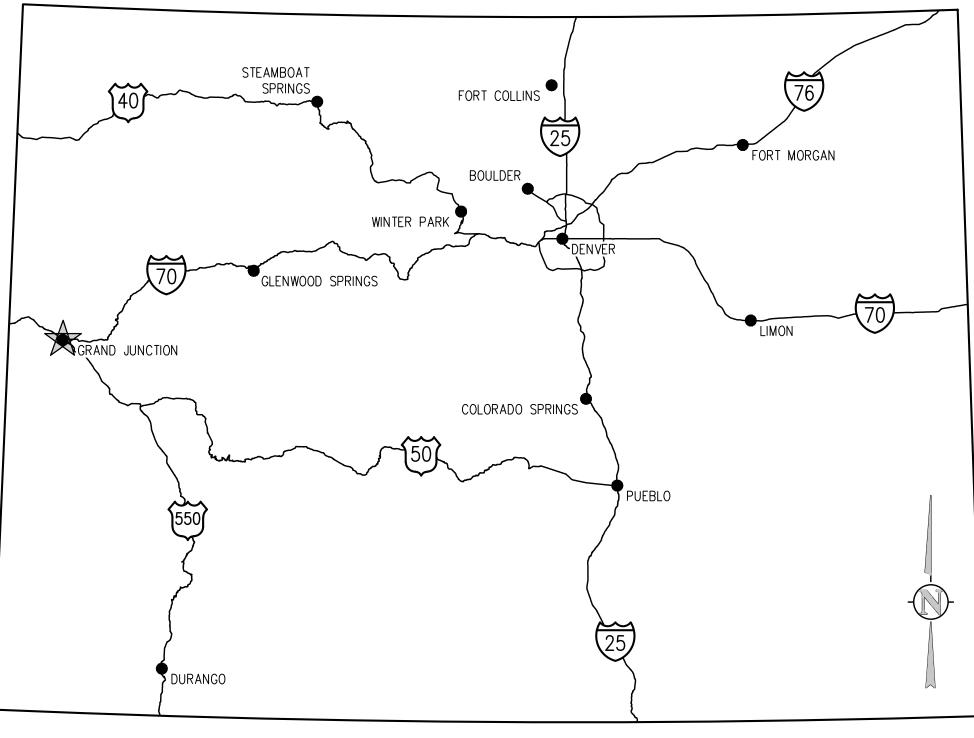
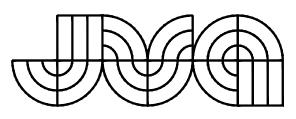
CITY OF GRAND JUNCTION 12TH ST AND WELLINGTON AVE SEWER REPLACEMENT GRAND JUNCTION, CO **BID SET** DRAWING INDEX

<u>CONTACTS</u>

OWNER:	CITY OF GRAND JUNCTION 333 WEST AVENUE, BUILDING C GRAND JUNCTION, CO 81501	TOBY THIEMAN (970) 244–1559 TOBYT@GJCITY.ORG
ENVIRONMENTAL ENGINEER:	JVA, INC 817 COLORADO AVENUE, SUITE 301 GLENWOOD SPRINGS, CO 81601	COOPER BEST, P.E. (970) 404–3003 CBEST@JVAJVA.COM
SURVEYOR:	CITY OF GRAND JUNCTION ENGINEERING AND TRANSPORTATION DEPARTMENT 244 NORTH 7TH STREET GRAND JUNCTION, CO 81501	RENEE PARENT, P.E, P.L.S (970) 256–4003 RENEEP@GJCITY.ORG



