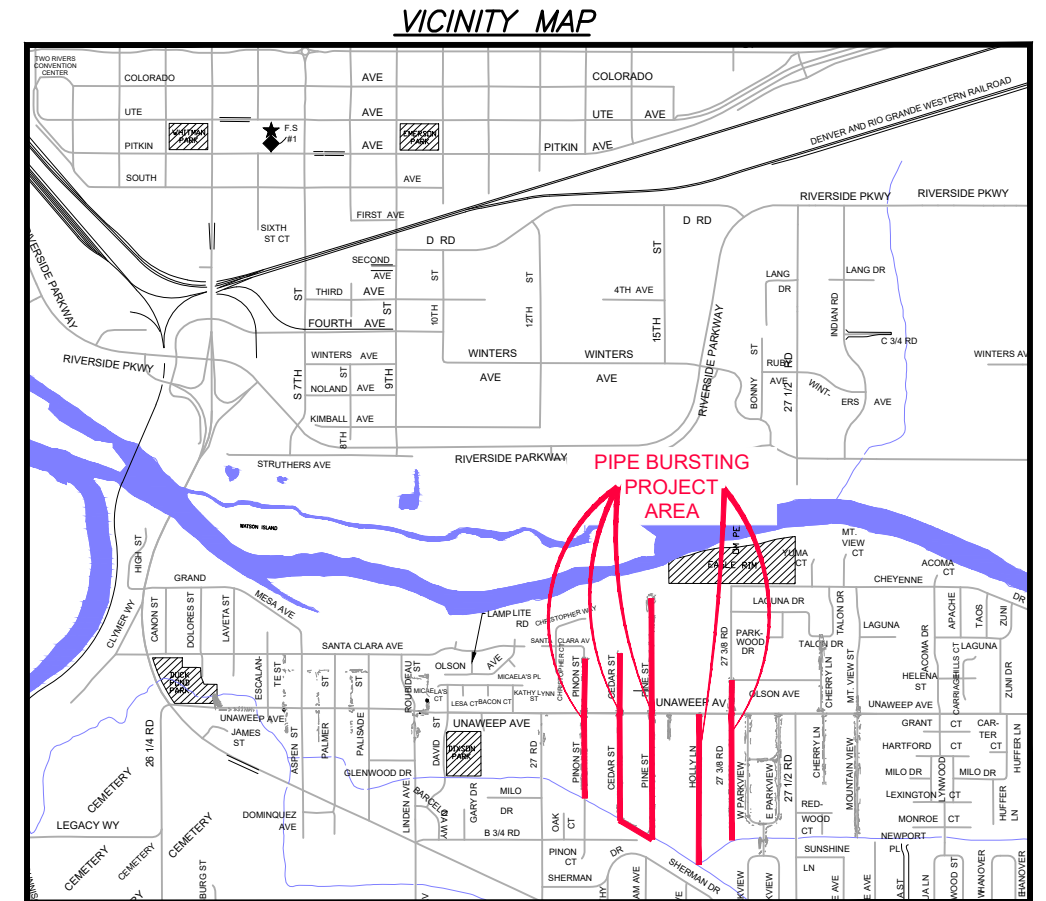
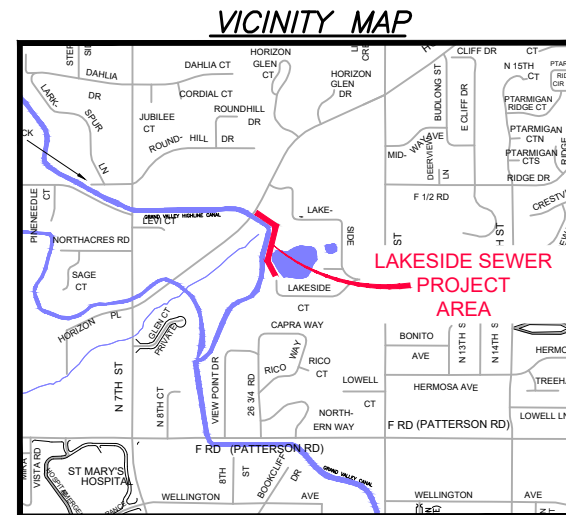


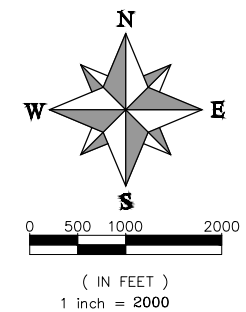
2022 Sewer Line Replacement/ Rehabilitation

1 — Cover Sheet	
2 — Standard Abbreviations, Legend and Symbols	
3 — Summary of Quantities	
4 — Project Control Map	
5 — Pinion St. P&P	Sta 100 + 00 — 102 + 00
6 — Pinion St. P&P	Sta 102 + 00 — 104 + 00
7 — Pinion St. P&P	Sta 104 + 00 — 106 + 00
8 — Pinion St. P&P	Sta 106 + 00 — 108 + 00
9 — Pinion St. P&P	Sta 108 + 00 — 110 + 00
10 — Pinion St. P&P	Sta 110 + 00 — 112 + 00
11 — Pinion St. P&P	Sta 112 + 00 — 114 + 00
12 — Cedar St. P&P	Sta 10 + 00 — 12 + 00
13 — Cedar St. P&P	Sta 12 + 00 — 14 + 00
14 — Cedar St. P&P	Sta 14 + 00 — 16 + 00
15 — Cedar St. P&P	Sta 16 + 00 — 18 + 00
16 — Cedar St. P&P	Sta 18 + 20 — 20 + 00
17 — Cedar St. P&P	Sta 20 + 40 — 22 + 00
18 — Cedar St. P&P	Sta 22 + 00 — 24 + 00
19 — Cedar St. P&P	Sta 24 + 00 — 26 + 00
20 — Cedar St. P&P	Sta 26 + 00 — 28 + 00
21 — Cedar St. P&P	Sta 100 + 00 — 102 + 00
22 — Cedar St. P&P	Sta 102 + 00 — 104 + 00
23 — Pine St. P&P	Sta 10 + 00 — 12 + 00
24 — Pine St. P&P	Sta 12 + 00 — 14 + 00
25 — Pine St. P&P	Sta 14 + 00 — 16 + 00
26 — Pine St. P&P	Sta 16 + 00 — 18 + 00
27 — Pine St. P&P	Sta 18 + 00 — 20 + 00
28 — Pine St. P&P	Sta 20 + 00 — 22 + 00
29 — Pine St. P&P	Sta 22 + 00 — 24 + 00
30 — Pine St. P&P	Sta 24 + 00 — 26 + 00

31 — Pine St. P&P	Sta 26 + 00 — 28 + 00
32 — Pine St. P&P	Sta 28 + 00 — 30 + 00
33 — Pine St. P&P	Sta 30 + 00 — 32 + 00
34 — Pine St. P&P	Sta 32 + 00 — 34 + 00
35 — Pine St. P&P	Sta 34 + 00 — 36 + 00
36 — Holly Ln. P&P	Sta 10 + 00 — 12 + 00
37 — Holly Ln. P&P	Sta 12 + 00 — 14 + 00
38 — Holly Ln. P&P	Sta 14 + 00 — 16 + 00
39 — Holly Ln. P&P	Sta 16 + 00 — 18 + 00
40 — Holly Ln. P&P	Sta 18 + 00 — 20 + 00
41 — Holly Ln. P&P	Sta 20 + 00 — 22 + 00
42 — Holly Ln. P&P	Sta 22 + 00 — 24 + 00
43 — Holly Ln. P&P	Sta 24 + 00 — 26 + 00
44 — 27 3/8 Rd. P&P	Sta 10 + 00 — 12 + 00
45 — 27 3/8 Rd. P&P	Sta 12 + 00 — 14 + 00
46 — 27 3/8 Rd. P&P	Sta 14 + 00 — 16 + 00
47 — 27 3/8 Rd. P&P	Sta 16 + 00 — 18 + 00
48 — 27 3/8 Rd. P&P	Sta 18 + 00 — 20 + 00
49 — 27 3/8 Rd. P&P	Sta 20 + 00 — 22 + 00
50 — 27 3/8 Rd. P&P	Sta 22 + 00 — 24 + 00
51 — 27 3/8 Rd. P&P	Sta 24 + 00 — 26 + 00
52 — 27 3/8 Rd. P&P	Sta 26 + 00 — 28 + 00
53 — LAKESIDE	Sta 0 + 00 — 4 + 50
54 — LAKESIDE	Sta 4 + 50 — 8 + 52
55 — LAKESIDE EASEMENT	



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
CITY OF GRAND JUNCTION	Toby Thieman	PROJECT ENGINEER	PROJECT ENGINEER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 244-1559	(970) 256-4022
CITY OF GRAND JUNCTION	Toby Thieman	PROJECT ENGINEER	SANITARY SEWER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 244-1559	(970) 256-4022
ORCHARD MESA IRRIGATION	MAX SCHMIDT	MANAGER	IRRIGATION	668 38 RD	668 38 RD	PALISADE, CO 81526	(970) 464-7885	(970) 464-5928
SPECTRUM	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CENTURYLINK	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	JUSTIN BATES	SUPERVISOR	WATER	PO BOX 460	2190 H 1/4 RD	GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	STEVE PIBURN	UNIT MANAGER	ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2664	(970) 244-2664
XCEL	SARAH DARRICAU	UNIT MANAGER	GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656



DRAWING STATUS:	
●	PROGRESS
○	FINAL CONSTRUCTION DRAWINGS
○	ASBUILT
DESIGNED BY:	
TOBY THIEMAN	09/2022
REVIEWED BY:	
KEN HALEY, ENGINEERING MANAGER	09/2022
AUTHORIZED FOR CONSTRUCTION	
KEN HALEY, ENGINEERING MANAGER	09/2022
ACCEPTED AS CONSTRUCTED	
XXX, PROJECT ENGINEER	201X

PROJECT NO. F0016-F001642		
NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.		
REVISION	DESCRIPTION	DATE
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X



Public Works

Engineering Division



ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
C	CENTER LINE
CL	CLEAR
OMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
F	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

LEGEND

BSWMP DRAINAGE BASIN BOUNDARY	
BSWMP ANCHORED STRAW BALES	
BSWMP SILT FENCE	
BSWMP EROSION LOG	
BUILDING	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE	
PIPE (IRRIGATION)	
PIPE (SIPHON)	

PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	

NORTH ARROW:

BAR SCALE:

(IN FEET)
1 inch = 20 feet

REVISION Δ	DESCRIPTION	DATE	PROJECT NO.
REVISION Δ			DRAWN BY JCS DATE 4-02
REVISION Δ			DESIGNED BY DATE
REVISION Δ			CHECKED BY DATE
REVISION Δ			APPROVED BY DATE

SCALES: PLAN & PROFILE



PUBLIC WORKS ENGINEERING DIVISION

CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS

REVISION	DESCRIPTION	DATE
△		
△		
△		
△		

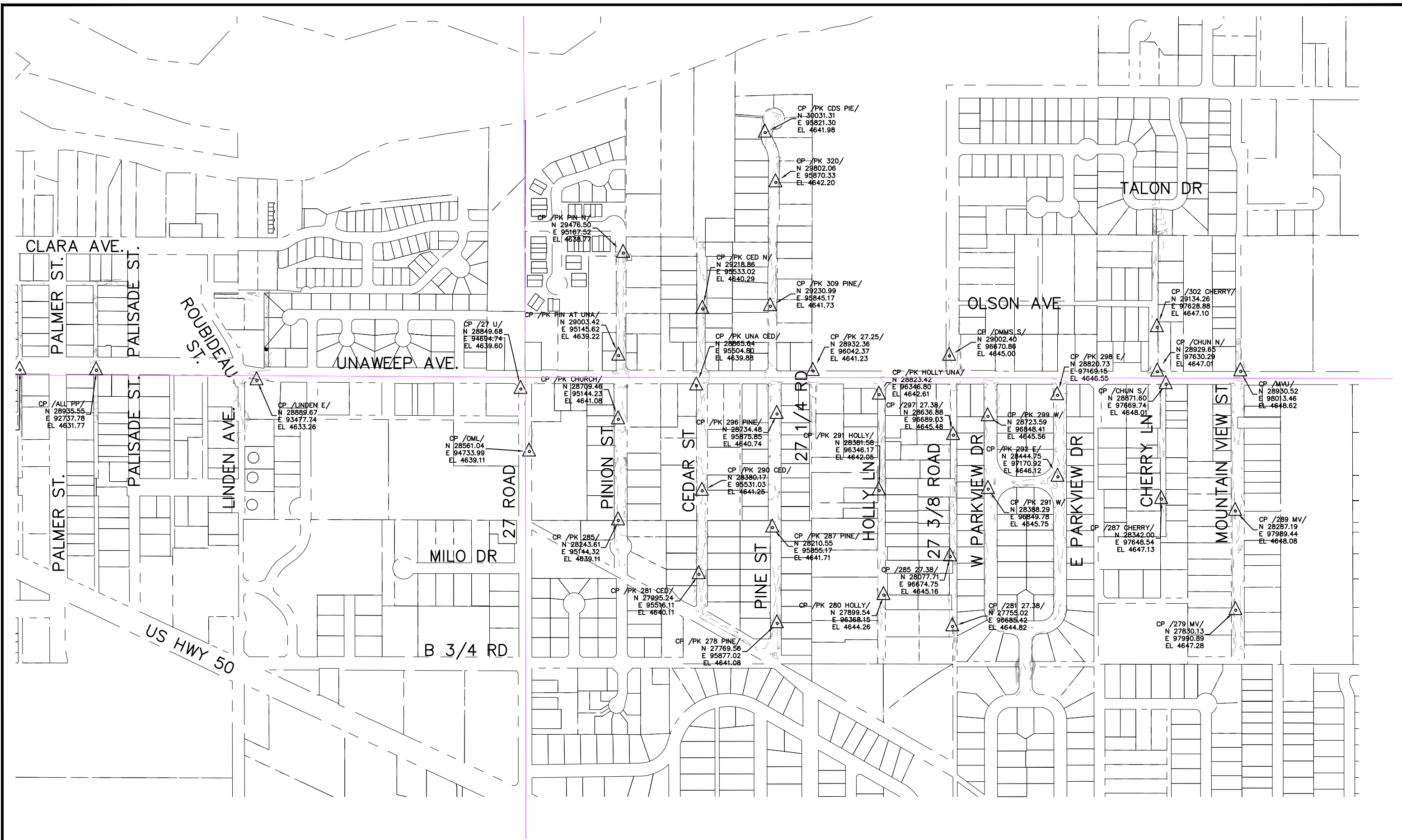
PROJECT NO. F001642
DRAWN BY DJM DATE 09/2022
DESIGNED BY DJM DATE 09/2022
CHECKED BY IRT DATE 09/2022
APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE



PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT/REHABILITATION
PARSES 2 & 3
SUMMARY OF APPROXIMATE QUANTITIES



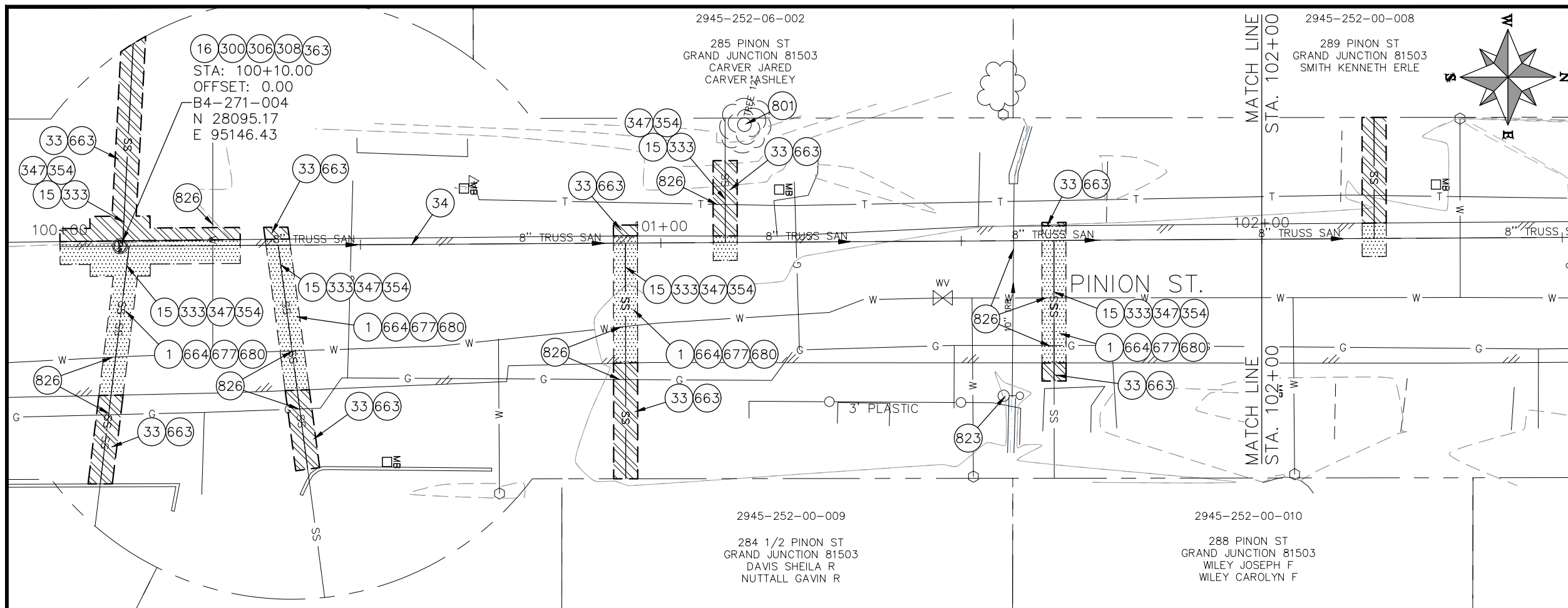
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ			DRAWN BY DJM DATE 09/2022
REVISION Δ			DESIGNED BY DJM DATE 09/2022
REVISION Δ			CHECKED BY TRT DATE 09/2022
REVISION Δ			APPROVED BY KH DATE 08/2022

SCALES: PLAN & PROFILE

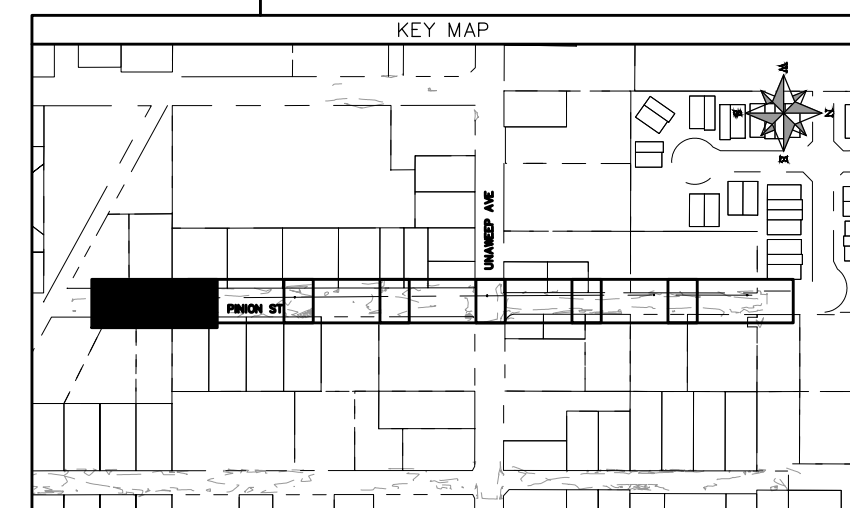
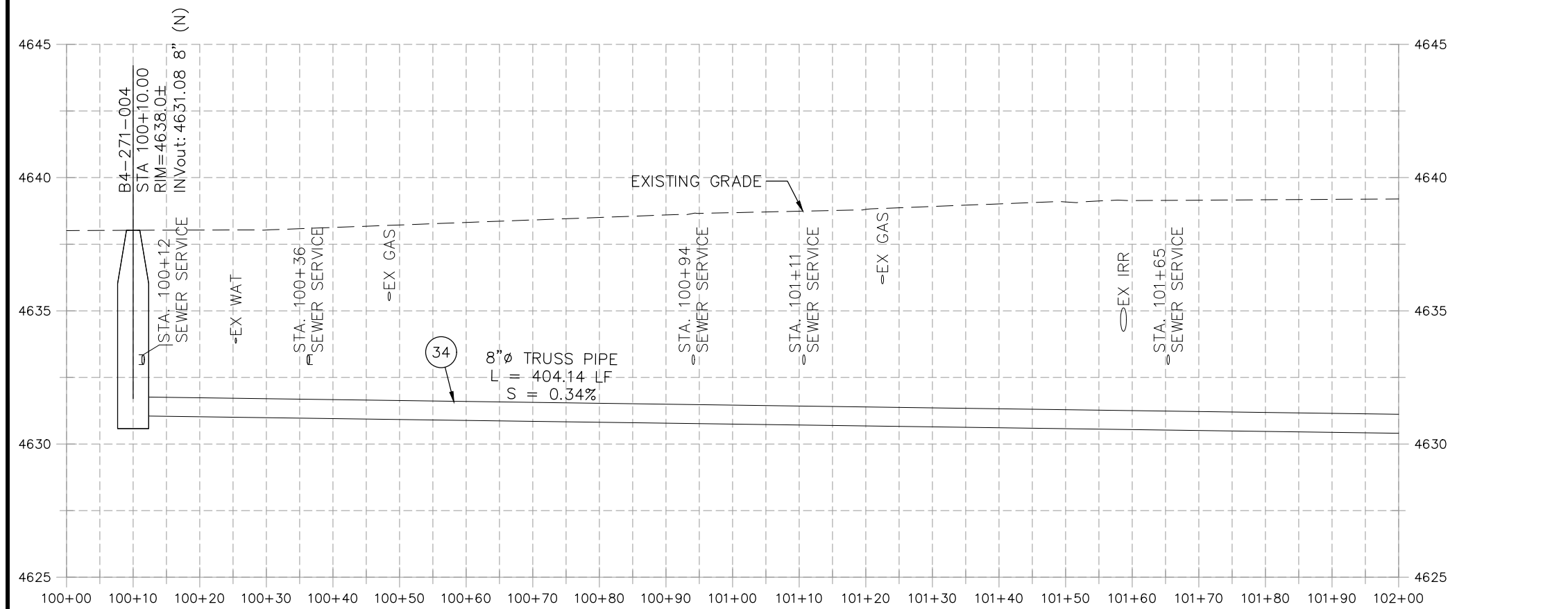


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT/REHABILITATION
PARSES 2 & 3
PROJECT CONTROL MAP



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



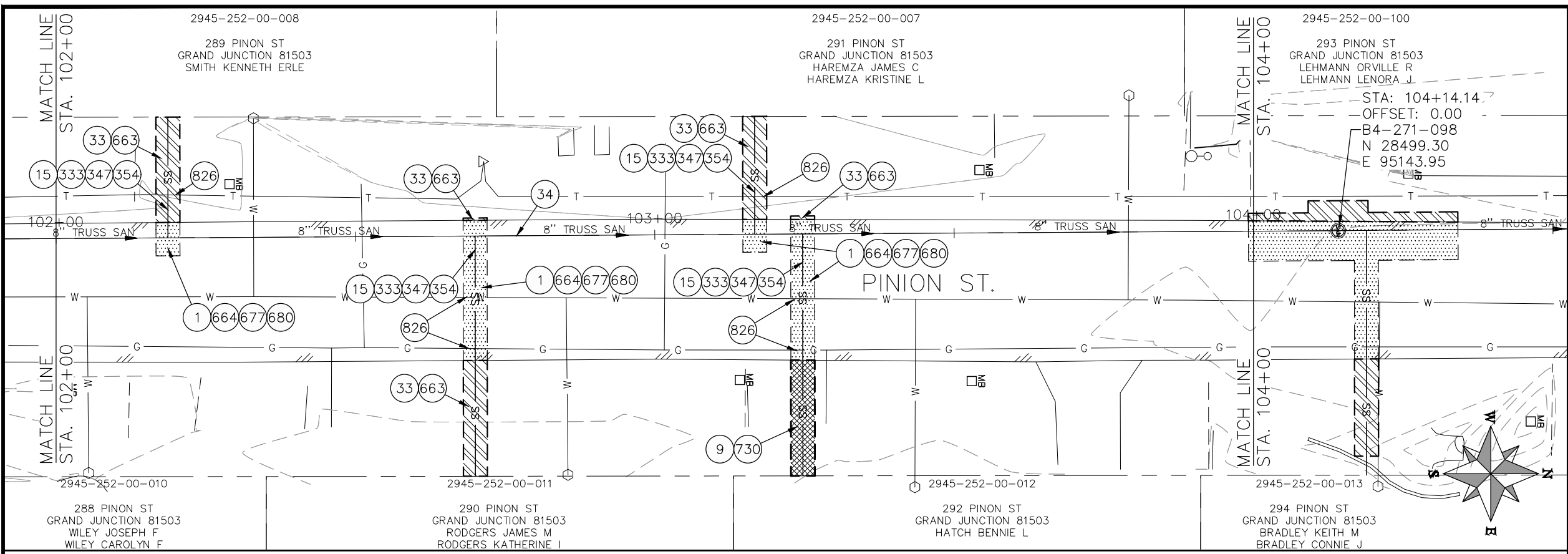
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	- 202X	DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DJM	DATE 09/2022
REVISION Δ XXX	- 202X	IRT	DATE 09/2022
REVISION Δ XXX	- 202X	KH	DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

