CITY OF GRAND JUNCTION LINDEN AVE WATERLINE PHASE 1 IMPROVEMENTS GRAND JUNCTION, COLORADO **BID SET ADDENDUM #1** <u>CONTACTS</u>

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ENGINEER:

SURVEYOR:

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GLENWOOD SPRINGS, CO 81601

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WHS, INC

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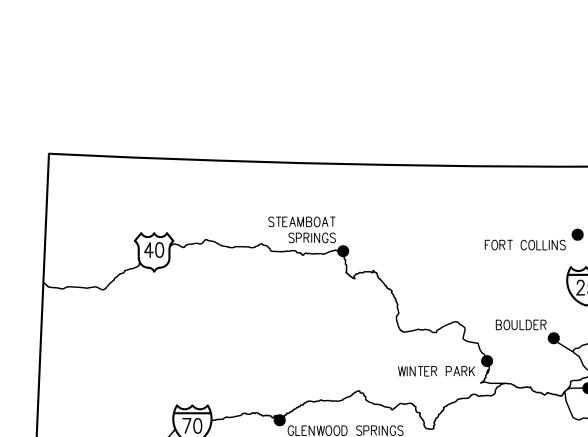
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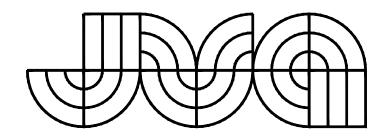
1048 INDEPENDENT AVE, SUITE A207 (970) 257-9101



GRAND JUNCTION

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DESCRIPTION REVISION A REVISION A REVISION A REVISION A	<u>_DATE</u>	DRAWN BY <u>ZCF/NLM</u> DESIGNED BY <u>ZCF/AMF</u> CHECKED BY <u>JJM</u> APPROVED BY	_ DATE <u>01/10/2025</u>	SCALES: PLAN & PROFILE

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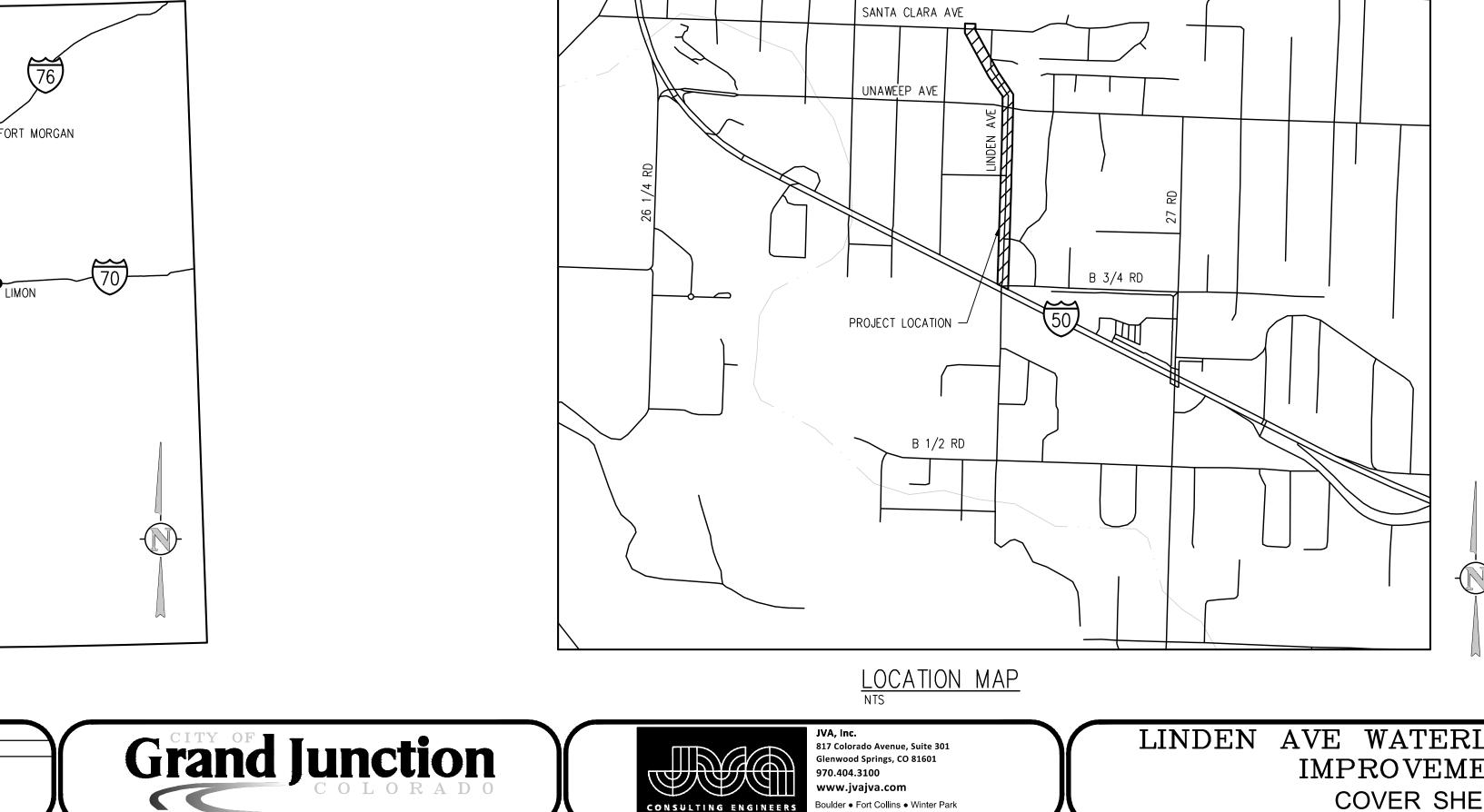


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JANUARY 2025

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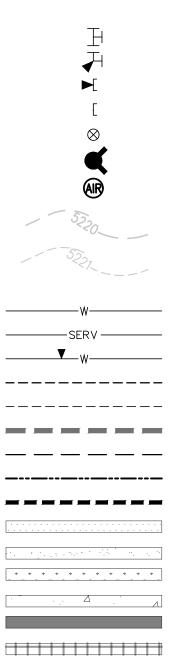
LINDEN AVE WATERLINE PHASE IMPROVEMENTS COVER SHEET