<u>VICINITY MAP</u>

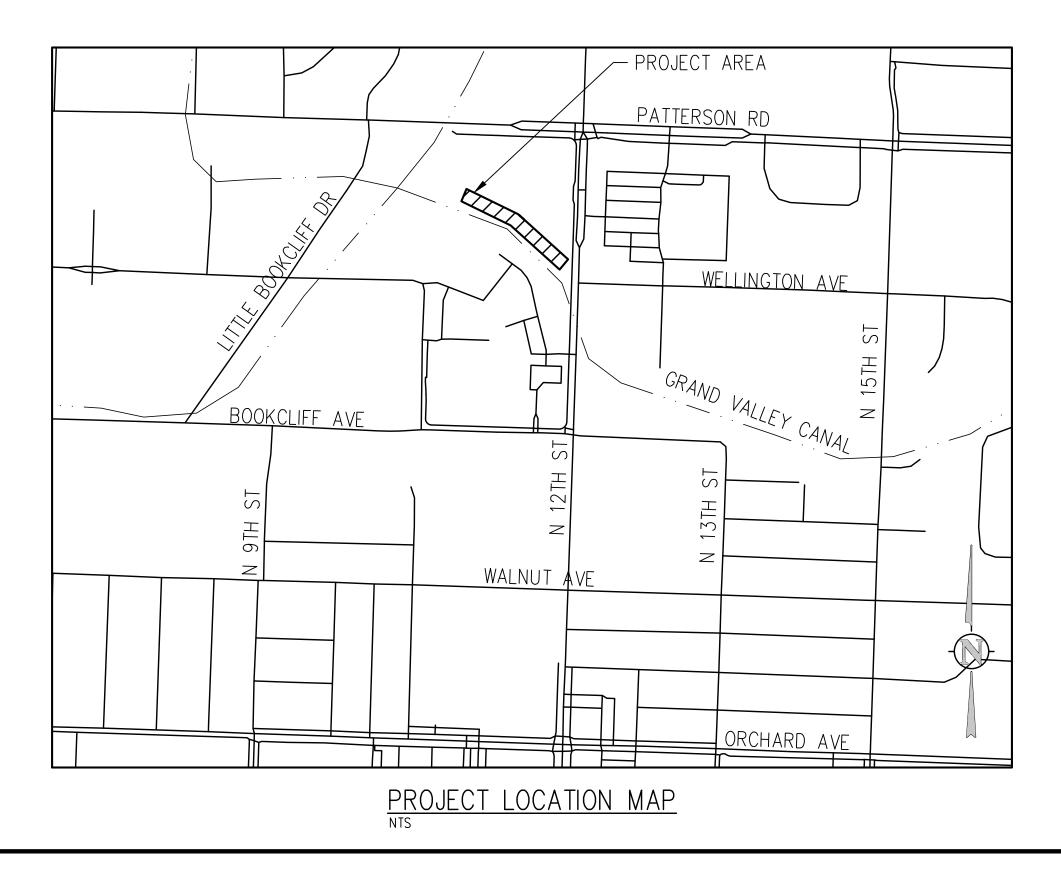


CONSULTING ENGINEERS JVA, Inc. 817 Colorado Ave., Suite 301 Glenwood Springs, CO Zip 81601 970.404.3100 www.jvajva.com Boulder • Fort Collins • Winter Park Glenwood Springs • Denver

JUNE 2024

PREPARED UNDER THE SUPERVISION OF

JVA, Inc.



<u>SHEET NO.</u>	<u>TITLE</u>
G0.0	COVER PAGE
G0.1	LEGEND, NOTES AND ABBREVIATIONS
C1.0	OVERALL UTILITY PLAN
C2.0	SANITARY SEWER PLAN AND PROFILE
C2.1	SANITARY SEWER PLAN AND PROFILE