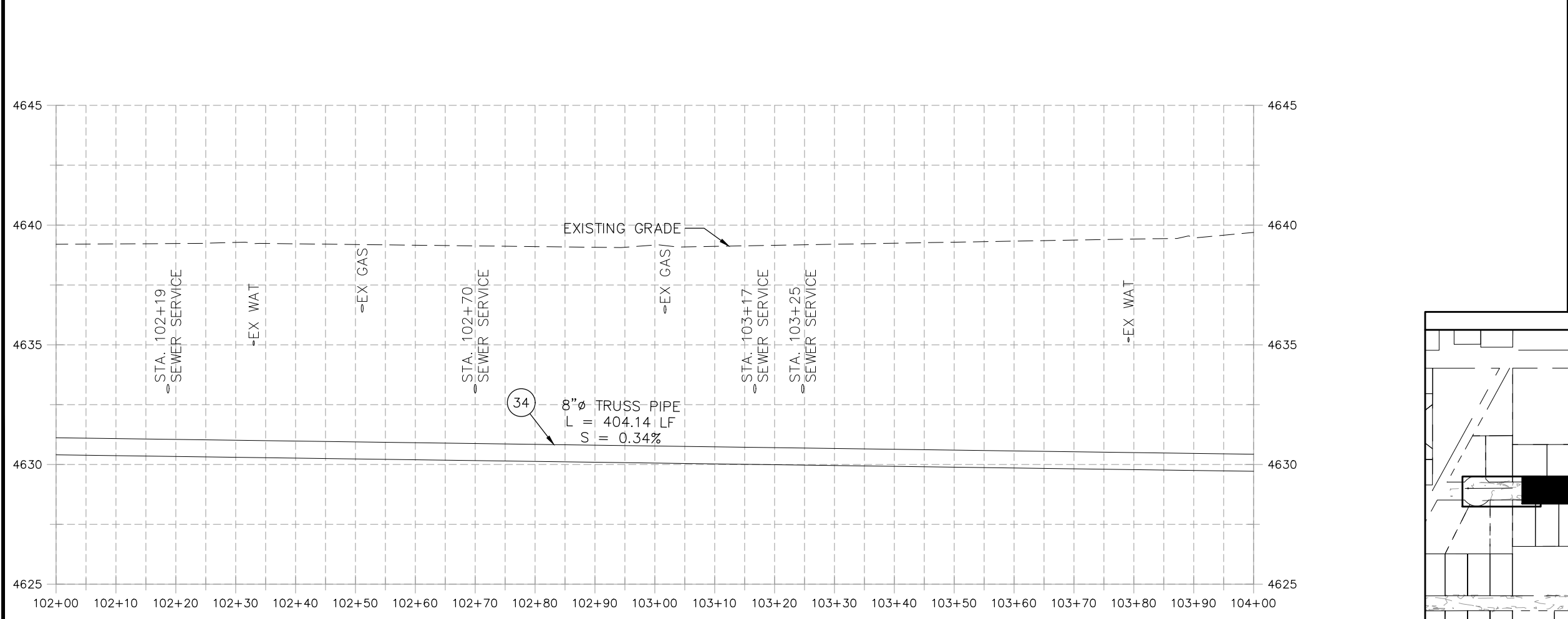


**PUBLIC WORKS
ENGINEERING DIVISION**

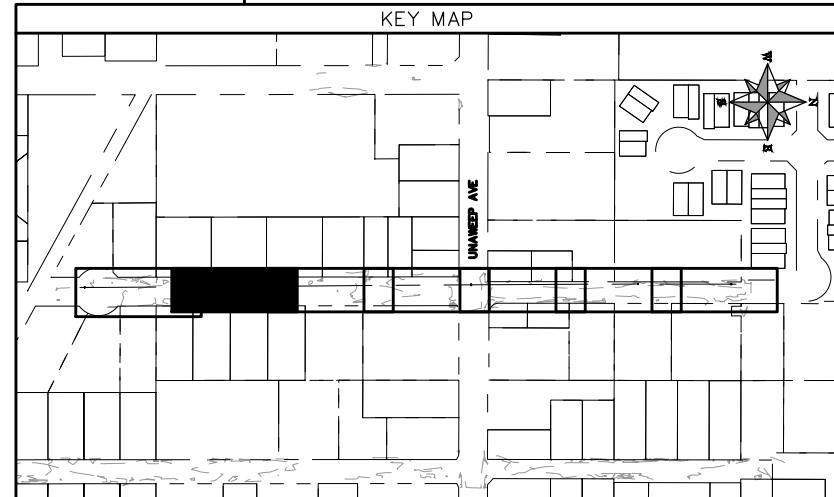
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 100+00 TO STA 102+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



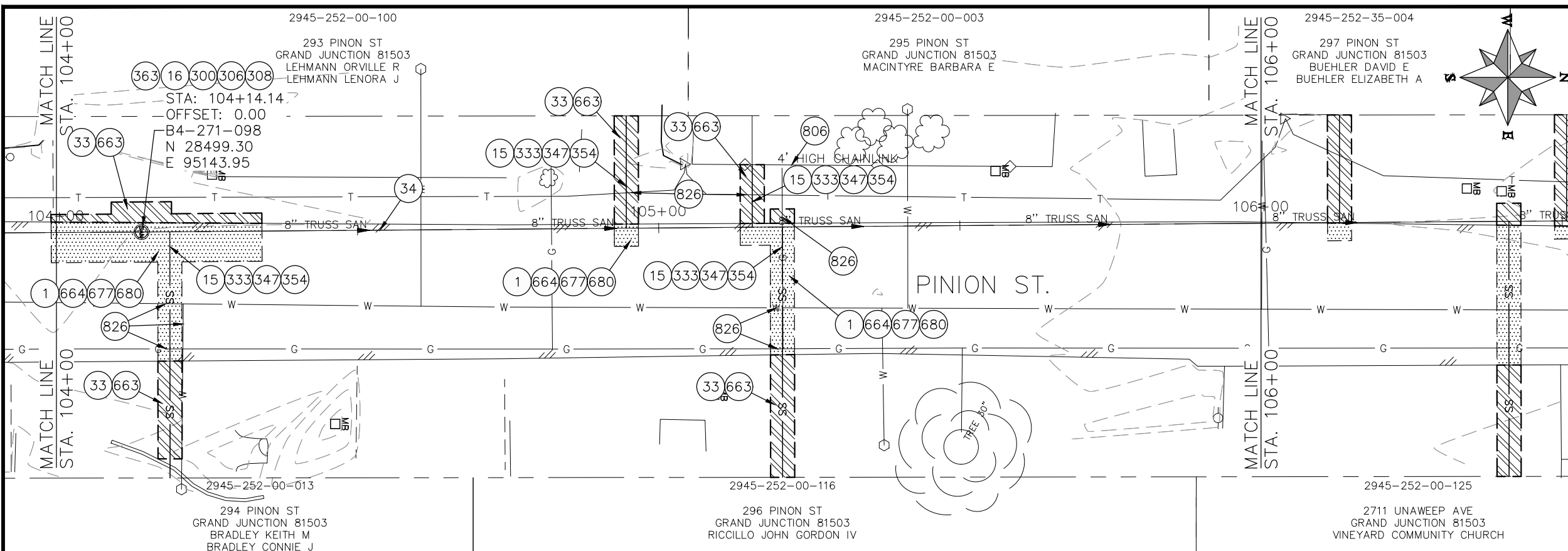
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	- 202X	DRAWN BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DESIGNED BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'

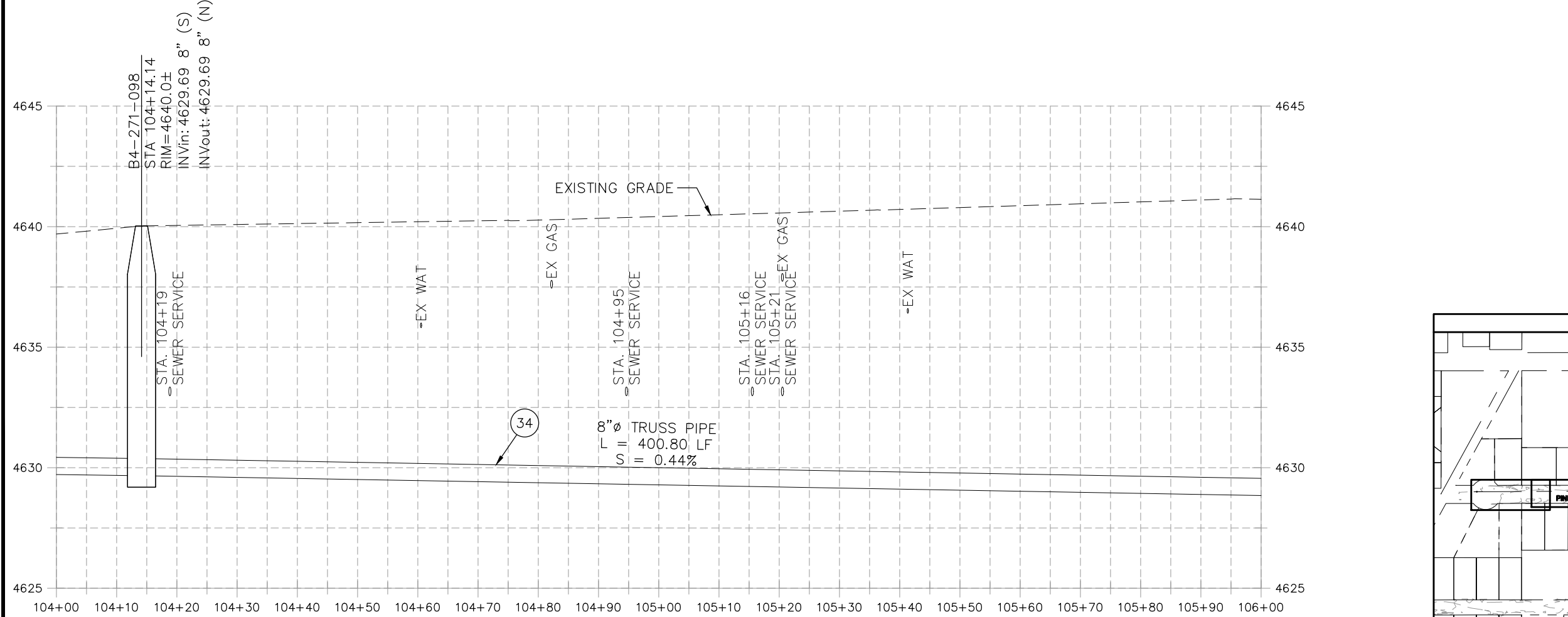


**PUBLIC WORKS
ENGINEERING DIVISION**

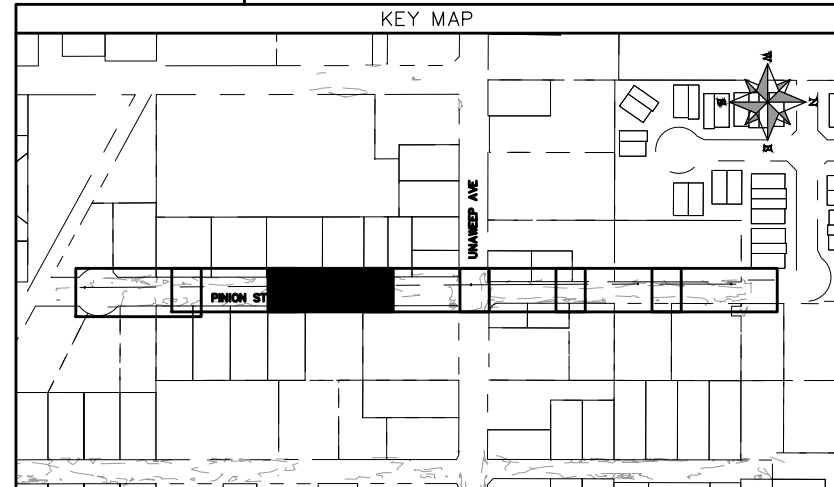
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 102+00 TO STA 104+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 806 PROTECT FENCE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



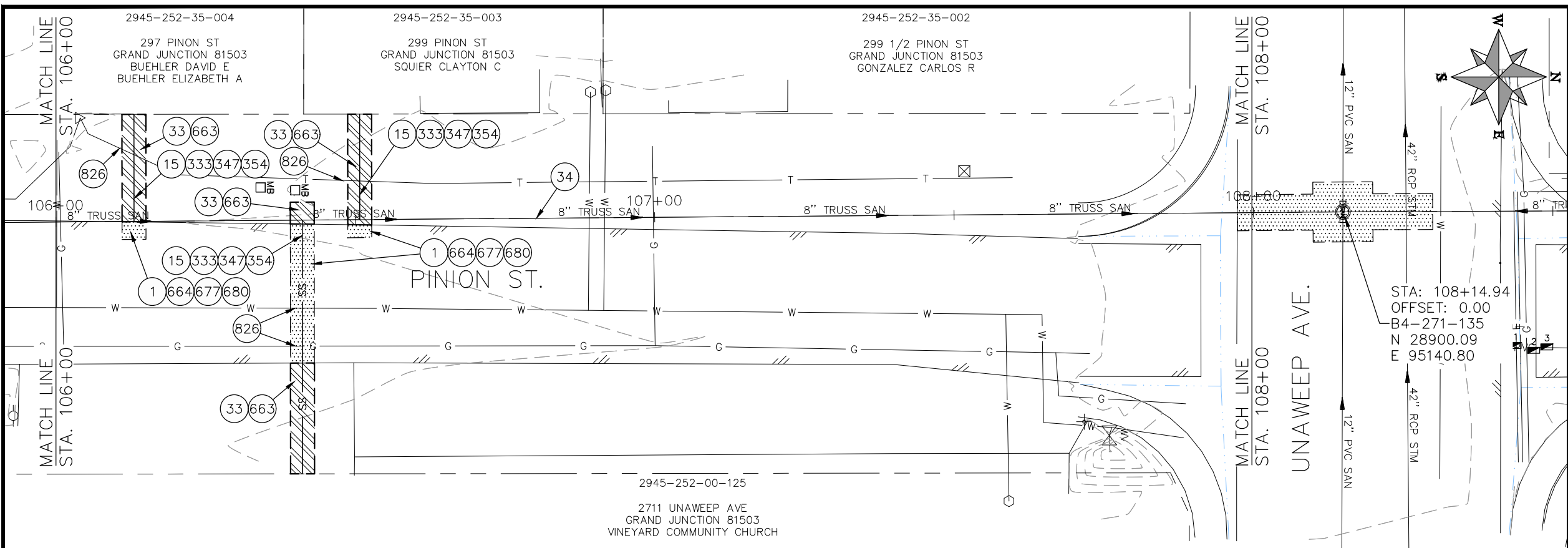
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