ABBREVIATIONS

	ABB	REVIAIIO	JNS		
AASHTO	AMERICAN ASSOC. OF STATE HIGHWAY AND	G	GAS	QTY	QUANTITY
AASITTO	TRANSPORTATION OFFICIALS	GA	GAUGE	R	RIGHT
ABAN	ABANDON	GAL	GALLON	RAD	RADIUS
AC	ASPHALTIC CONCRETE PAVING	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
ADDL	ADDITIONAL	GCO	GRADE CLEANOUT	RD	ROOF DRAIN
ADDM	ADDENDUM	GIP	GALVANIZED IRON PIPE	RE	REFERENCE
ADJ	ADJUSTABLE	GND	GROUND	RECT	RECTANGULAR
AL		GPD	GALLONS PER DAY	REINF	REINFORCE (D) (ING) (MENT)
ALT AMT	ALTERNATE AMOUNT	GPM GR	GALLONS PER MINUTE GRATE	REQD ROW	REQUIRED RIGHT OF WAY
APPROX	APPROXIMATE	GRTG	GRATING	RUW	RIGHT OF WAT
ARCH	ARCHITECT(URAL)	GSP	GALVANIZED STEEL PIPE	SAN	SANITARY
ARV	AIR RELIEF VALVE	GV	GATE VALVE	SC	SAWCUT
ASTM	AMERICAN SOCIETY FOR TESTING AND			SD	STORM DRAIN
	MATERIALS	Н	HIGH	SECT	SECTION
ASPH	ASPHALT	HB	HOSE BIB	SPD	STANDARD PROCTOR DENSITY
ASSY	ASSEMBLY	HE	HORIZONTAL ELLIPTICAL	SPEC	SPECIFICATION
ASYM	ASYMMETRICAL	HDWL	HEADWALL	SQ	SQUARE
AUTO	AUTOMATIC	HNDRL HORIZ	HAND RAIL HORIZONTAL	SQ IN	SQUARE INCH
AVG	AVERAGE	HORIZ	HIGH POINT	SQ FT SQ YD	SQUARE FOOT SQUARE YARD
AWWA	AMERICAN WATER WORKS ASSOC.	HR	HOUR	SS	SANITARY SEWER
BC	BACK OF CURB	HVAC	HEATING, VENTILATION, AIR	SST	STAINLESS STEEL
BFV	BUTTERFLY VALVE		CONDITIONING	STA	STATION
BG	FINISHED GRADE ADJACENT TO BOTTOM OF	HWY	HIGHWAY	STD	STANDARD
	WALL	HWL	HIGH WATER LINE	STL	STEEL
BLDG	BUILDING	ΗYD	HYDRANT	STRUCT	STRUCTURAL
BLK	BLOCK			SVC	SERVICE
BM	BENCH MARK			SWMP	STORMWATER MANAGEMENT PLAN
BMP	BEST MANAGEMENT PRACTICE	ID IN	INSIDE DIAMETER INLET	SYM	SYMMETRICAL
BS	BACKSIGHT POTTOM OF STEP	IN INSUL	INLET	TB	THRUST BLOCK
BOS BOT	BOTTOM OF STEP BOTTOM	INSUL	INVERT	TBC	TOP BACK OF CURB
BSMT	BASEMENT	IRR	IRRIGATION	TBM	TEMPORARY BENCH MARK
BVCE	BEGIN VERTICAL CURVE ELEVATION			TEMP	TEMPORARY
BVCL	BEGIN VERTICAL CURVE STATION	JTS	JOINTS	TG	FINISHED GRADE ADJACENT TO TOP
BW	BOTTOM OF WALL				OF WALL
		KO	KNOCKOUT	THK	THICK
CB	CATCH BASIN	KPL	KICK PLATE	TOB	TOP OF BANK
CCW	COUNTER CLOCKWISE	KWY	KEYWAY	TOC	TOP OF CONCRETE OR TOP OF CURB
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION		LEFT OR LITER	TOS	TOP OF STEP TOTAL
CIP	CAST IRON PIPE	L LSCAPE	LANDSCAPE(ING)	TOT T W	TOP OF WALL OR CAP OF WALL
CJ CL	CONSTRUCTION JOINT CENTER LINE OR CHAIN LINK	LSCAPE	LINEAR FOOT	TYP	TYPICAL
CLR	CLEAR	LP	LOW POINT OR LIGHT POLE		
CMP	CORRUGATED METAL PIPE	LT	LIGHT	UBC	UNIFORM BUILDING CODE
CMU	CONCRETE MASONRY UNIT	LWL	LOW WATER LEVEL	UGE	UNDERGROUND ELECTRIC
CO	CLEANOUT			UTIL	UTILITY
CONC	CONCRETE	MAINT	MAINTENANCE	VERT	VERTICAL
CONST	CONSTRUCTION	MAN	MANUAL	VC	POINT OF VERTICAL CURVATURE
CONT	CONTINUOUS(ATION)	MATL	MATERIAL	VCP	VITRIFIED CLAY PIPE
COR	CORNER	MAX	MAXIMUM	W	WIDE OR WIDTH
CR	CONCENTRIC REDUCER	ME MECH	MATCH EXISTING MECHANICAL	W/	WITH
CTR CY	CENTER CUBIC YARDS	MEP	MECHANICAL, ELECTRICAL,	w/o	WITH
CI	CUDIC TARUS		PLUMBING (ARCH)	WQCV	WATER QUALITY CONTROL VOLUME
DEMO	DEMOLITION	MFR	MANUFACTURER	WSE	WATER SURFACE ELEVATION
DET	DETAIL	MH	MANHOLE	WW	WASTEWATER
DIA	DIAMETER	MIN	MINIMUM		
DIAG	DIAGONAL	MISC	MISCELLANEOUS	X	SECT CROSS SECTION
DIP	DUCTILE IRON PIPE	MJ	MECHANICAL JOINT	XFMR	ELECTRICAL TRANSFORMER
DOM	DOMESTIC	N		VU	
DN DR	DOWN DRAIN	N NA	NORTH NOT APPLICABLE	YH	YARD HYDRANT
DR DWG	DRAIN DRAWING	NA NIC	NOT APPLICABLE		
DWG	DOWEL	NPT	NATIONAL PIPE THREAD		
5 ML	55112E	NTS	NOT TO SCALE		
E	EAST				
EA	EACH	OS	OFFSET		
ECC	ECCENTRIC	OC	ON CENTER		
EJ	EXPANSION JT	OD	OUTSIDE DIAMETER		
EL	ELEVATION	OPP	OPPOSITE		
ELB	ELBOW	OPT	OPTIONAL		
ELEC ENGR	ELECTRICAL ENGINEER	PC	POINT OF CURVATURE		
ENGR EOP	ENGINEER EDGE OF PAVEMENT	PC PCO	PRESSURE CLEAN OUT		
EQ	EQUAL	PCR	POINT OF CURVE RETURN		
EQUIP	EQUIPMENT	PI	POINT OF INTERSECTION		
EQUIV	EQUIVALENT	PVI	POINT OF VERTICAL		
ESMT	EASEMENT	_	INTERSECTION		
EST	ESTIMATE	PL	PROPERTY LINE		
EVCE	END VERTICAL CURVE ELEVATION	PE	POLYETHYLENE		
EVCS	END VERTICAL CURVE STATION				
EW	EACH WAY	PRELIM PREP	PRELIMINARY PREPARATION		
EXP EXIST	JT EXPANSION JOINT EXISTING	PROP	PROPOSED		
LVIDI		PRV	PRESSURE REDUCING VALVE		
FND	FOUNDATION	4 1 X V	OR PRESSURE RELIEF VALVE		
FES	FLARED END SECTION	PSF	POUNDS PER SQUARE FOOT		
FF	FINISH FLOOR	PSI	POUNDS PER SQUARE INCH		
FG	FINISH GRADE	PT	POINT OF TANGENCY		
FH	FIRE HYDRANT	PV	PLUG VALVE		
FL	FLOW LINE	PVC	POLYVINYL CHLORIDE OR		
FN	FENCE		POINT OF VERTICAL		
FOC	FACE OF CONCRETE	PVMT	CURVATURE PAVEMENT		
FPM FPS	FEET PER MINUTE FEET PER SECOND				
FPS FT	FEET				
FTG	FOOTING OR FITTING				
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_DESCRIPTION	<u>DATE</u>		/NLM	2025 SCALES:
REVISION A	_			PLAN & PROFILE
	_	DESIGNED BY <u>ZCF/</u>	/AMF DATE	2025_
REVISION A		CHECKED BYJM	DATE <u>01/10/</u>	2025
REVISION \mathbb{A}		APPROVED BY	DATE	