	<u>ABBI</u>	REVIATIO	<u>ONS</u>		
AASHTO ABAN 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 CO CONC CONST CONT CONT CONT CONT CONT CONT CONT CON	AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS ABANDON ASPHALTIC CONCRETE PAVING ADDITIONAL ADDENDUM ADJUSTABLE ALUMINUM ALUSTABLE ALUMINUM ALTERNATE AMOUNT APPROXIMATE ARCHITECT(URAL) AIR RELIEF VALVE AMERICAN SOCIETY FOR TESTING AND MATERIALS ASPHALT ASSEMBLY ASSEMBLY ASSEMBLY ASSEMBLY ASSEMBLY ASSEMBLY ASSEMBLY ASSEMBLY BUTTERFLY VALVE FINISHED GRADE ADJACENT TO BOTTOM OF WALL BUILDING BLOCK BENCH MARK BEST MANAGEMENT PRACTICE BACKSIGHT BOTTOM OF STEP BOTTOM BASEMENT BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE ELEVATION BCON TER CLOCKWISE COLORADO DEPARTMENT OF TRANSPORTATION CAST IRON PIPE CONSTRUCTION JOINT CENTER LINE OR CHAIN LINK CLEAR CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEAROUT CONCRETE CONCENTIC REDUCER CENTER CUBIC YARDS DEMOLITION DETAIL DIAMETER DIAGONAL DUCTILE IRON PIPE DOMESTIC DOWN DRAIN	G GA GAL GALV GCO GIP GND GPD GPM GR GRTG GSP GV H HB HE HDWL HNDRL HP HR HVAC HWY HWL HYD INCL ID IN INSUL IN IN SUL IN SUN SUN SUN SUN SUN SUN SUN SUN SUN SU	GAS GAUGE GALLON GALVANIZED GRADE CLEANOUT GALVANIZED IRON PIPE GROUND GALLONS PER DAY GALLONS PER MINUTE GRATE GRATING GALVANIZED STEEL PIPE GATE VALVE HIGH HOSE BIB HORIZONTAL ELLIPTICAL HEADWALL HAND RAIL HORIZONTAL ELLIPTICAL HEATING, VENTILATION, AIR CONDITIONING HIGH WATER LINE HYDRANT INCLUDED INSIDE DIAMETER INLET INSULATION INVERT IRRIGATION JOINTS KNOCKOUT KICK PLATE KEYWAY LEFT OR LITER LANDSCAPE(ING) LINEAR FOOT LOW POINT OR LIGHT POLE LIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM MATCH EXISTING MECHANICAL, ELECTRICAL, PLUMBING (ARCH) MANUFACTURER MANUAL MATCH ADDI MANUFACTURER MANUAL MATCH ZISTING MECHANICAL JOINT NORTH NOT APPLICABLE	QTY RAD RCP RD RE RECT REINF REQD SO SD SECT SPD SQ IN SQ FT SQ YD SS STA STD STL STRUCT SVC SWMP SYM TB TBC TBM TEMP TG THK TOB TOC TOS TOT TW TYP UBC UGE UTIL VC VCP W W/WO WQCV WSE WW X XFMR YH	QUANTITY RIGHT RADIUS REINFORCED CONCRETE PIPE ROOF DRAIN REFERENCE RECTANGULAR REINFORCE (D) (ING) (MENT) REQUIRED RIGHT OF WAY SANITARY SAWCUT STORM DRAIN SECTION STANDARD PROCTOR DENSITY SPECIFICATION SQUARE SQUARE INCH SQUARE FOOT SQUARE YARD SANITARY SEWER STAINLESS STEEL STATION STANDARD STEEL STRUCTURAL SERVICE STORMWATER MANAGEMENT PL SYMMETRICAL THRUST BLOCK TOP BACK OF CURB TEMPORARY BENCH MARK TEMPORARY FINISHED GRADE ADJACENT TO OF WALL THICK TOP OF BANK TOP OF BANK TOP OF BANK TOP OF CONCRETE OR TOP OF TOTAL TOP OF WALL OR CAP OF WA TYPICAL UNIFORM BUILDING CODE UNDERGROUND ELECTRIC UTILITY VERTICAL POINT OF VERTICAL CURVATUF VITRIFIED CLAY PIPE WIDE OR WIDTH WITH WITH WITH WITH WITH WITHOUT WASTEWATER SECT CROSS SECTION ELECTRICAL TRANSFORMER YARD HYDRANT
DWG DWL E EA ECC EJ EL ELB ELEC ENGR EOP EQ EQUIP EQUIV ESMT EST EVCE EVCS EW EXP EXIST FND FES FF FG FH FL FN FOC FPM FPS FT FTG	DRAWING DOWEL EAST EACH ECCENTRIC EXPANSION JT ELEVATION ELBOW ELECTRICAL ENGINEER EDGE OF PAVEMENT EQUIPMENT EQUIPMENT EQUIVALENT EASEMENT ESTIMATE END VERTICAL CURVE ELEVATION END VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION EACH WAY JT EXPANSION JOINT EXISTING FOUNDATION FLARED END SECTION FINISH GRADE FIRE HYDRANT FLOW LINE FENCE FACE OF CONCRETE FEET PER MINUTE FEET PER SECOND FEET FOOTING OR FITTING	NIC NPT NTS OS OC OD OPP OPT PC PCO PCR PI PVI PL PE PREFAB PRELIM PREP PROP PRV PSF PSI PT PV PVC PVMT	NOT IN CONTRACT NATIONAL PIPE THREAD NOT TO SCALE OFFSET ON CENTER OUTSIDE DIAMETER OPPOSITE OPTIONAL POINT OF CURVATURE PRESSURE CLEAN OUT POINT OF CURVE RETURN POINT OF CURVE RETURN POINT OF INTERSECTION POINT OF VERTICAL INTERSECTION PROPERTY LINE POLYETHYLENE PREFABRICATED PRELIMINARY PREPARATION PROPOSED PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE POUNDS PER SQUARE INCH POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE PAVEMENT		