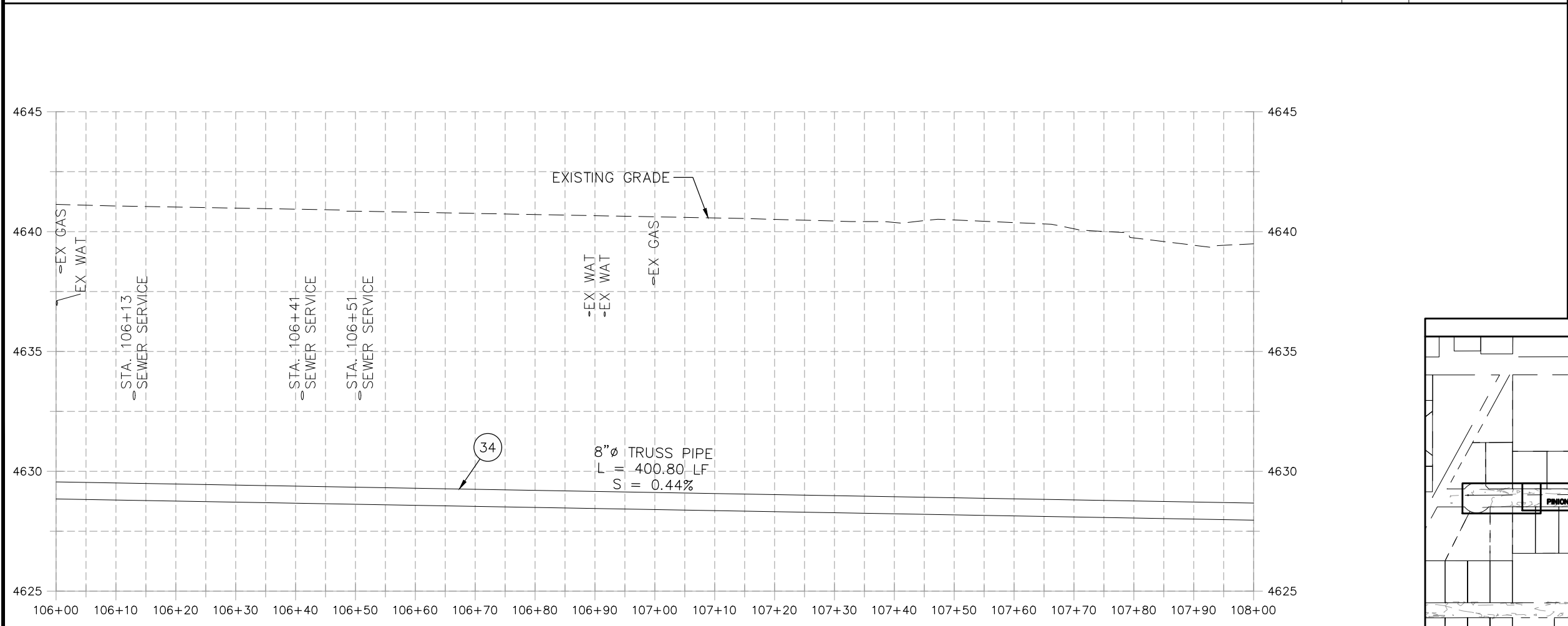


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 104+00 TO STA 106+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



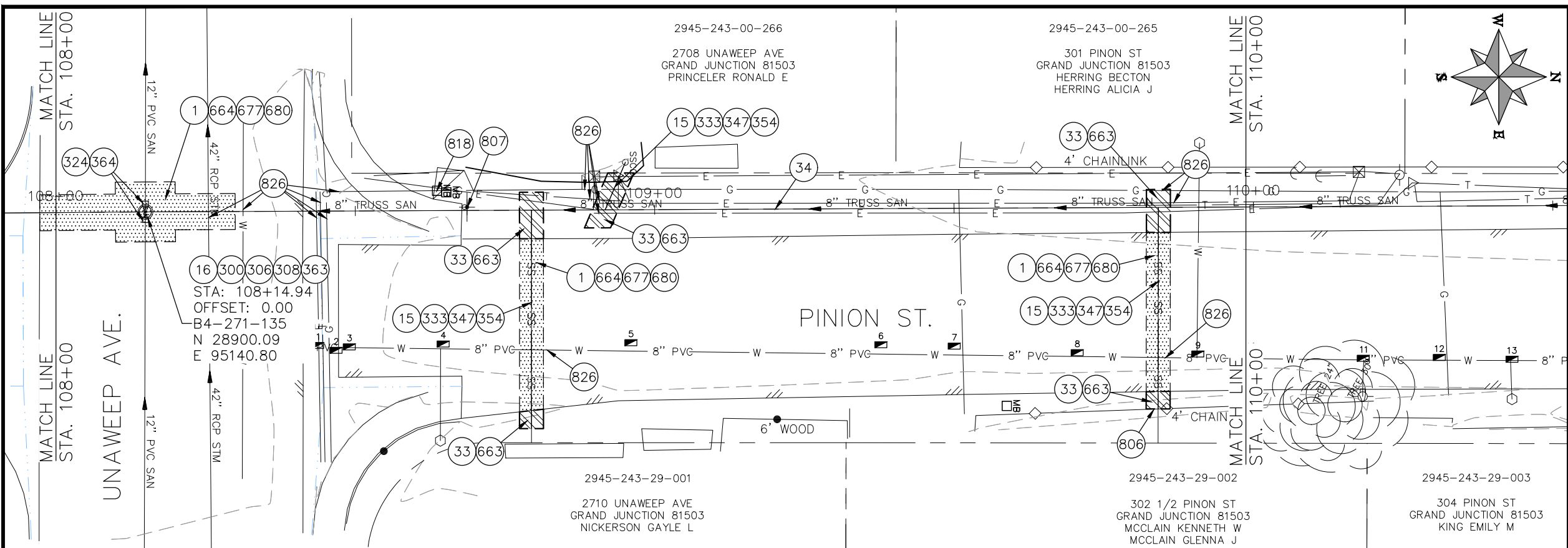
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REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

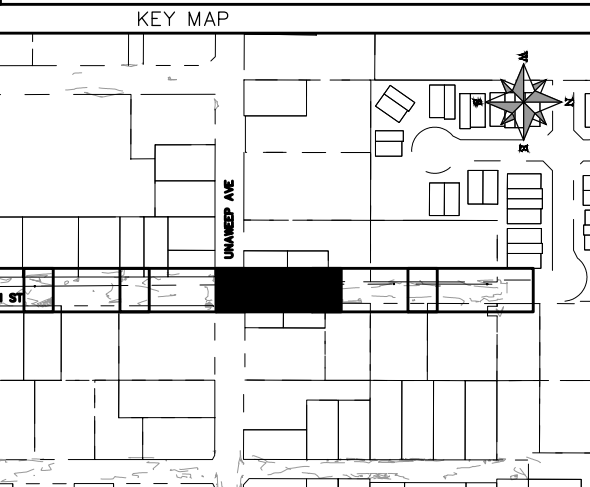
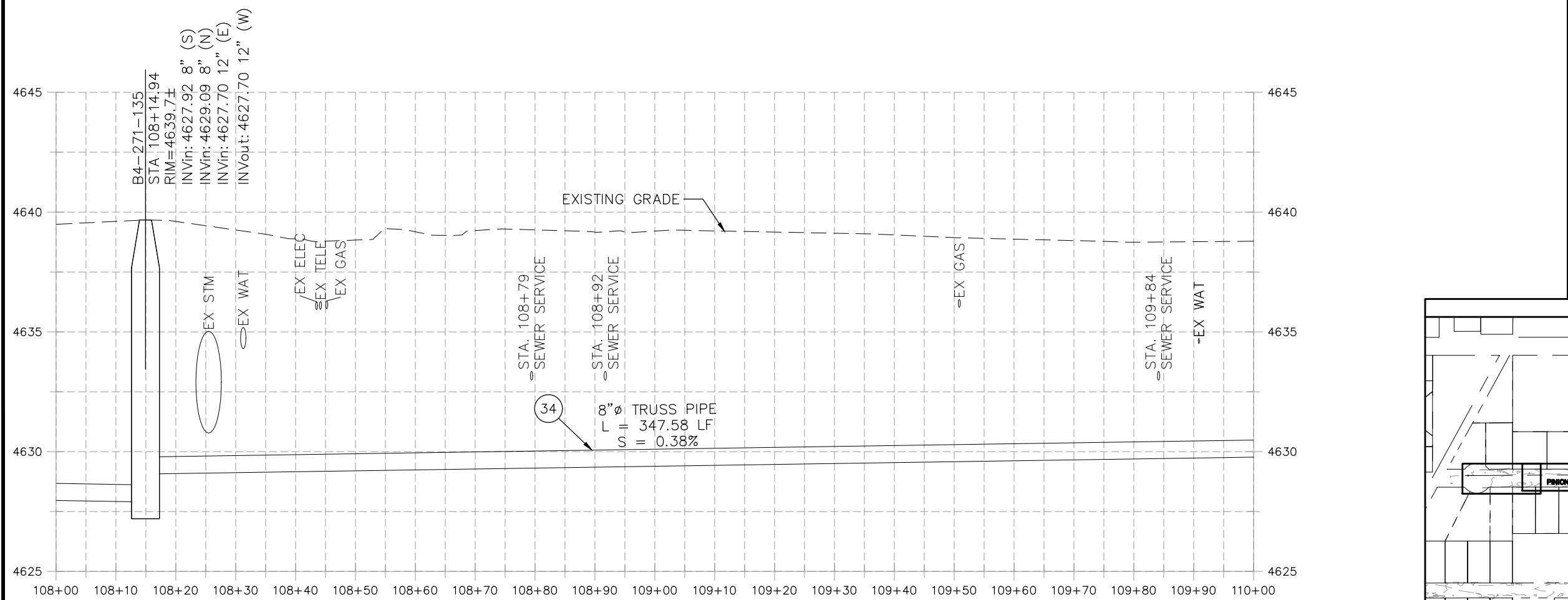


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 106+00 TO STA 108+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 806 PROTECT FENCE
 - 807 PROTECT SIGN
 - 818 PROTECT MAILBOX.
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



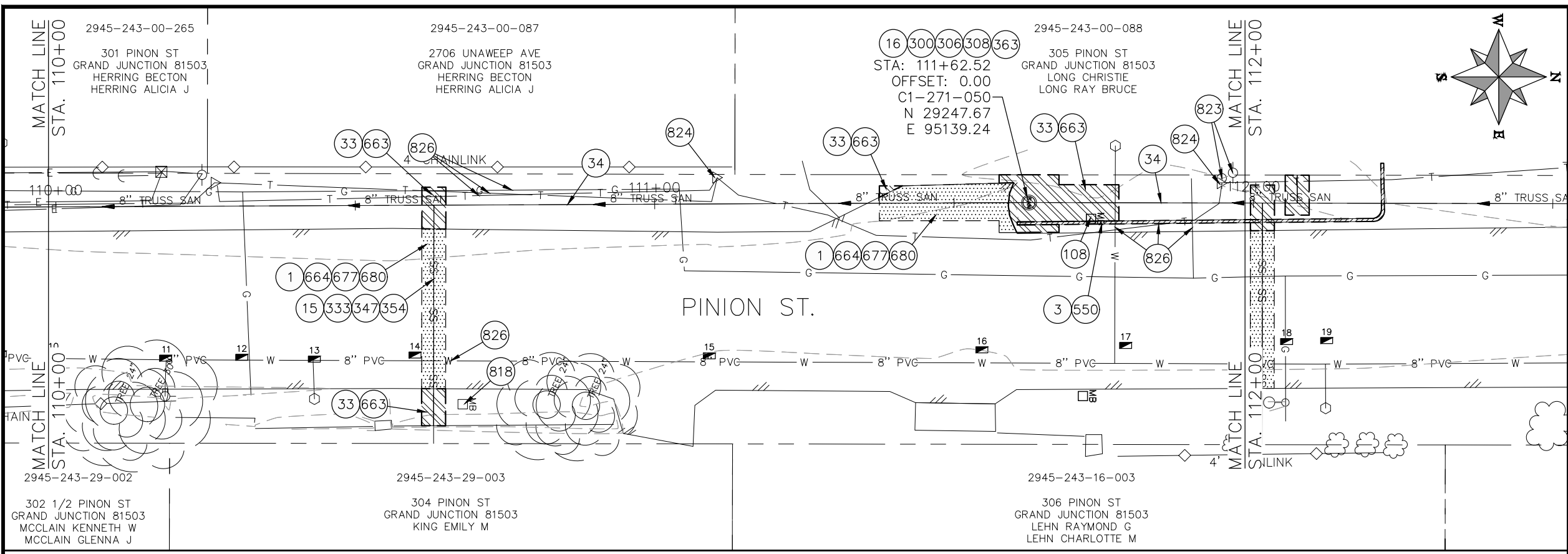
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
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REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