DESIGN LEGEND



TEE W/ KICK BLOCK **BEND W/ KICK BLOCK** END CAP W/ KICK BLOCK WATERLINE PLUG/CAP GATE VALVE FIRE HYDRANT AIR RELEASE VALVE EXIST INDEX CONTOUR EXIST INTERMEDIATE CONTOUR WATER LINE WATER SERVICE LINE WATER LINE WITH GROUT INJECTION PORT LIMITS OF SAWCUT LIMITS OF TRENCH LIMITS OF WORK EASEMENT LINE PROPERTY LINE MATCHLINE ASPHALT PAVING GRAVEL LANDSCAPING CONCRETE PAVING BLUEBOARD INSULATION

INTERSECTION CLOSURE HATCH



Know what's **below**. **Call** before you dig

SURVEY LEGEND

W-	w	W
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SS		— SS ———
—— FM —	FM	— FM ———
—— SD —		— SD ———
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	(m)	
	MB	

WATER LINE
WATER VALVE
WATER METER
FIRE HYDRANT
SANITARY SEWER LINE
SANITARY FORCE MAIN
STORM DRAINAGE LINE
MANHOLE
CURB INLET
UNDERGROUND ELECTRICAL LINE
OVERHEAD ELECTRICAL LINE
ELECTRICAL POLE
GUY WIRE
ELECTRICAL TRANSFORMER
ELECTRICAL RISER
ELECTRIC VAULT
LIGHT POLE
DECORATIVE LIGHT
FIBEROPTIC LINE
TELEPHONE LINE
TELEPHONE RISER
GAS LINE
INDICATION OF ACCESS
BUILDING
UTILITY LOCATED FROM MAP
MAILBOX
SIGN

NOTE: SHADED ITEMS REPRESENT EXIST FEATURES

- CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.

- WWW.UNCC.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
- BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- FINISHED GRADE ELEVATIONS.
- EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.

- RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- THE PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED TO CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- GRADES TO BE RAISED ONE-HALF INCH AT ASPHALT/CONCRETE (OR 1" AT LANDSCAPING) TO PROVIDE POSITIVE DRAINAGE AWAY FROM FEATURES.

18. SURVEY INFORMATION:

BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY THE CITY OF GRAND JUNCTION. SEE EXISTING CONDITIONS SURVEY 2021 WATER LINE REPLACEMENTS - PHASE 1 DATED 12/20/2021. CONTROL POINTS SHOWN ON PLANS. THE FIELD SURVEYS AND PROCESSING OF DATA WAS MADE IN THE MESA COUNTY LOCAL COORDINATE SYSTEM (MCLCS) GRAND VALLEY AREA (GVA) ZONE AND NAVD88 VERTICAL DATUM WITH GEOID 12A MODEL TO CONVERT ELLIPSOID HEIGHTS TO ORTHOMETRIC ELEVATIONS. THE MCLCS USED THE IN THE SAID WHS SURVEY ARE BASED UPON REFERENCE FROM:

MESA COUNTY CONTROL POINT P310 - PRECISION B-5PPM	ME
NORTH 28231.71 SFT (MCGVA)	
EAST 92054.57 SFT (MCGVA)	
NAVD 88, G12A ELEVATION: 4631.32 SFT	
LATITUDE: 39° 02' 47.60643" N	
LONGITUDE: 108° 33' 42.12299" W	
ELLIPSOID HEIGHT: 1394.760 METER	
COMMENT: NGS 9/16" STAINLESS STEEL ROD IN MONUMENT WELL	СС

- 18.4 SERVICE TAP LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RESTORING ALL SERVICE CONNECTIONS.
- 18.5 ALL SERVICE TAPS THAT DO NOT MEET A FOUR FOOT BURY DEPTH SHOULD BE INSULATED ACCORDING TO CITY STANDARDS.
- SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.



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GENERAL NOTES

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. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS. STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE GRAND JUNCTION FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY

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. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.

4. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987,

5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC. CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL

7. RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND

8. THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED. BY OTHERS, AT CRITICAL AREAS HYDRANT LATERALS AND SITE FEATURES, CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER'S REPRESENTATIVE. OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.

9. FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO

10. ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.

11. OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

12. PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS

13. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE

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", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR

15. ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE LESS THAN 1:48 (2.0%) PERPENDICULAR TO DIRECTION OF TRAVEL. RUNNING SLOPE OF ACCESSIBLE WALKS MUST BE NOT STEEPER THAN 1:20 (5.0%) IN DIRECTION OF TRAVEL MAXIMUM GRADE OF ACCESSIBLE CURB RAMPS AND RAMPS IS 1:12 (8.3%). CURB RAMPS SHALL PROVIDE A LANDING AT THE TOP AND RAMP RUNS PROVIDE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN AT A SLOPE NOT TO EXCEED 1:48. RAMPS RUNS EXCEEDING SIX INCHES SHALL INCLUDE HANDRAILS. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PLACEMENT OF FLATWORK OF SITE CONDITIONS OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL RAMPS, STAIRS, EDGE PROTECTION, AND RAILINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS. ACCESSIBLE CURB RAMPS SHALL CONFORM TO THE CDOT M-STANDARDS (SEE DETAIL M-608-1, ETC). ACCESSIBLE FEATURE WITHIN

16. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE

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. CLEANOUTS, JUNCTION BOXES, AND ADJACENT

MESA COUNTY CONTROL POINT P318 - PRECISION B-5PPM

NORTH 19671.32 SFT (MCGVA) EAST 110221.18 SFT (MCGVA) NAVD 88, G12A ELEVATION: 4793.43 SFT LATITUDE: 39° 01' 23.00622" N LONGITUDE: 108º 29' 51.95172" W ELLIPSOID HEIGHT: 1444.23 METERS COMMENT: NGS 9/16" STAINLESS STEEL ROD IN MONUMENT WELL