RENCE ANGULAR FORCE (D) (ING) (MENT) IRFD OF WAY TAR۱ M DRAIN DARD PROCTOR DENSITY IFICATION RE INCH ARE FOOT ARE YARD TARY SEWER NLESS STEEL DARD ICTURAL MWATER MANAGEMENT PLAN ETRICAL JST BLOCK BACK OF CURB ORARY BENCH MARK ORARY HED GRADE ADJACENT TO TOP OF BANK OF CONCRETE OR TOP OF CURB OF STEP OF WALL OR CAP OF WALL ORM BUILDING CODE ERGROUND ELECTRIC OF VERTICAL CURVATURE FIED CLAY PIPE OR WIDTH R QUALITY CONTROL VOLUME R SURFACE ELEVATION EWATER CROSS SECTION TRICAL TRANSFORMER HYDRANT

	DESCRIPTION	DATE	DRAWN BYZCF/NLM DATESCALES:
REVISION \triangle		_	PLAN & PROFILE
REVISION 🖄			DESIGNED BY <u>ZCE/AMF</u> DATE
REVISION 🔬			CHECKED BY JJM DATE
REVISION \land			APPROVED BY DATE

	LEGEND
	BENCHMARK
õ	MANHOLE
ss	SANITARY SEWER - 12" AND SMALLER
	EXIST INDEX CONTOUR
	EXIST INTERMEDIATE CONTOUR
	ASPHALT
<	CONCRETE
	GRASS/LANDSCAPING
	ROCKS
	LIMITS OF SAWCUT
	LIMITS OF WORK
	EASEMENT LINE
	PROPERTY LINE
	ADJACENT PROPERTY LINE/ROW
	MATCHLINE



SURVEY LEGEND

W	WATER LINE
	WATER VALVE WATER METER
	FIRE HYDRANT
SS	SANITARY SEWER LINE
(S)	SANITARY SEWER MANHOLE
SD	STORM DRAINAGE LINE
	STORM DRAINAGE MANHOLE
	CURB INLET
IRR	IRRIGATION LINE
UE	UNDERGROUND ELECTRICAL
,Ø	UTILITY POLE
XFMR	ELECTRICAL TRANSFORMER
	LIGHT POLE
T	TELEPHONE LINE
Τ	TELEPHONE RISER
G	GAS LINE
// // /	BUILDING WALLS
	CONCRETE
	EDGE OF ASPHALT
X	FENCE
GT	GREASE TRAP
(<u>©</u>)	DECIDUOUS TREE
•	BENCHMARK AS DESCRIBED
•	PROPERTY PIN
	EASEMENT BOUNDARY
	PROPERTY LINE
	RIGHT-OF-WAY BOUNDARY

NHOLE NHOLE RICAL LINE RMER RIBED

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 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 2023 SEWER LINE CONSTRUCTION DATED 1/10/2024. 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:

<u>BENCHMARK</u> NORTHING 44412.354 EASTING 94661.540 NAVD 88, G12A ELEVATION: 4661.300 FT COMMENT: 2" ALUMINIUM CAP (LS#20617)

- SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
- HTTPS: //WWW.FHWA.DOT.GOV/PROGRAMADMIN/SUEINDEX.CFM FOR MORE INFORMATION.
- 18.4 SERVICE TAP LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RESTORING ALL SERVICE CONNECTIONS.