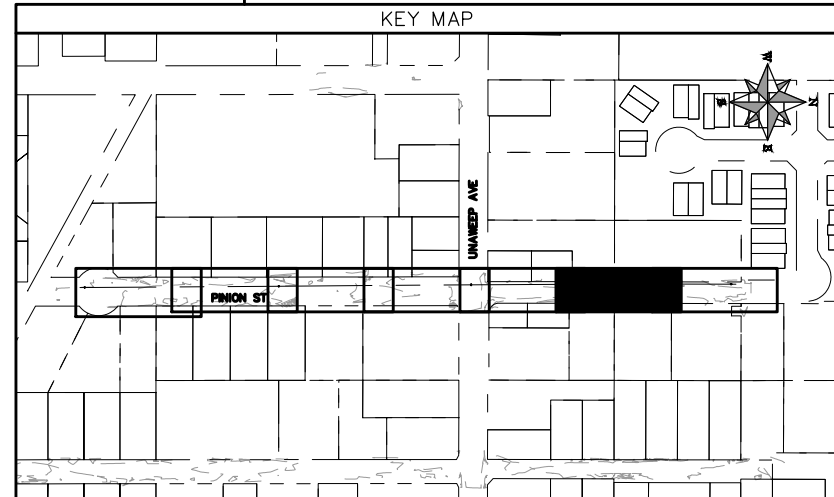
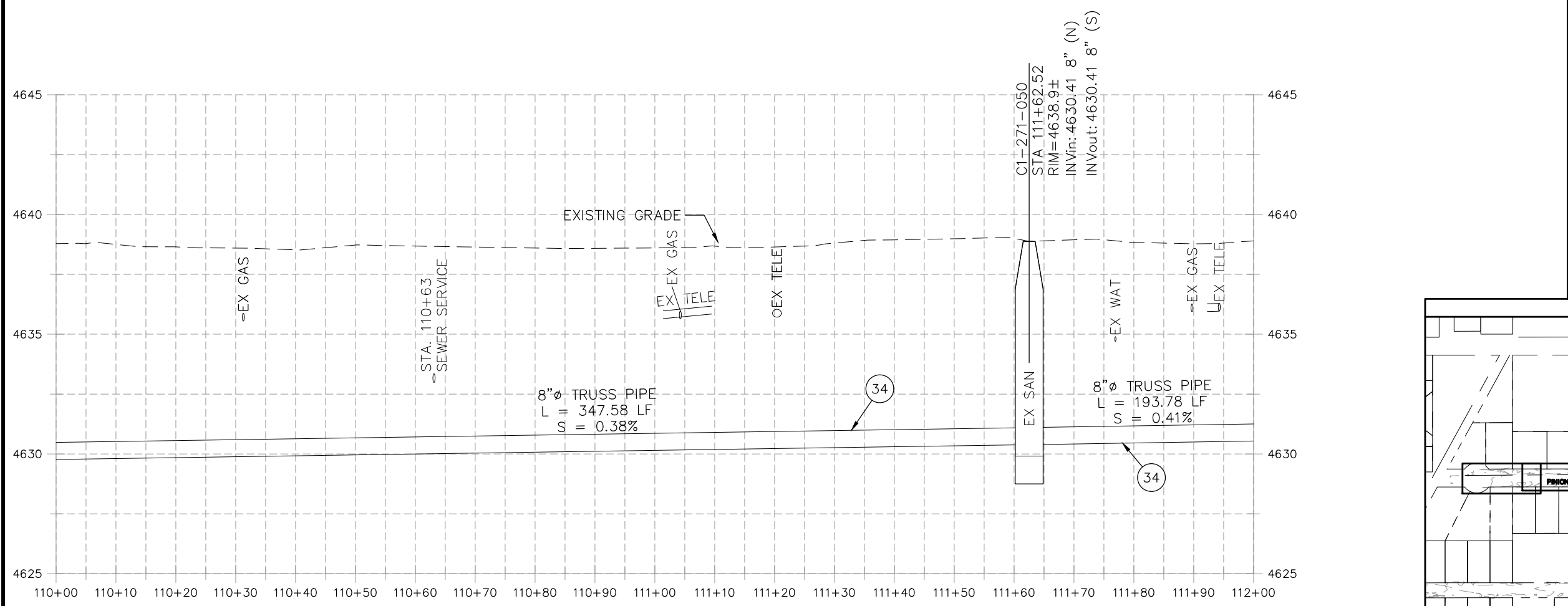
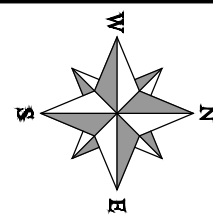


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 108+00 TO STA 110+00**



- ### CONSTRUCTION NOTES
- 1 202 - 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.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 108 210 - RESET MAILBOX TO NEW 4X4 POST.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 550 608.06 - CONCRETE CURB (6" WIDE, 6" HIGH)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 818 PROTECT MAILBOX
 - 823 PROTECT UTILITY POLE
 - 824 PROTECT UTILITY PEDESTAL
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



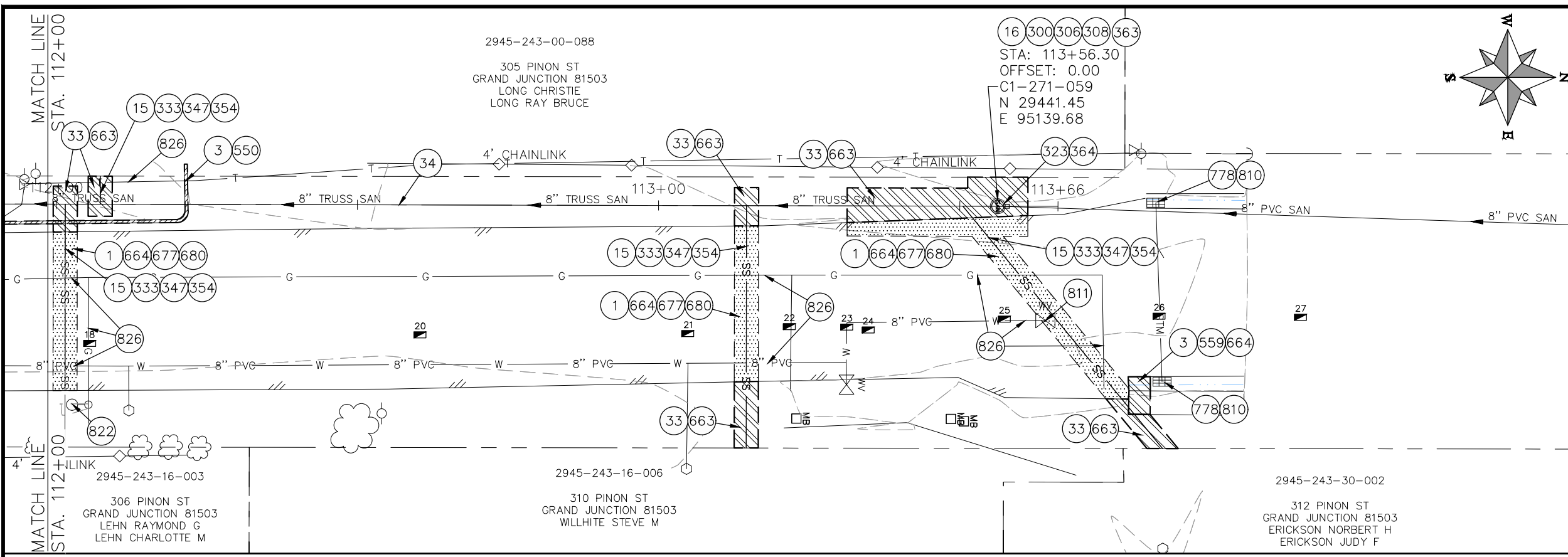
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
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SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

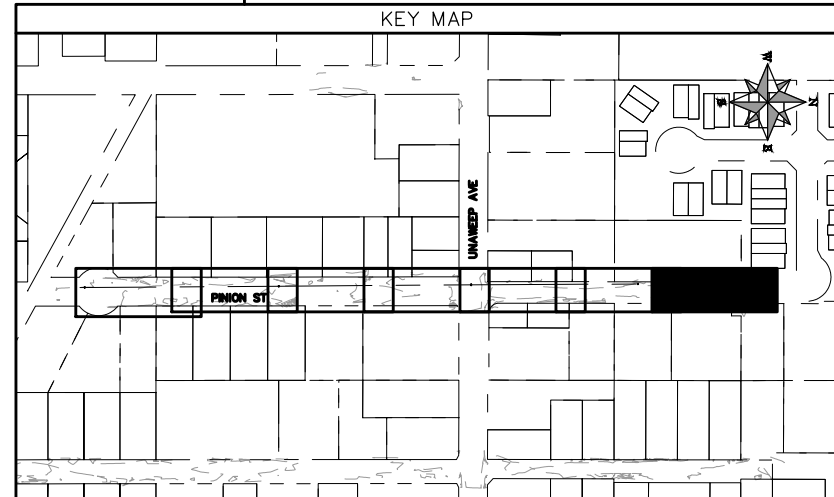
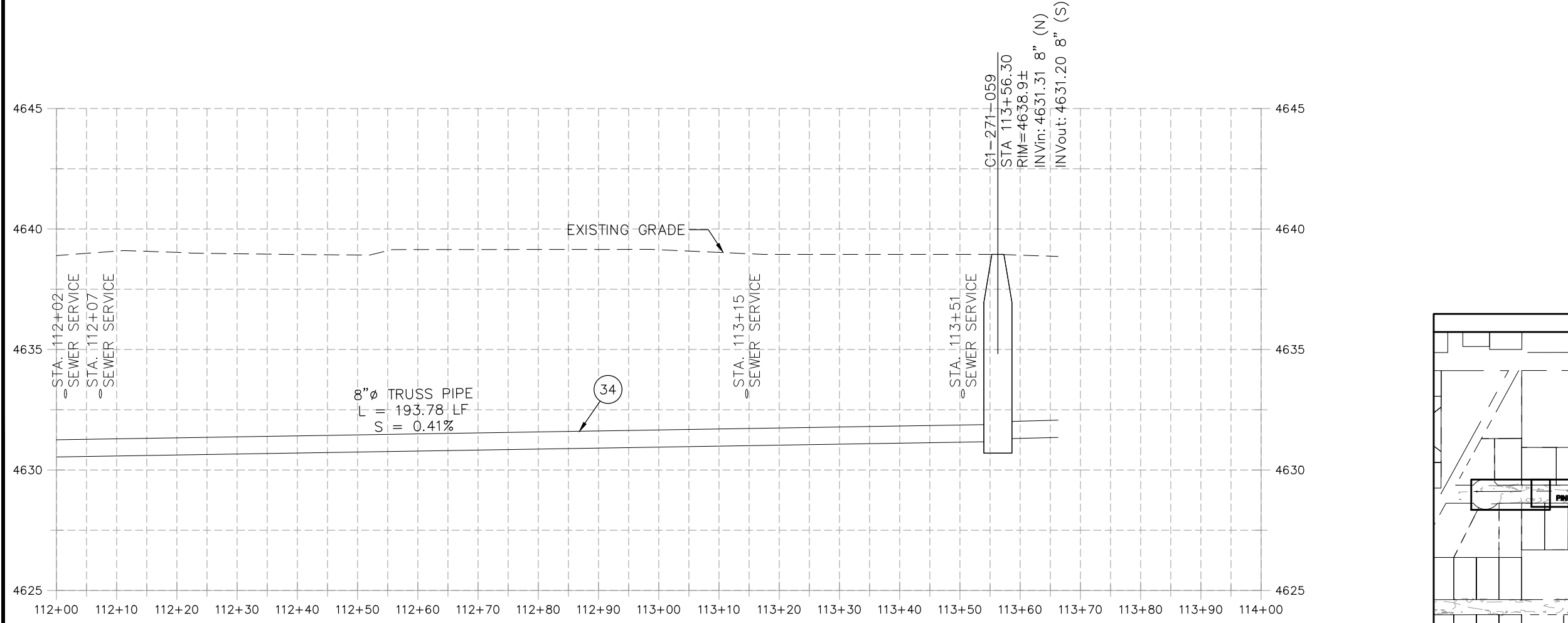
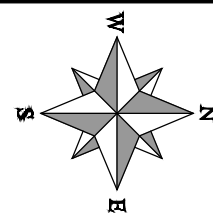


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINION ST PLAN AND PROFILE
STA 110+00 TO STA 112+00**



- CONSTRUCTION NOTES
- 1 202 - 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.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWER AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 550 608.06 - CONCRETE CURB (6" WIDE, 6" HIGH)
 - 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (7.5' WIDE)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
 - 810 PROTECT STORM DRAIN INLET
 - 811 PROTECT WATER VALVE
 - 822 PROTECT LIGHT POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