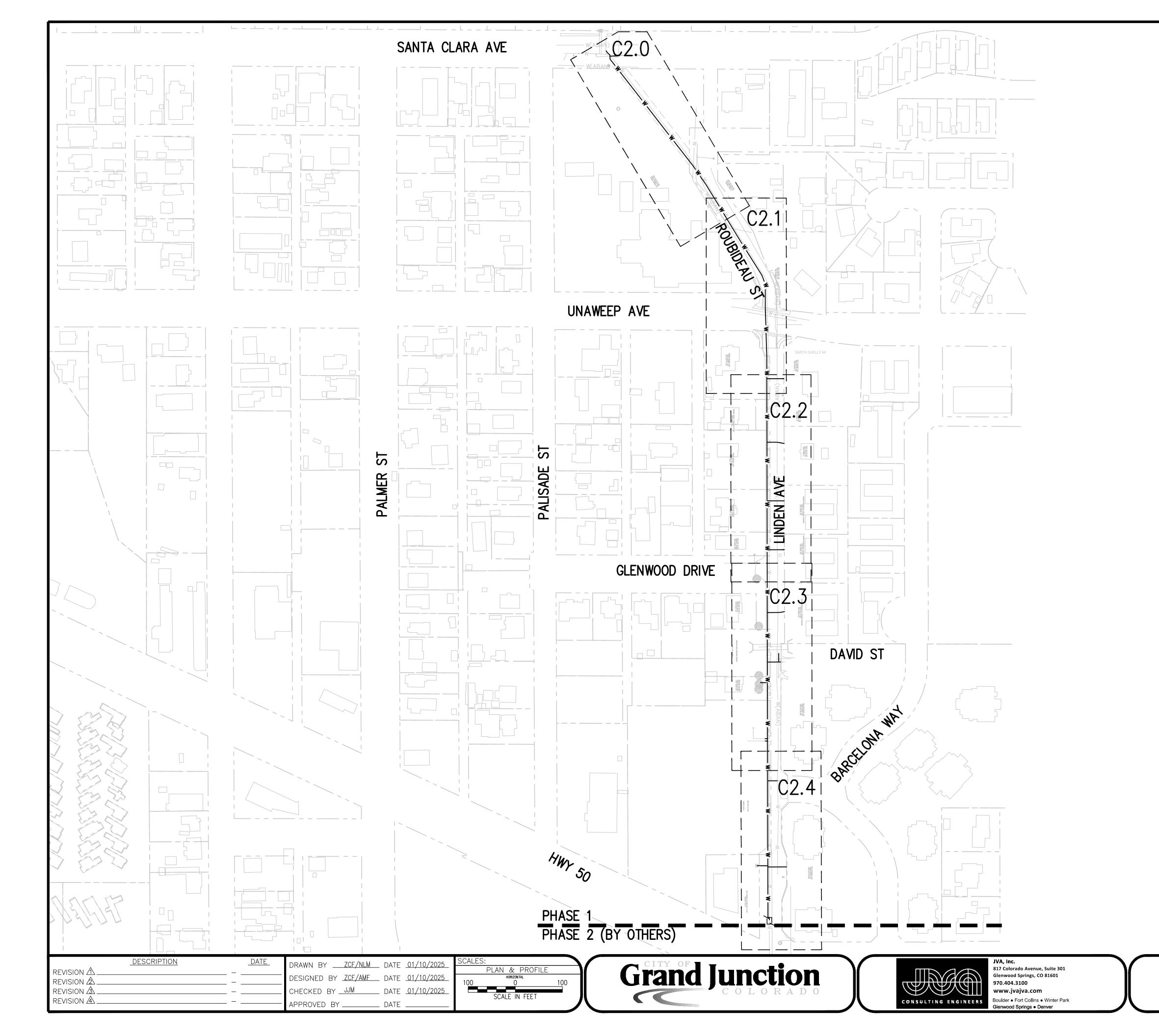
18.1 BEARINGS ARE BASED ON GRID NORTH OF THE MESA COUNTY LOCAL COORDINATE SYSTEM IN THE GVA ZONE, LOCALLY DETERMINED BY GNSS OBSERVATIONS ON THE SHOWN INTERIOR ALIQUOT CORNER MONUMENTS RECOVERED IN SECTION 18., TOWNSHIP 1 NORTH AT RANGE 1 EAST FOR ITS CENTER NORTH 1/16TH CORNER AND THE NORTH 1/4 CORNER AS HAVING A MEASURED BEARING OF N 0' 00' 57" E AND A MEASURED DISTANCE OF 1319.22. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.

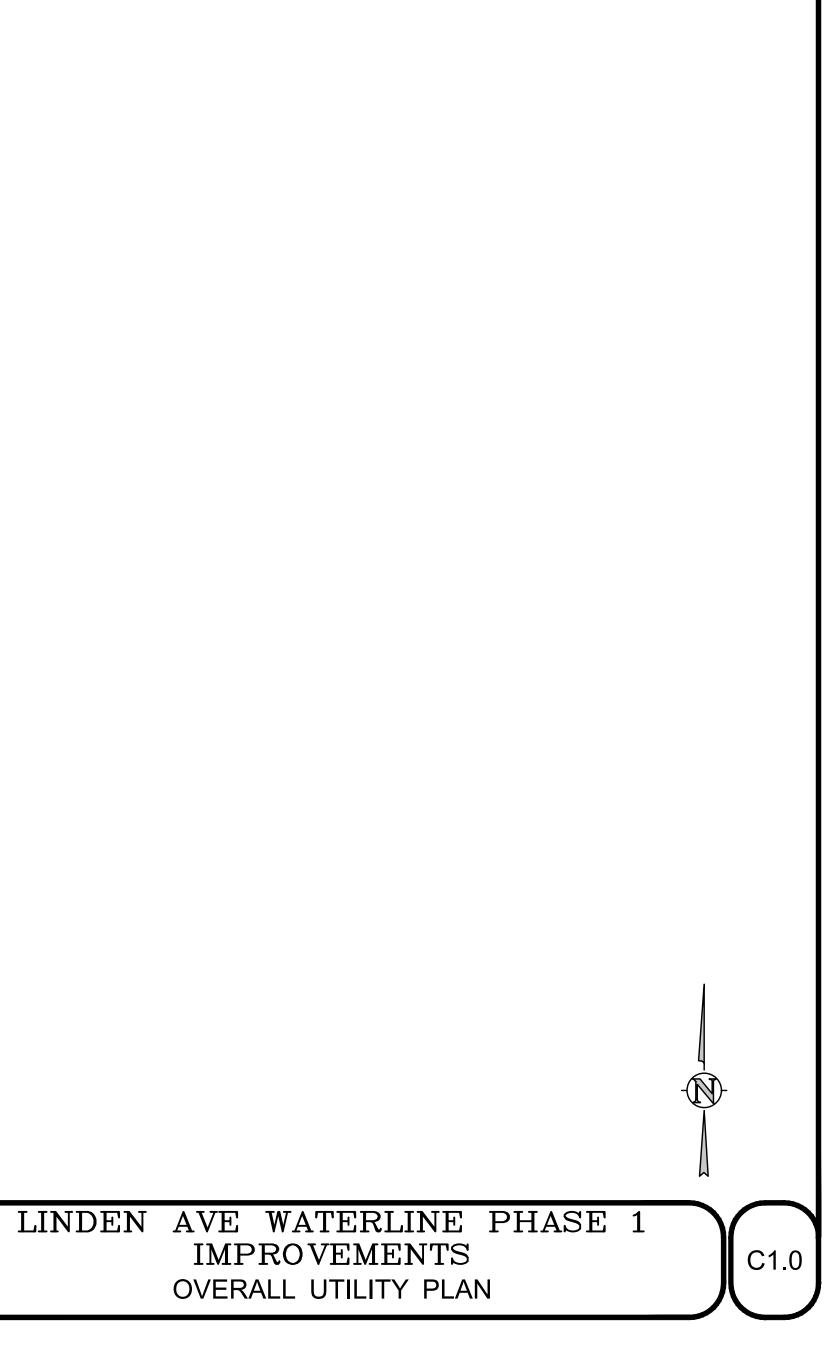
18.2 HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED ON SHEET C2.0 OF THE PLANS.