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 SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.







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GENERAL NOTES

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, 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

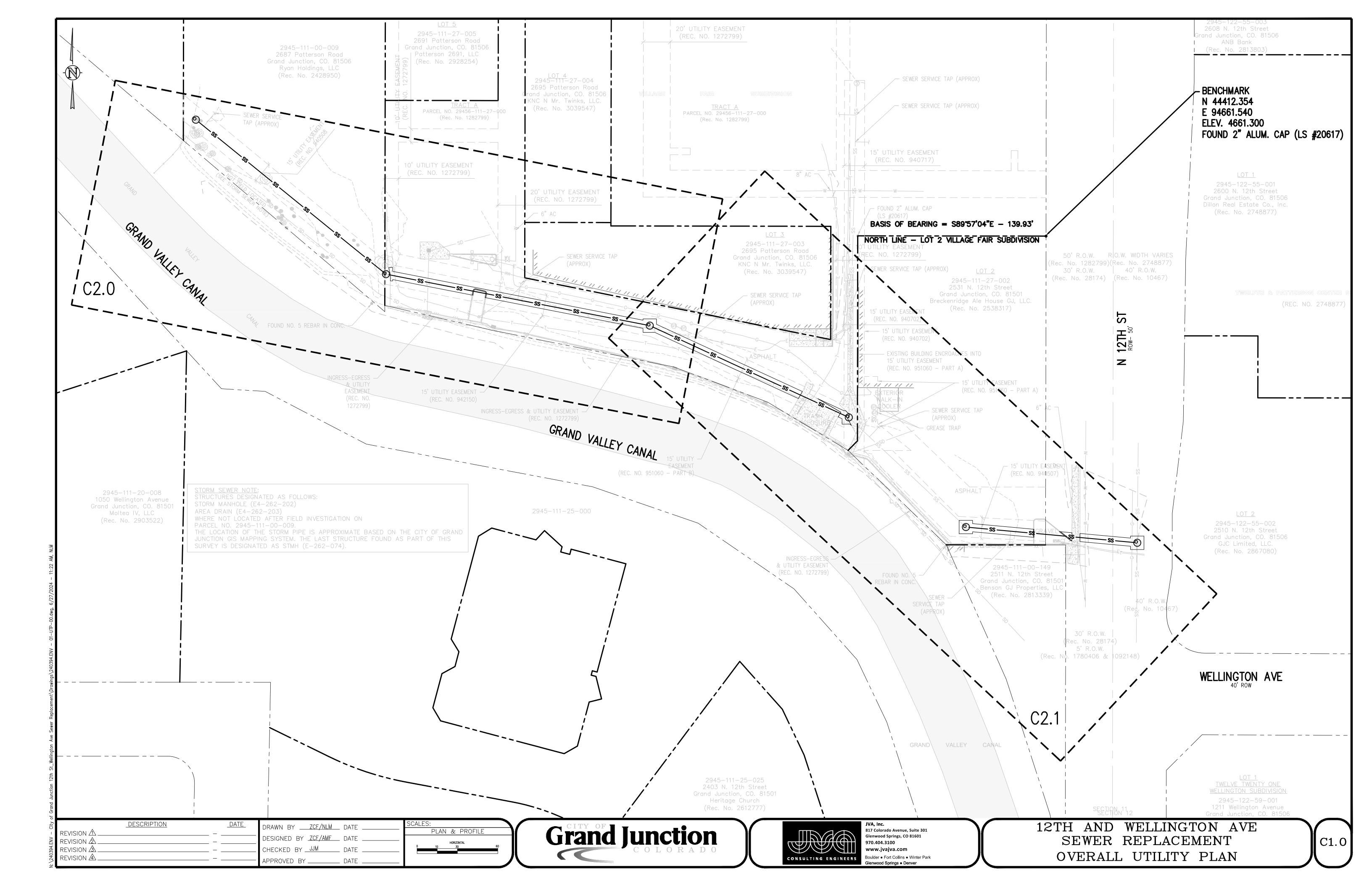
17. LOCATIONS OF CLEANOUTS, LIGHTS, SIGNAGE, JUNCTION BOXES, AND OTHER SIGNIFICANT SITE FEATURES TO BE STAKED FOR ENGINEER AND OR OWNER APPROVAL PRIOR TO WORK. CLEANOUTS, JUNCTION BOXES, AND ADJACENT