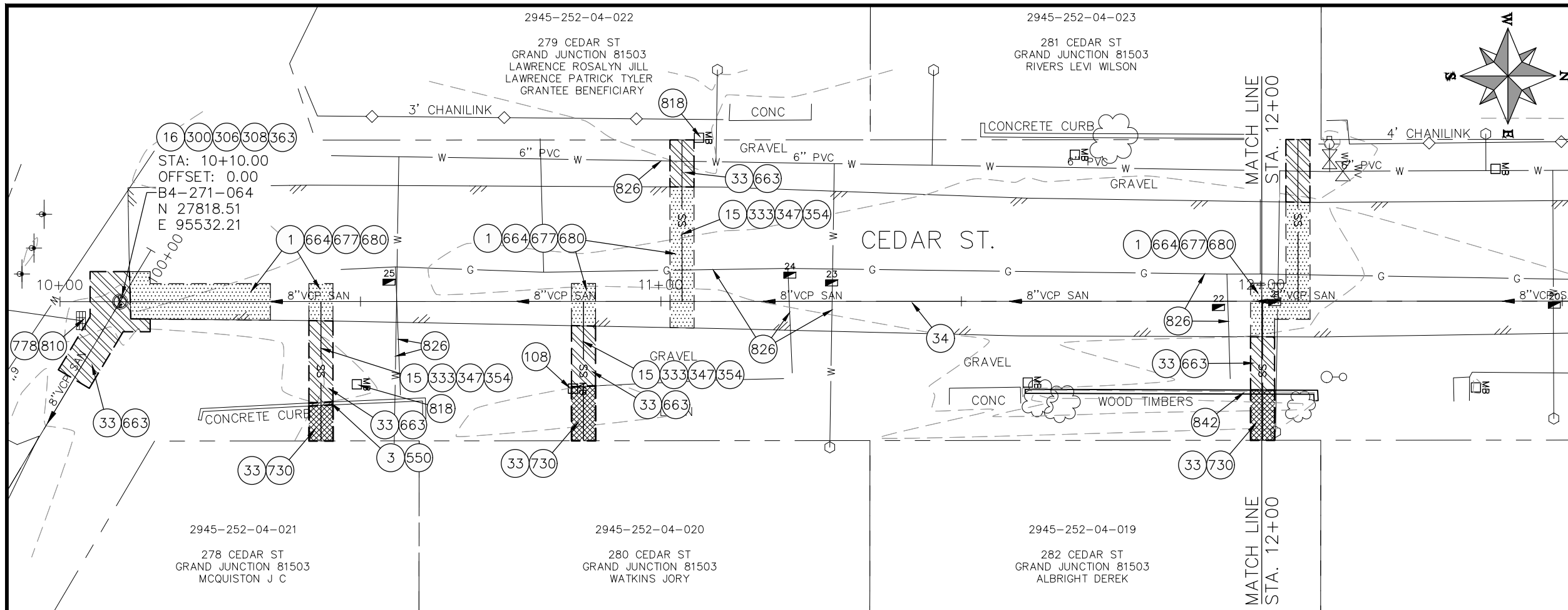
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SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
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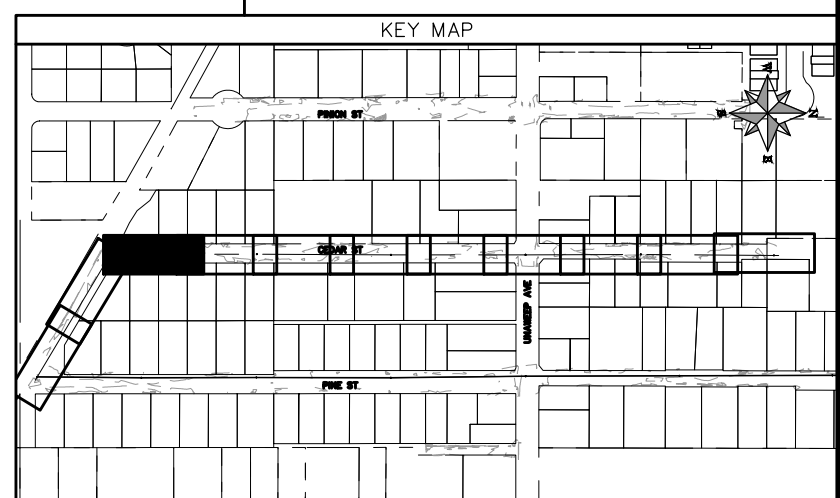
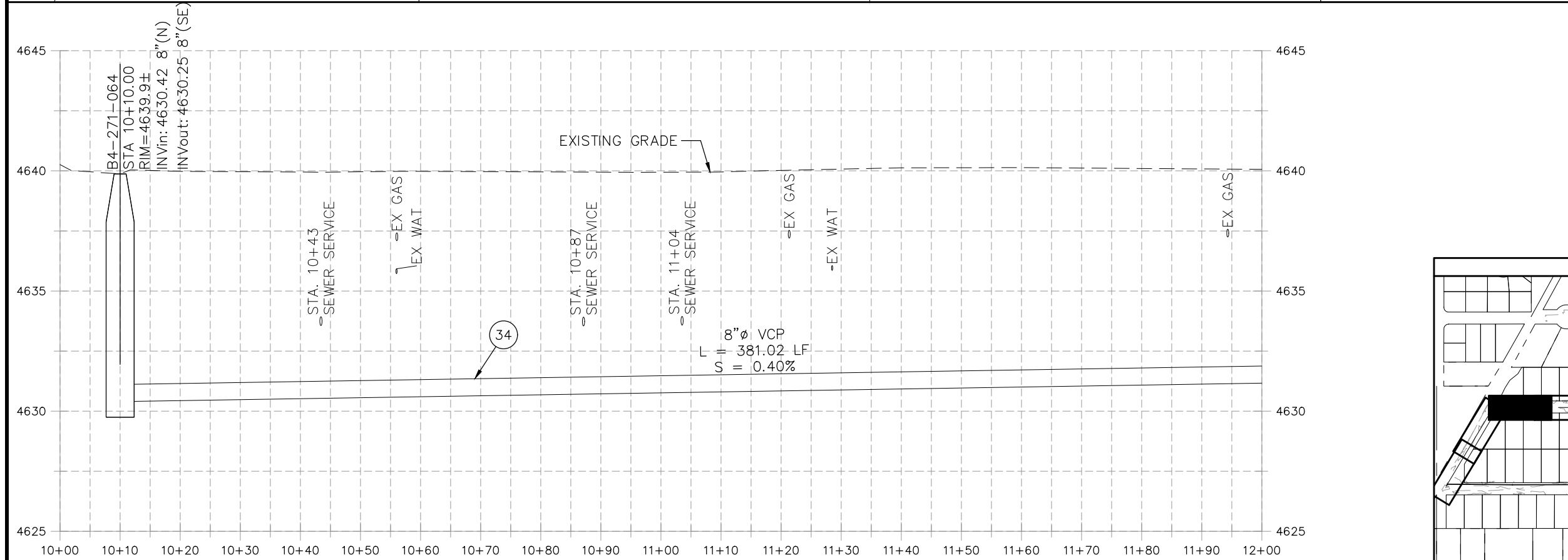


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINON ST PLAN AND PROFILE
STA 112+00 TO STA 114+00**



- CONSTRUCTION NOTES**
- 1 202 - 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.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 550 608.06 - CONCRETE CURB (6" WIDE, 6" HIGH)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
 - 810 PROTECT STORM DRAIN INLET
 - 818 PROTECT MAILBOX
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
 - 842 RESET WOOD TIMBERS
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



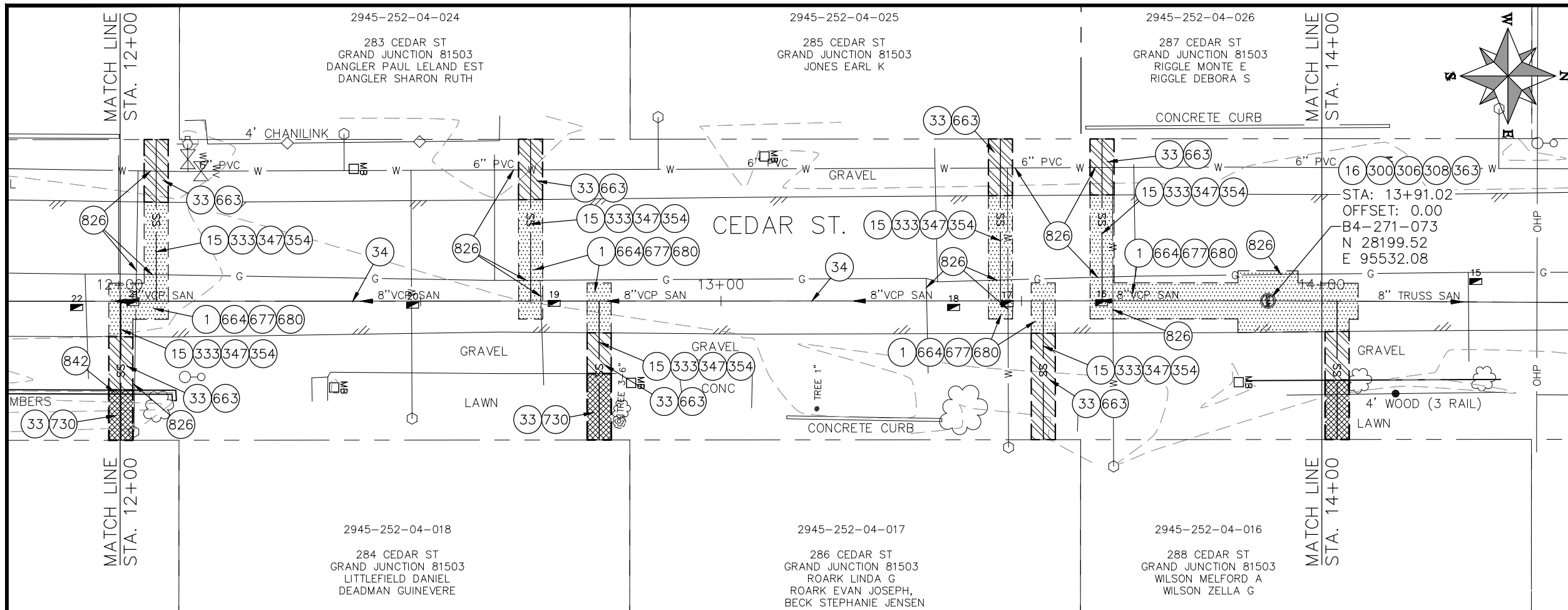
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REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

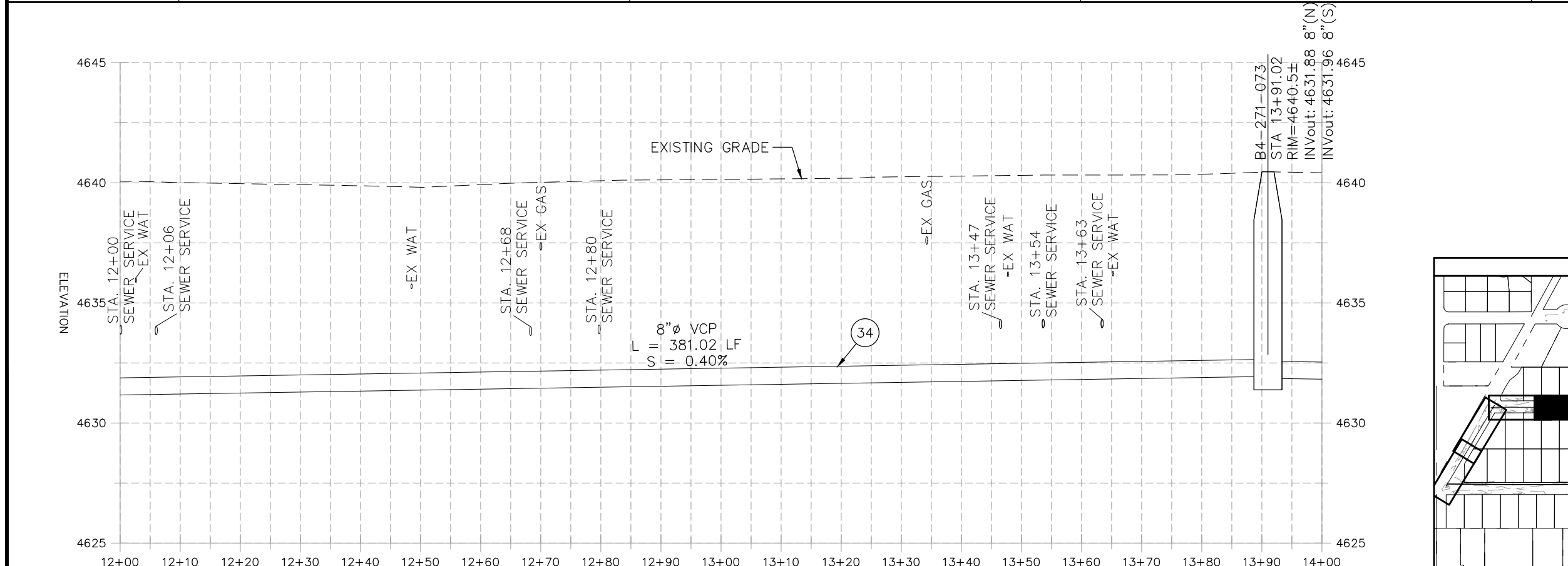


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ENGINEERING DIVISION**

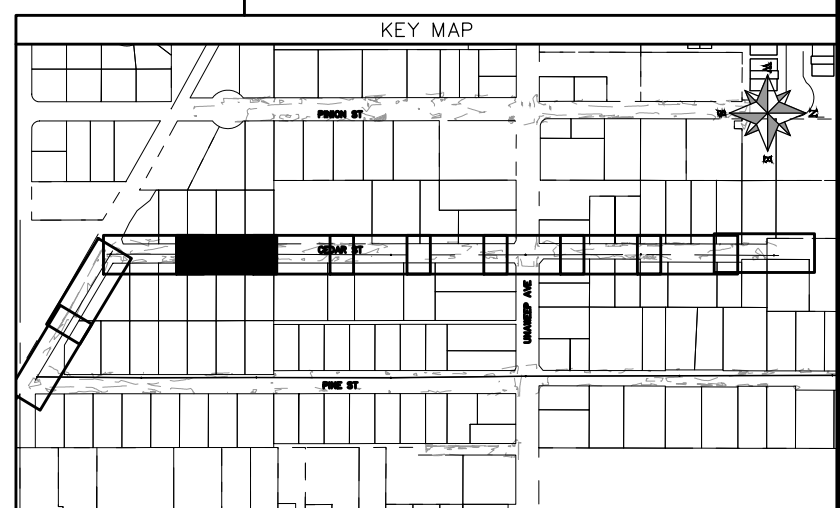
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 10+00 TO STA 12+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
 - 642 RESET WOOD TIMBERS