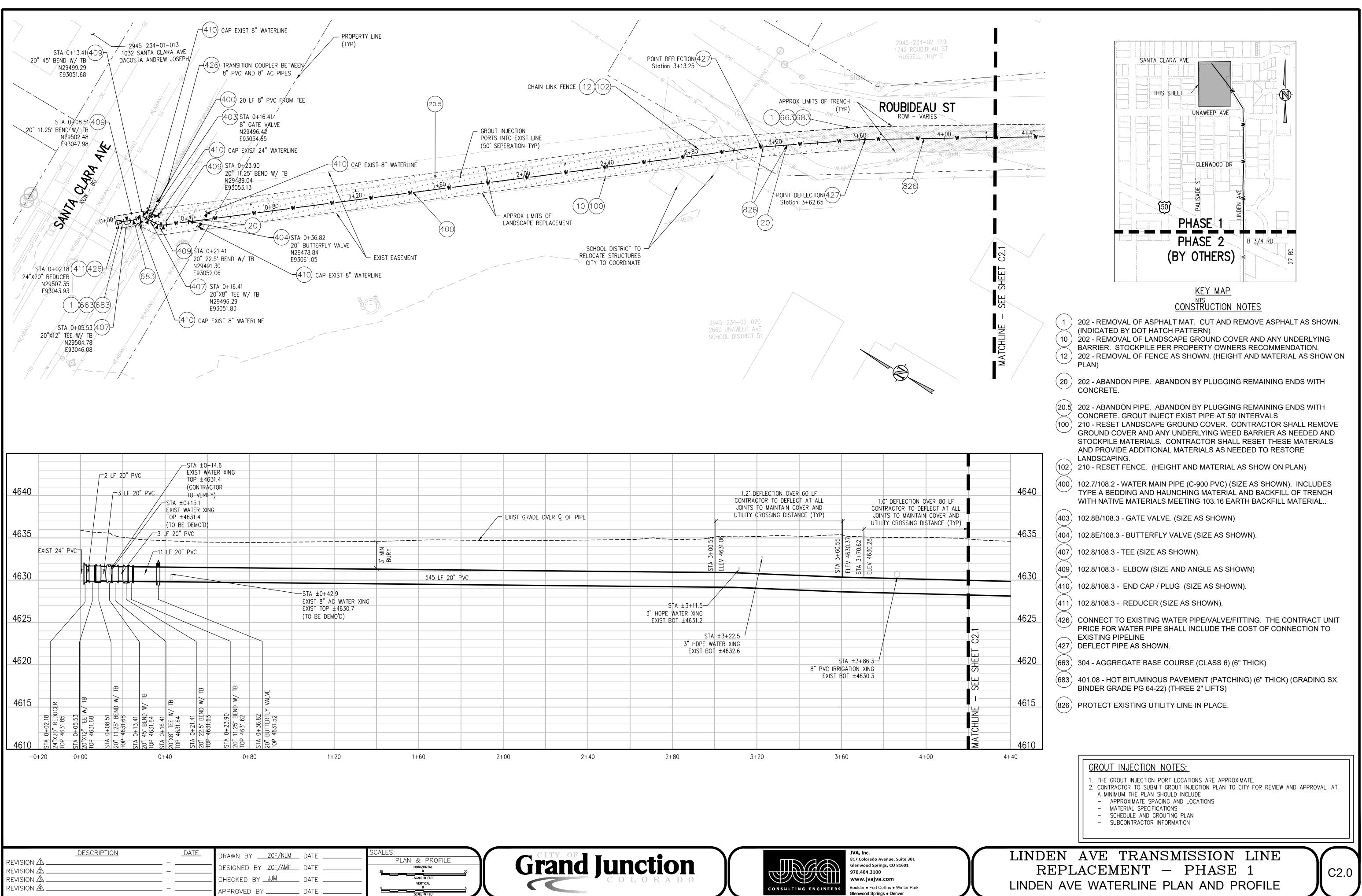
18.3 SURVEY UTILITY LOCATION INFORMATION PER THE SURVEYOR: SUBSURFACE UTILITIES ARE SHOWN IN APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS CONSISTENT WITH ASCE 38-02 QUALITY LEVEL "B" (INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. THE INFORMATION OBTAINED IN THIS MANNER IS SURVEYED TO PROJECT CONTROL.) AND QUALITY LEVEL "C" (INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D; INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS), AND BASED ON FIELD MEASUREMENTS PROVIDED BY THE OWNER AND THE CONTRACTOR. SUBSURFACE UTILITIES ARE NOT DEPICTED TO THE EXTENT SET FORTH IN ASCE 38-02 QUALITY LEVELS "A" (INFORMATION OBTAINED THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES.). TO THE EXTENT DEEMED NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY, POTHOLING OR OTHER PRECISE MAPPING MAY BE COMPLETED TO CONFIRM THE EXACT LOCATION OF ANY SUBSURFACE UTILITIES. NOTIFY OWNER AND ENGINEER WITH ALL UTILITY INFORMATION PRIOR TO CONSTRUCTION. VISIT HTTPS: //WWW.FHWA.DOT.GOV/PROGRAMADMIN/SUEINDEX.CFM FOR MORE INFORMATION.

19. THE CONTRACTOR AT THE CONTRACTORS EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS SURVEYED AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL