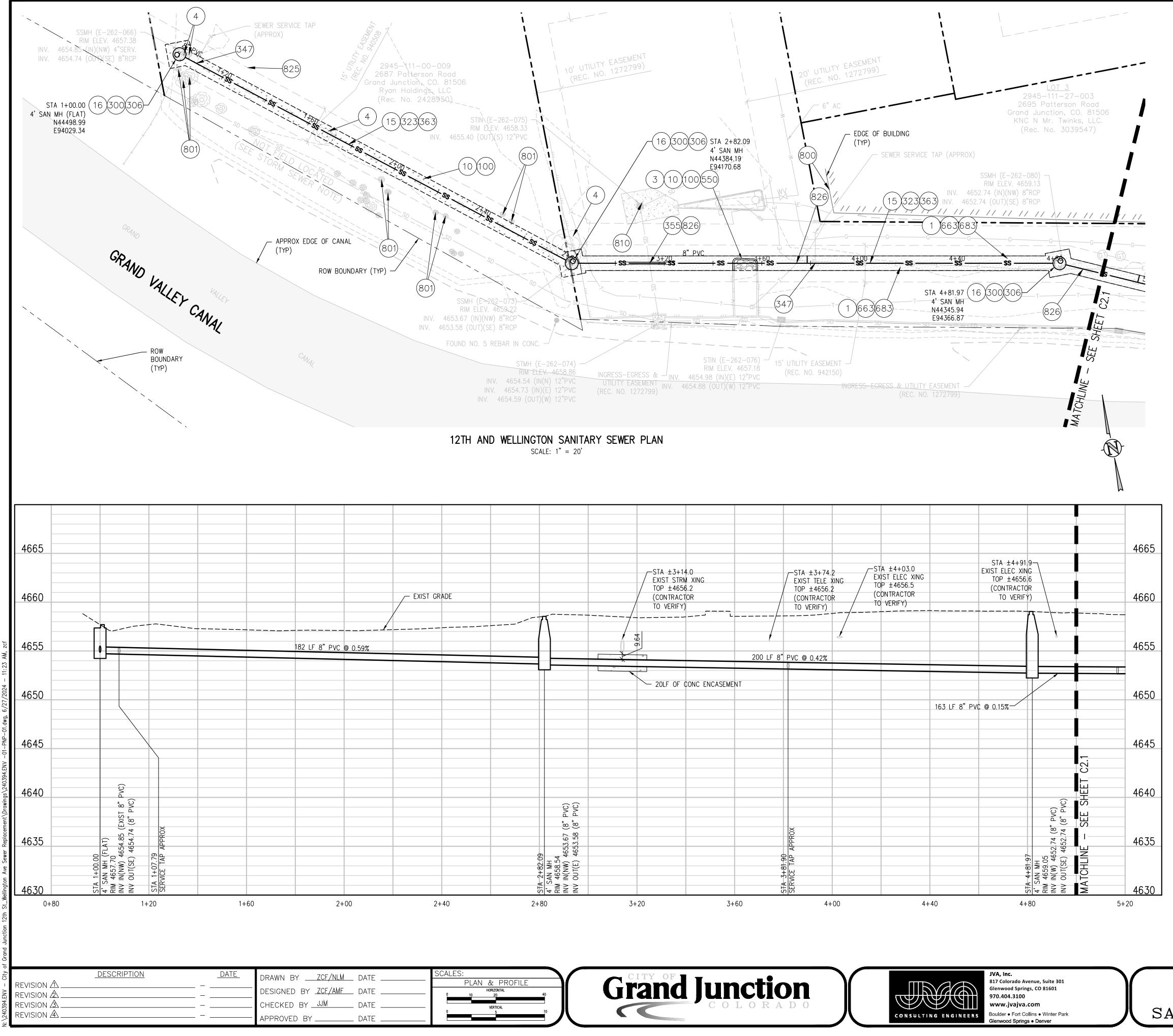
18.1 BEARINGS ARE BASED ON THE NORTH LINE OF LOT 2, VILLAGE FAIR SUBDIVISION, S89*57'04"E, BASED ON THE MESA COUNTY LOCAL COORDINATE SYSTEM (MCLCS). COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA