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



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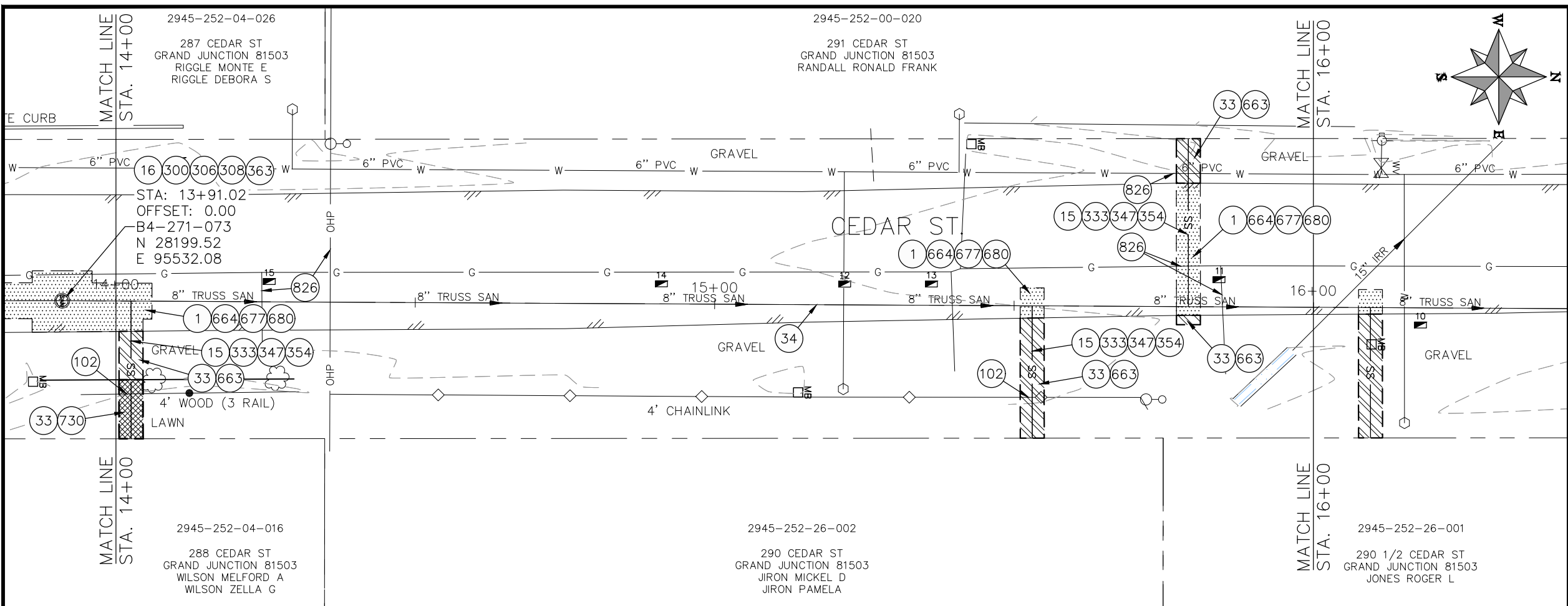
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DESIGNED BY DJM	CHECKED BY IRT	DATE 09/2022
APPROVED BY KH		DATE 09/2022

SCALES: PLAN & PROFILE
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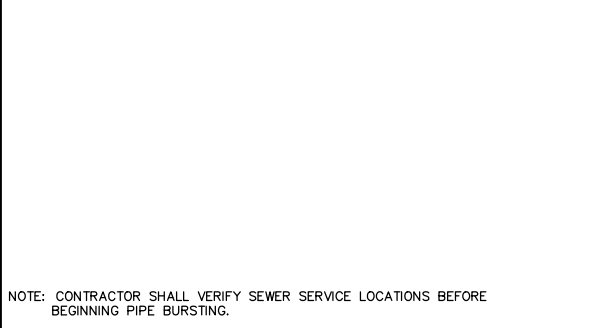
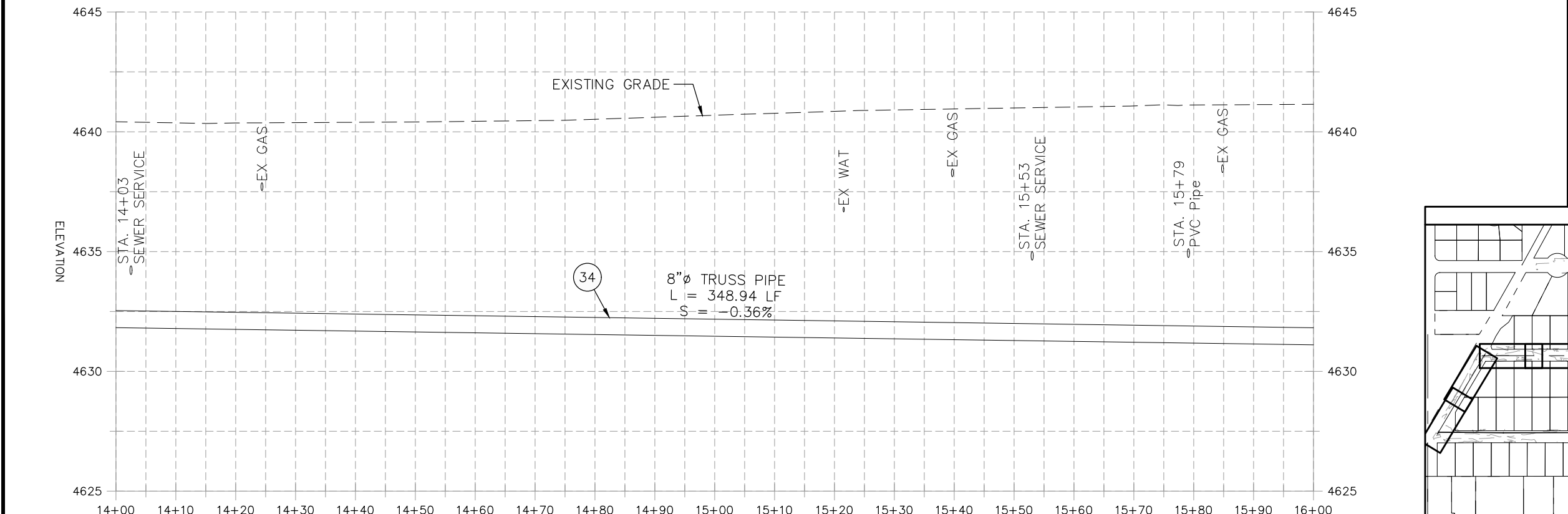


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 12+00 TO STA 14+00

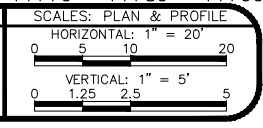


- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



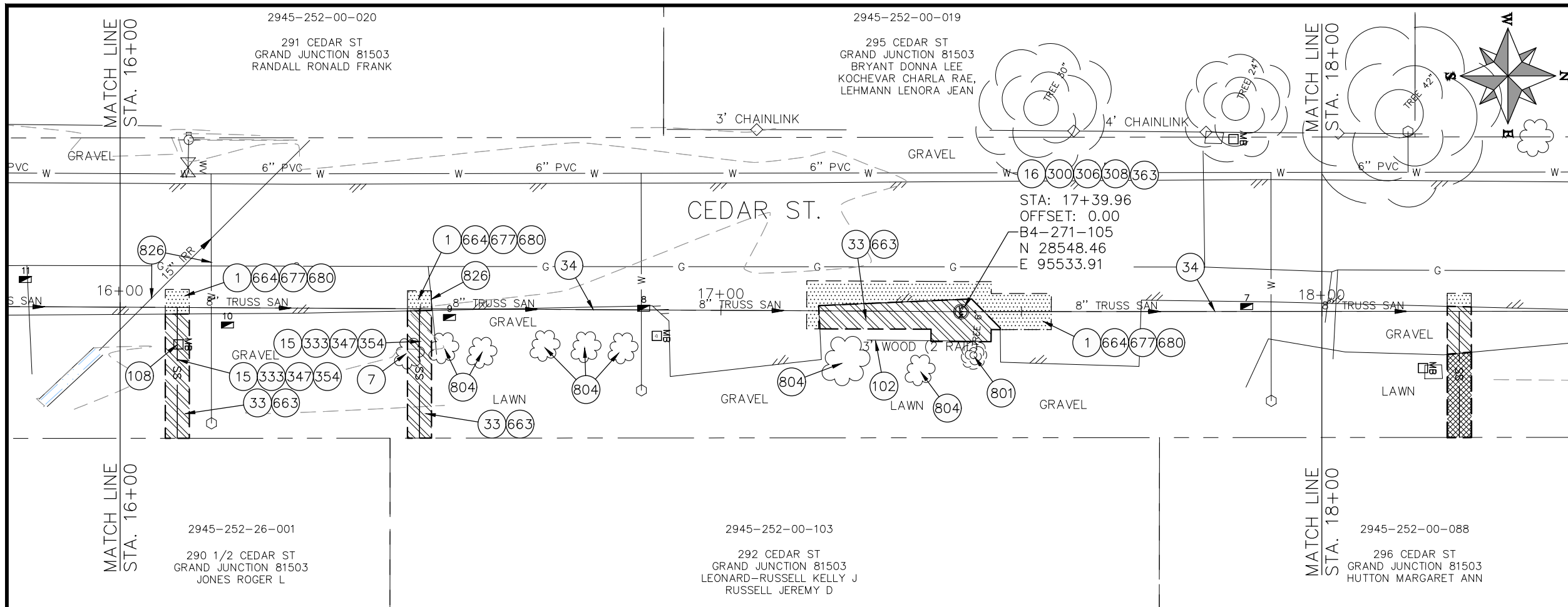
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DESIGNED BY DJM	CHECKED BY IRT	DATE 09/2022
APPROVED BY KH		DATE 09/2022

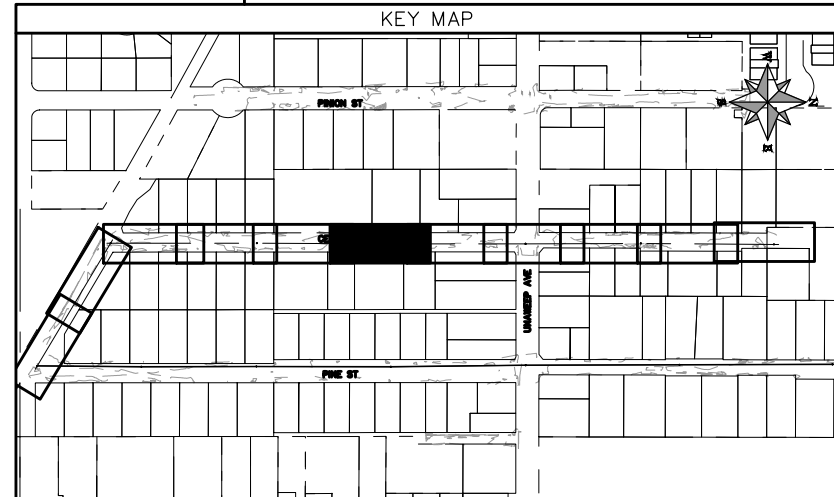
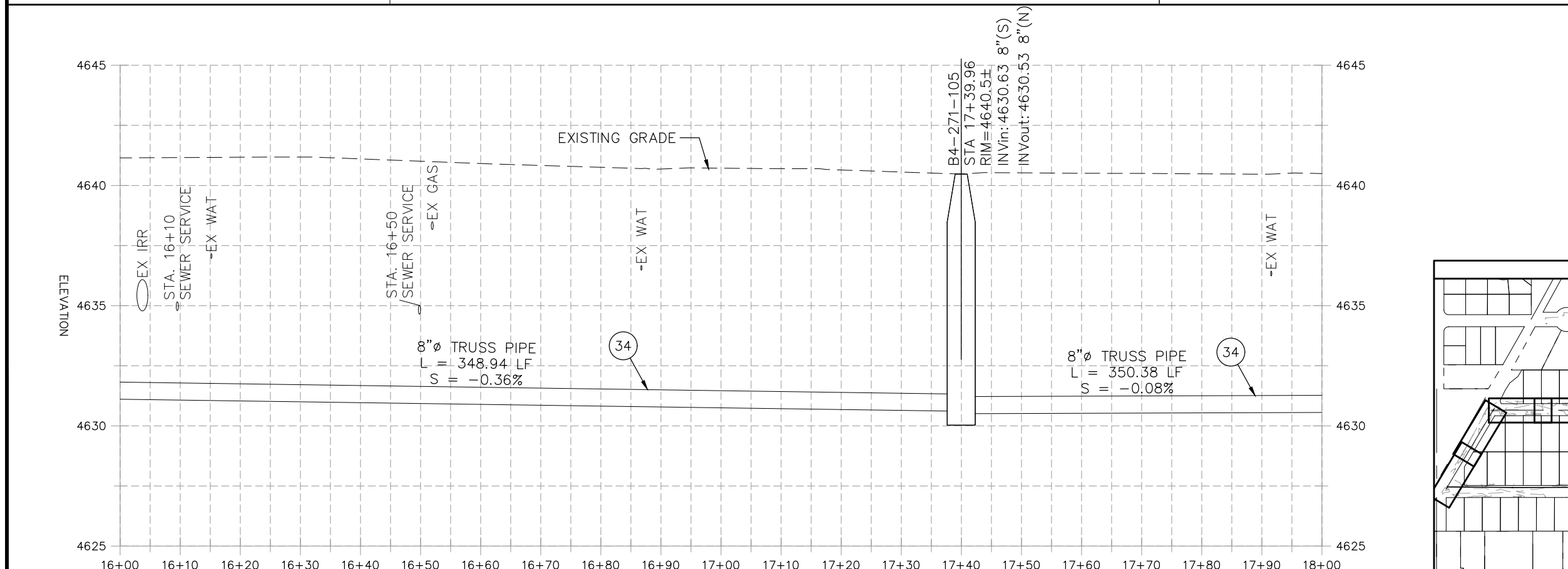