> LINDEN AVE WATERLINE PHASE IMPROVEMENTS LEGEND, NOTES, & ABBREVIATIONS



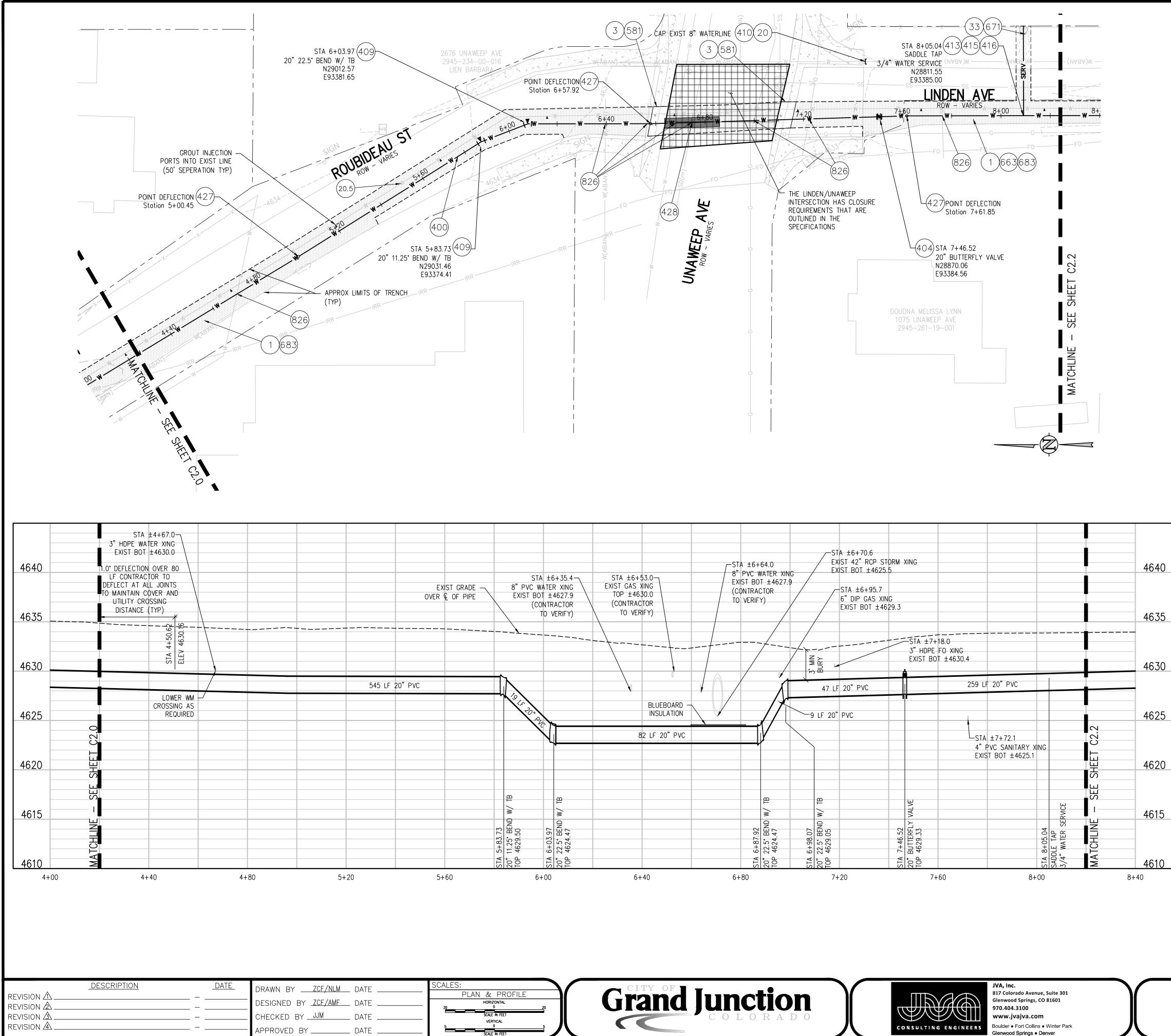


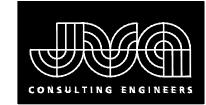


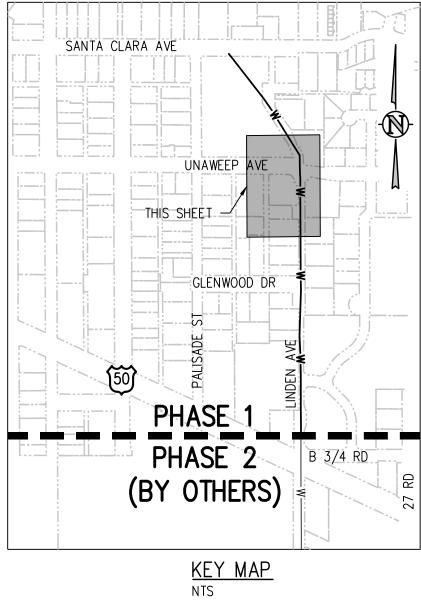
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REVISION \triangle	_			_ DATL	PLAN & PROFILE
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REVISION &	=		CHECKED BY JJM	_ DATE	SCALE IN FEET
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			APPROVED BY	_ DATE	SCALE IN FEET









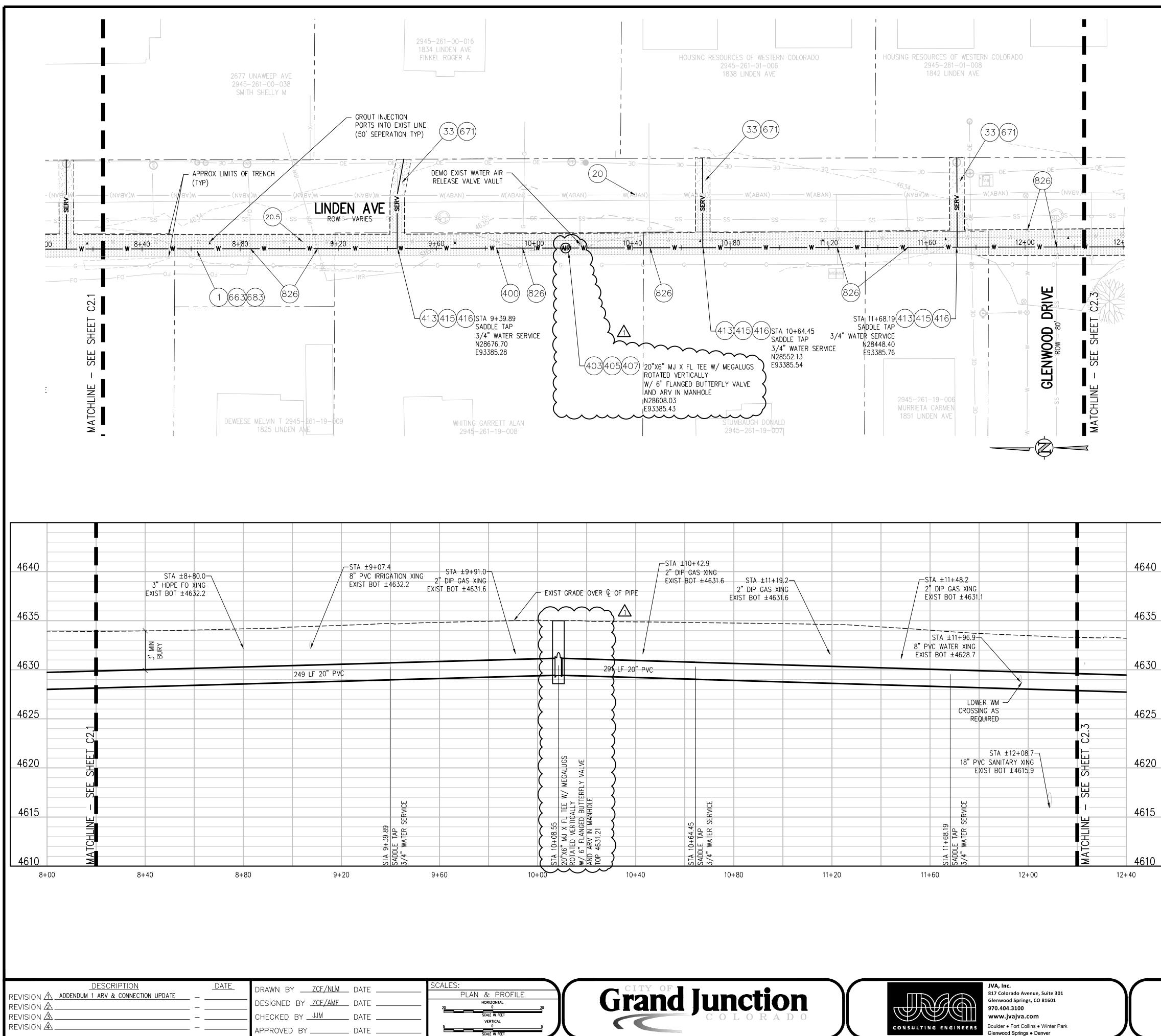


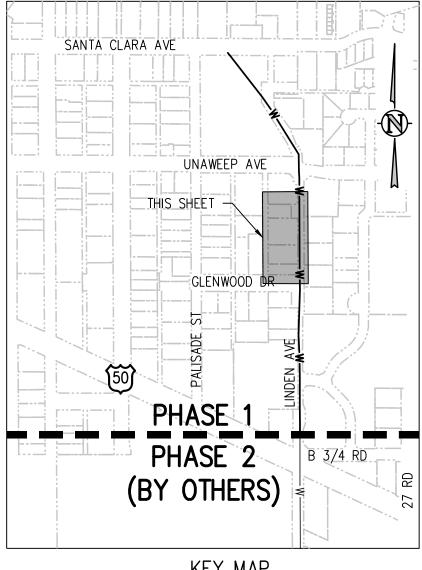
CONSTRUCTION NOTES

	202 - REMOVAL OF ASPHALT MAT. 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
20	CORNERS, APRONS, AND LANDSCAPE BORDERS. 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
20.5	202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE. GROUT INJECT EXIST PIPE AT 50' INTERVALS
33	REMOVAL OF EXISTING GRAVEL. STOCKPILE PER PROPERTY OWNERS RECOMMENDATION
400	102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
(404)	102.8E/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN).
(409)	102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
(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)
415	102.8K/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
(416)	102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
(427)	DEFLECT PIPE AS SHOWN.
(428)	02510 - BLUEBOARD INSULATION 10' ON EITHER SIDE OF CROSSING.
(581)	608.06 - CONCRETE DRAINAGE PAN (6' WIDE)
663	304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
671	304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
683	401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
826	PROTECT EXISTING UTILITY LINE IN PLACE.
<u>GR0</u>	UT INJECTION NOTES:
2. CO	E GROUT INJECTION PORT LOCATIONS ARE APPROXIMATE. NTRACTOR TO SUBMIT GROUT INJECTION PLAN TO CITY FOR REVIEW AND APPROVAL. AT A MINIMUM THE PLAN OULD INCLUDE APPROXIMATE SPACING AND LOCATIONS