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

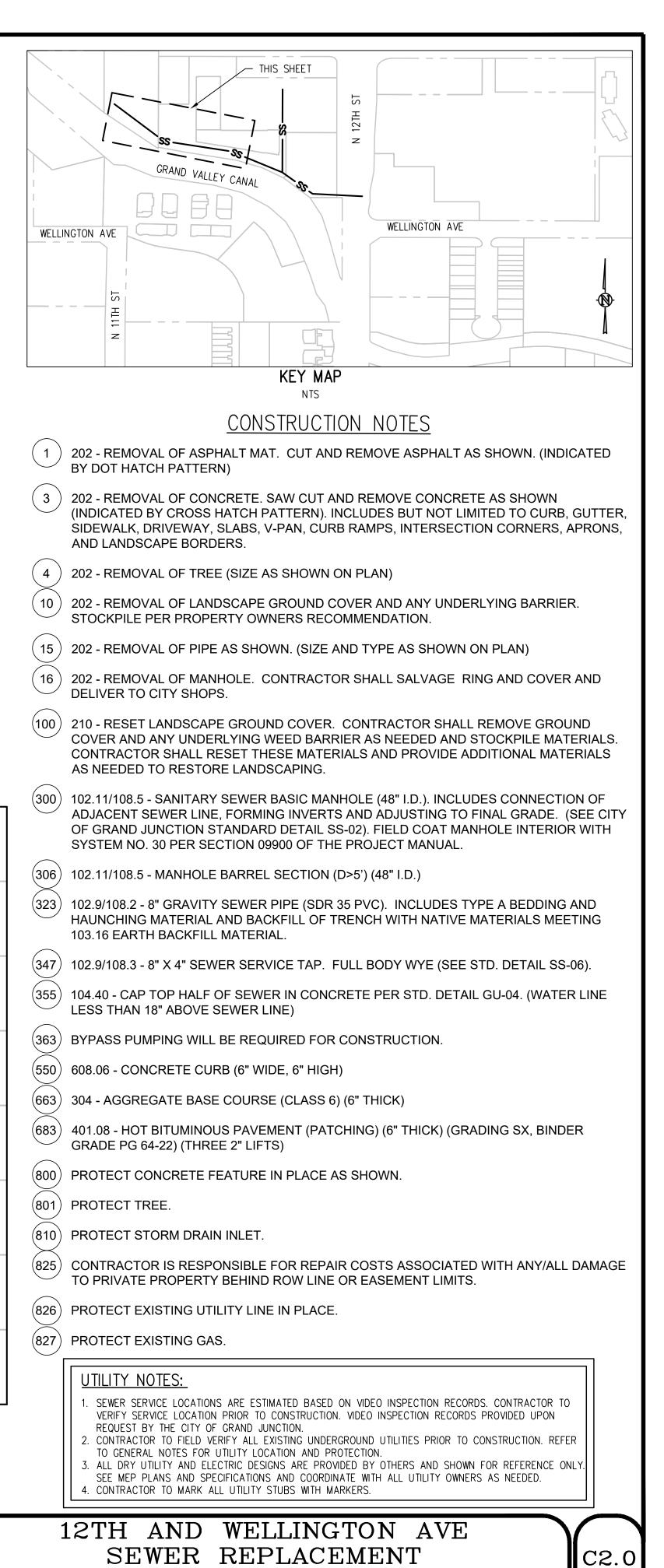
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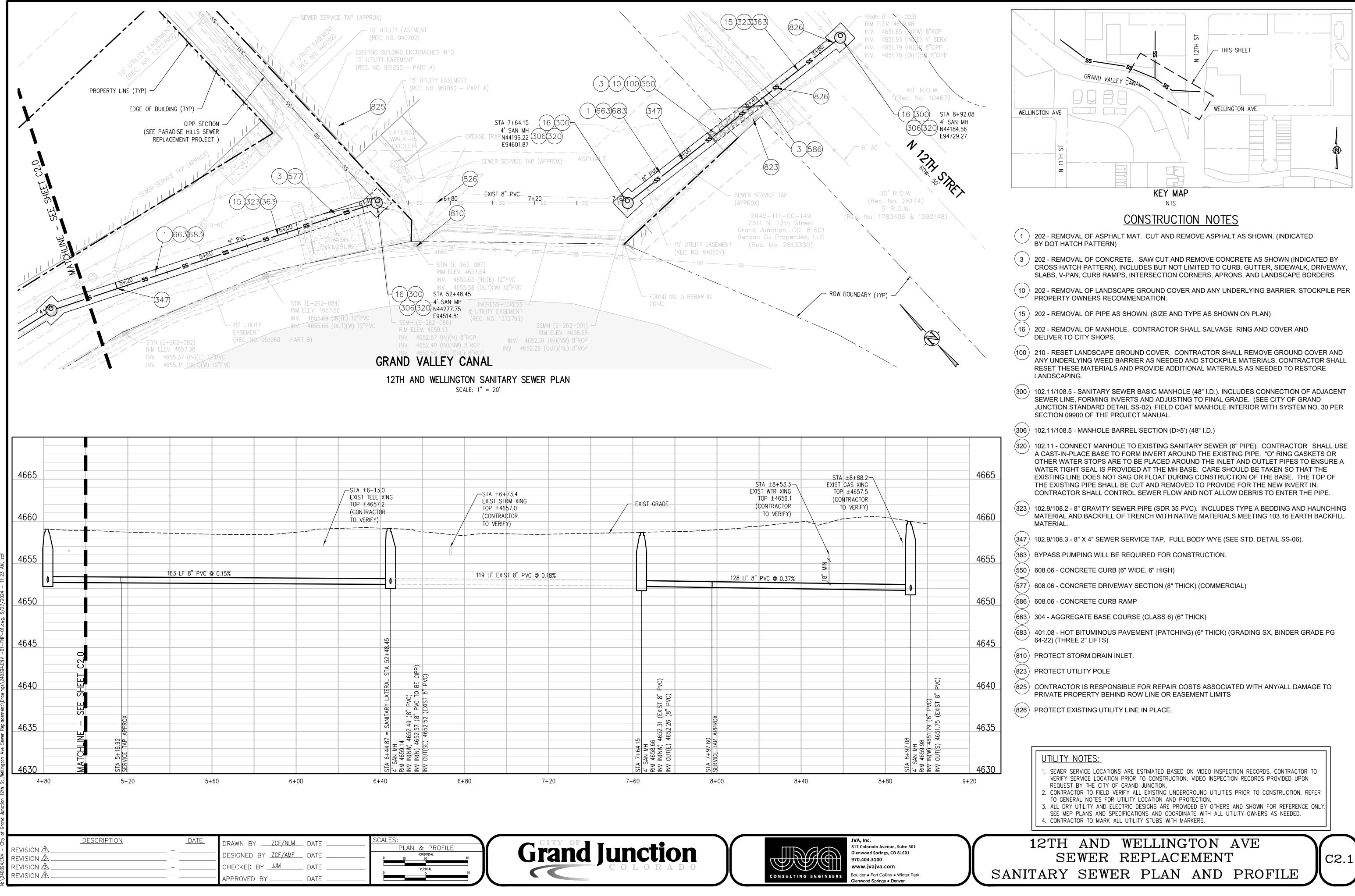




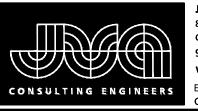




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	UTILITY NOTES:
	1. SEWER SERVICE LOCATIONS ARE ESTIMATED BASED ON VIDEO INSPECTION RECORDS. CONTRACTOR TO VERIFY SERVICE LOCATION PRIOR TO CONSTRUCTION. VIDEO INSPECTION RECORDS PROVIDED UPON REQUEST BY THE CITY OF GRAND JUNCTION.
	2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
	 ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.