- MATERIAL SPECIFICATIONS
 SCHEDULE AND GROUTING PLAN
 SUBCONTRACTOR INFORMATION

LINDEN AVE TRANSMISSION LINE REPLACEMENT - PHASE 1 LINDEN AVE WATERLINE PLAN AND PROFILE





KEY MAP

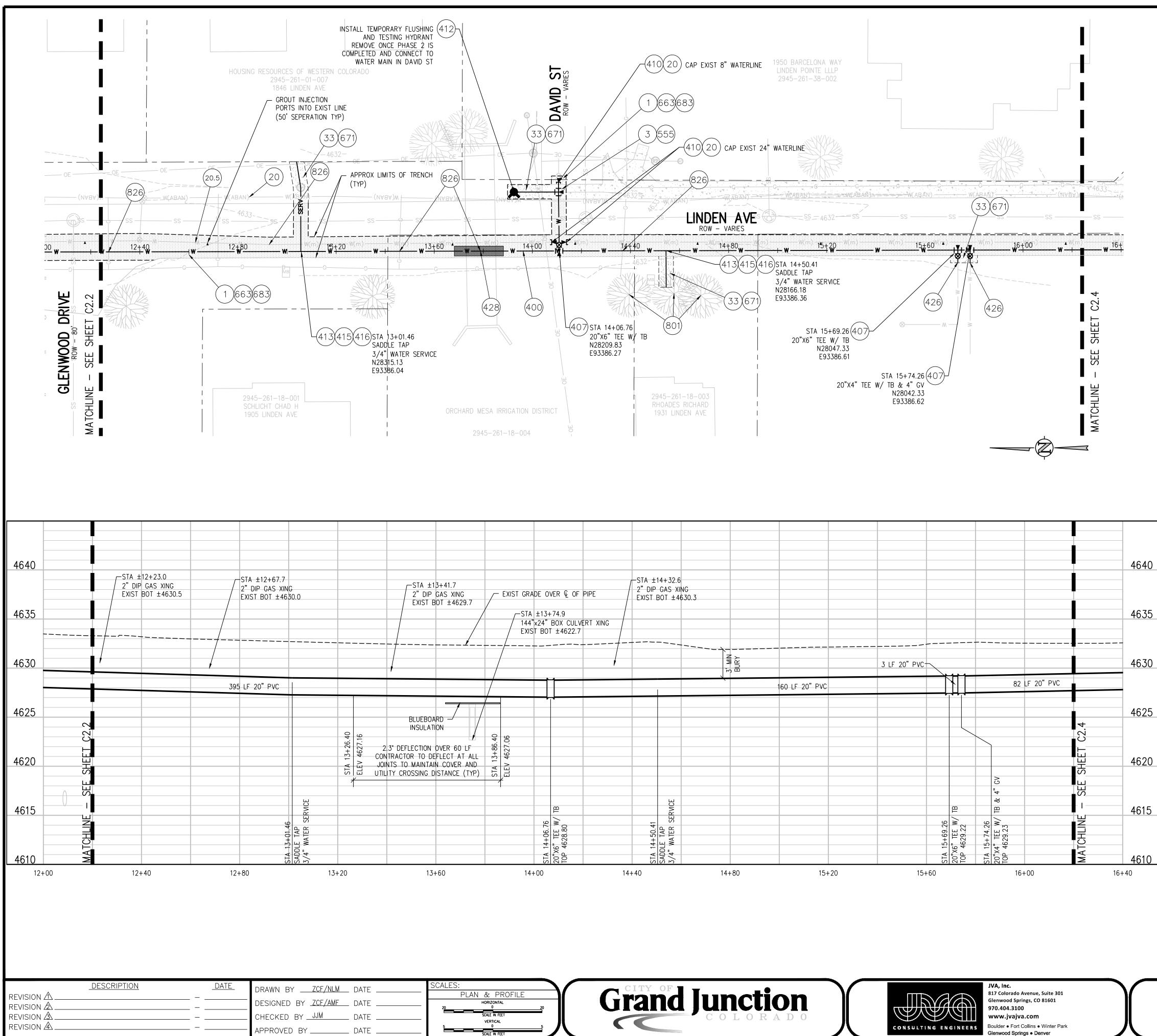
CONSTRUCTION NOTES

- 202 REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED 1) BY DOT HATCH PATTERN)
- (20) 202 ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- (20.5) 202 ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE GROUT INJECT EXIST PIPE AT 50' INTERVALS
- (33) REMOVAL OF EXISTING GRAVEL. STOCKPILE PER PROPERTY OWNERS RECOMMENDATION
- (400) 102.7/108.2 WATER MAIN PIPE (C-900 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)
- (405) 102.8G/102.8H/108.3 AIR VALVE AND MANHOLE.
- (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)
- (415) 102.8K/108.4 TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- (416) 102.8J/108.4 CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- (663) 304 AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- (671) 304 WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- (683) 401.08 HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
- (826) PROTECT EXISTING UTILITY LINE IN PLACE.

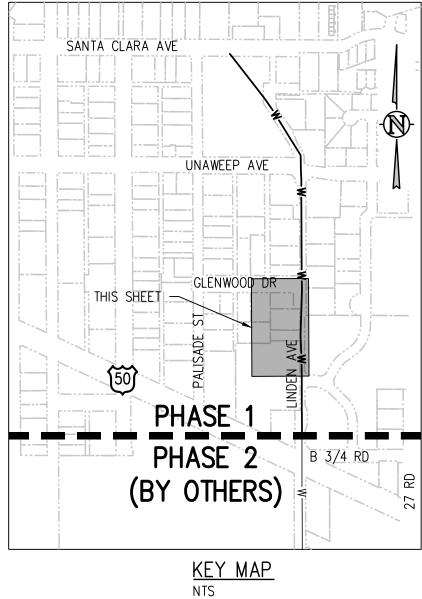
GROUT INJECTION NOTES:

- THE GROUT INJECTION PORT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO SUBMIT GROUT INJECTION PLAN TO CITY FOR REVIEW AND APPROVAL. AT A MINIMUM THE PLAN SHOULD INCLUDE
- APPROXIMATE SPACING AND LOCATIONS MATERIAL SPECIFICATIONS
- SCHEDULE AND GROUTING PLAN
- SUBCONTRACTOR INFORMATION

LINDEN AVE TRANSMISSION LINE REPLACEMENT - PHASE 1 LINDEN AVE WATERLINE PLAN AND PROFILE







CONSTRUCTION NOTES

202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED

- 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. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE. 20.5) 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE. **GROUT INJECT EXIST PIPE AT 50' INTERVALS** (33) REMOVAL OF EXISTING GRAVEL. STOCKPILE PER PROPERTY OWNERS RECOMMENDATION (400) 102.7/108.2 - WATER MAIN PIPE (C-900 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). (412) 102.8A/108.3 - FIRE HYDRANT (413) 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) (415) 102.8K/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- (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
- (428) 02510 BLUEBOARD INSULATION 10' ON EITHER SIDE OF CROSSING.
- (663) 304 AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- (671) 304 WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- (683) 401.08 HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
- (801) PROTECT TREE.
- (826) PROTECT EXISTING UTILITY LINE IN PLACE.

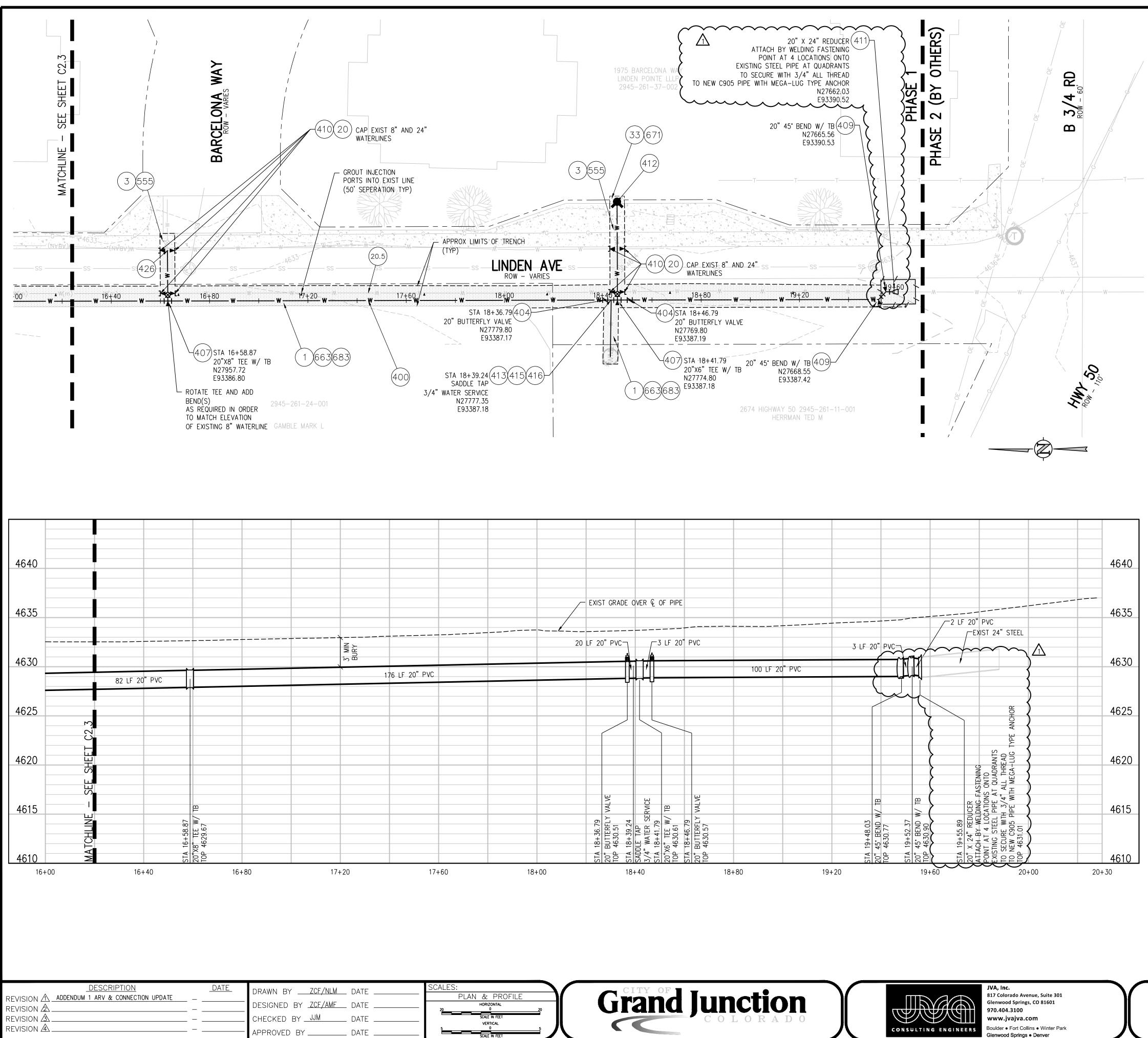
GROUT INJECTION NOTES:

BY DOT HATCH PATTERN)

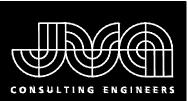
- THE GROUT INJECTION PORT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO SUBMIT GROUT INJECTION PLAN TO CITY FOR REVIEW AND APPROVAL. AT A MINIMUM THE PLAN SHOULD INCLUDE - APPROXIMATE SPACING AND LOCATIONS
- MATERIAL SPECIFICATIONS
- SCHEDULE AND GROUTING PLAN
- SUBCONTRACTOR INFORMATION

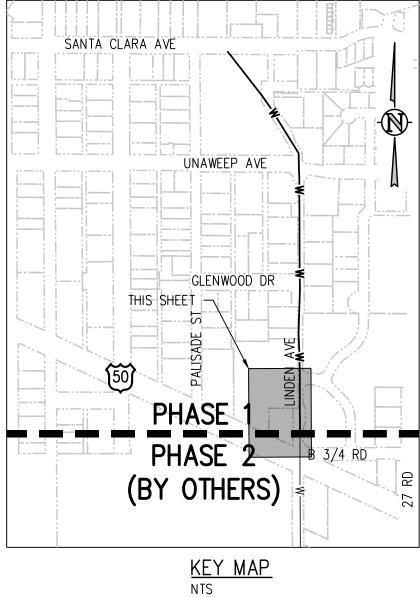
LINDEN AVE TRANSMISSION LINE REPLACEMENT - PHASE 1 LINDEN AVE WATERLINE PLAN AND PROFILE

C2.3









CONSTRUCTION NOTES 202 - REMOVAL OF ASPHALT MAT. 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. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE. (20.5) 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE. GROUT INJECT EXIST PIPE AT 50' INTERVALS (33) REMOVAL OF EXISTING GRAVEL. STOCKPILE PER PROPERTY OWNERS RECOMMENDATION (400) 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. (404) 102.8E/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN). (410) 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN) (411) 102.8/108.3 - REDUCER (SIZE 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) (415) 102.8K/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN) (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 (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK) (671) 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX. (683) 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS) (826) PROTECT EXISTING UTILITY LINE IN PLACE. **GROUT INJECTION NOTES:** THE GROUT INJECTION PORT LOCATIONS ARE APPROXIMATE. 2. CONTRACTOR TO SUBMIT GROUT INJECTION PLAN TO CITY FOR REVIEW AND APPROVAL. AT A MINIMUM THE PLAN SHOULD INCLUDE

- APPROXIMATE SPACING AND LOCATIONS
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LINDEN AVE TRANSMISSION LINE REPLACEMENT - PHASE 1 LINDEN AVE WATERLINE PLAN AND PROFILE

C2.4