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 14+00 TO STA 16+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 7 202 - REMOVAL OF SHRUB
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 108 210 - RESET MAILBOX TO NEW 4X4 POST.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 804 PROTECT SHRUB
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



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REVISION Δ XXX	202X	
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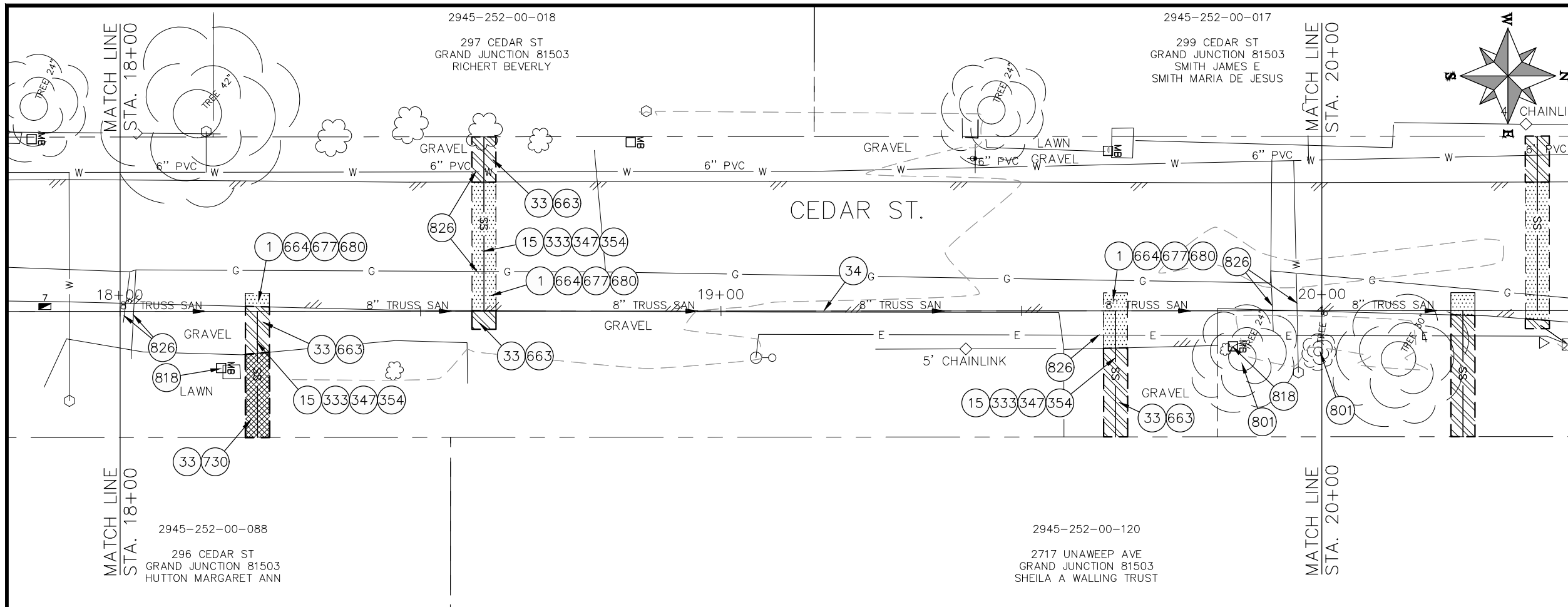
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09/2022	DJM	
09/2022	IRT	
09/2022	KH	

PROJECT NO: F001642
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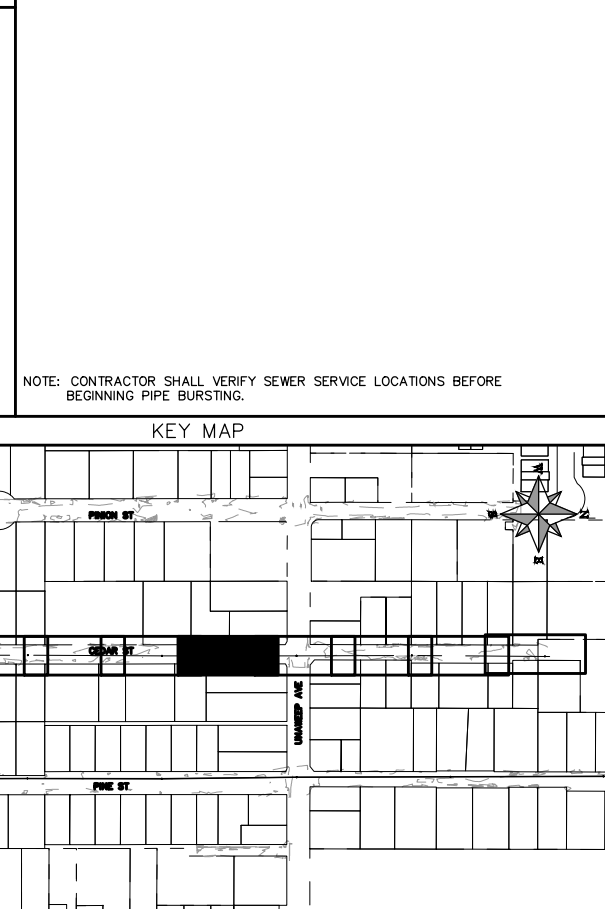
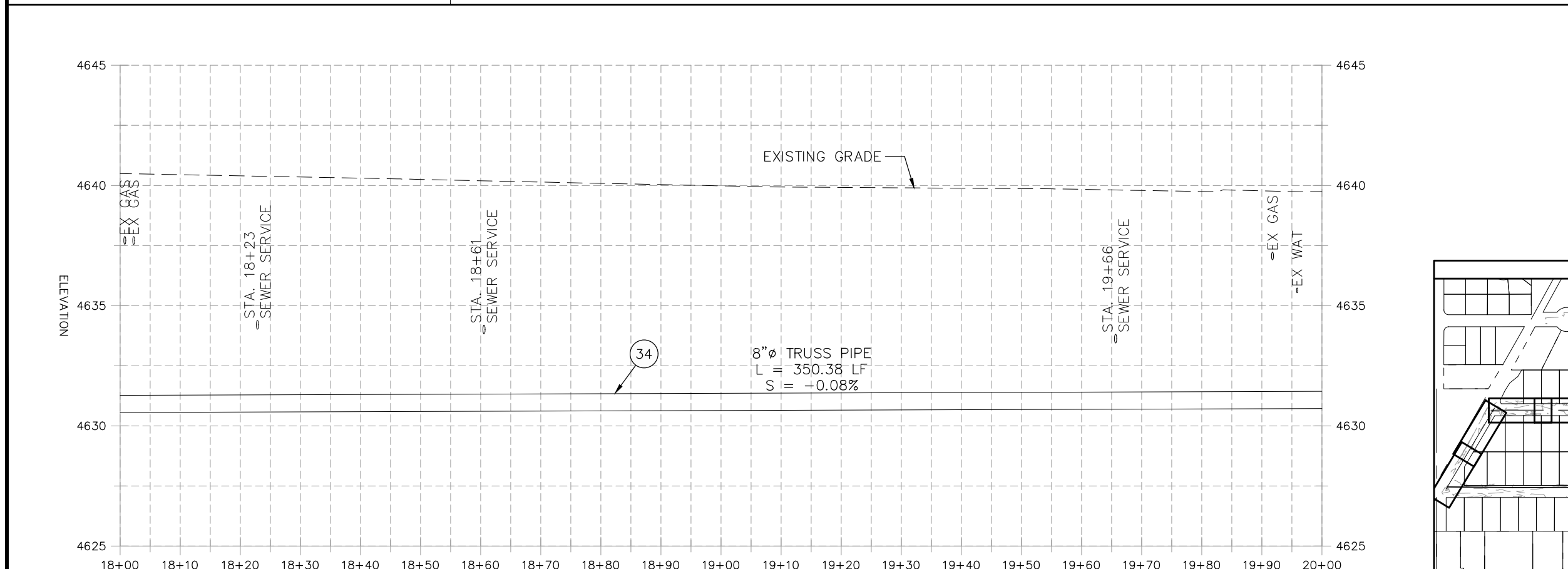


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 16+00 TO STA 18+00**



- CONSTRUCTION NOTES**
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - ③③ 202 - REMOVE EXISTING SURFACE MATERIAL.
 - ③④ SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - ③③③ 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - ③④⑦ 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - ③⑤④ 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - ⑥⑥③ 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - ⑥⑥④ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - ⑥⑦⑦ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - ⑥⑧① 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - ⑦③① 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - ⑧①① PROTECT TREE
 - ⑧①⑧ PROTECT MAILBOX.
 - ⑧②⑥ PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



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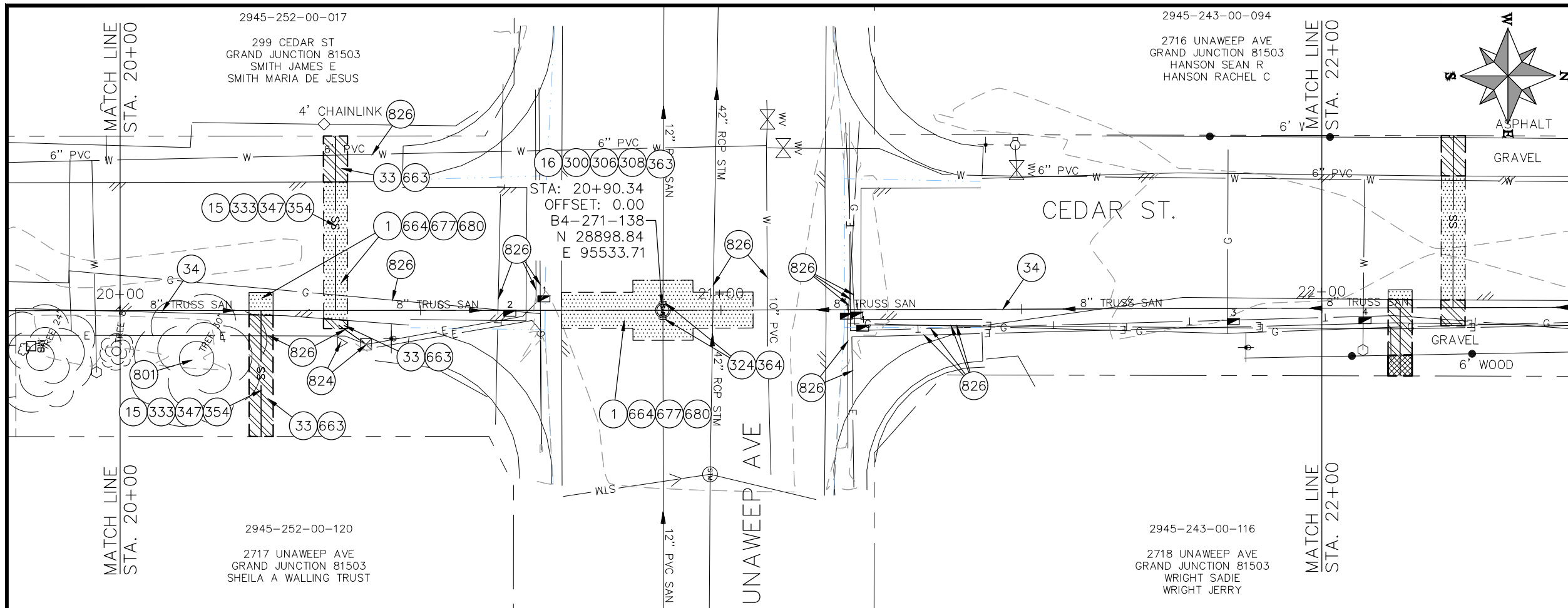
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DESIGNED BY DJM	CHECKED BY IRT	DATE 09/2022
APPROVED BY KH		DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'

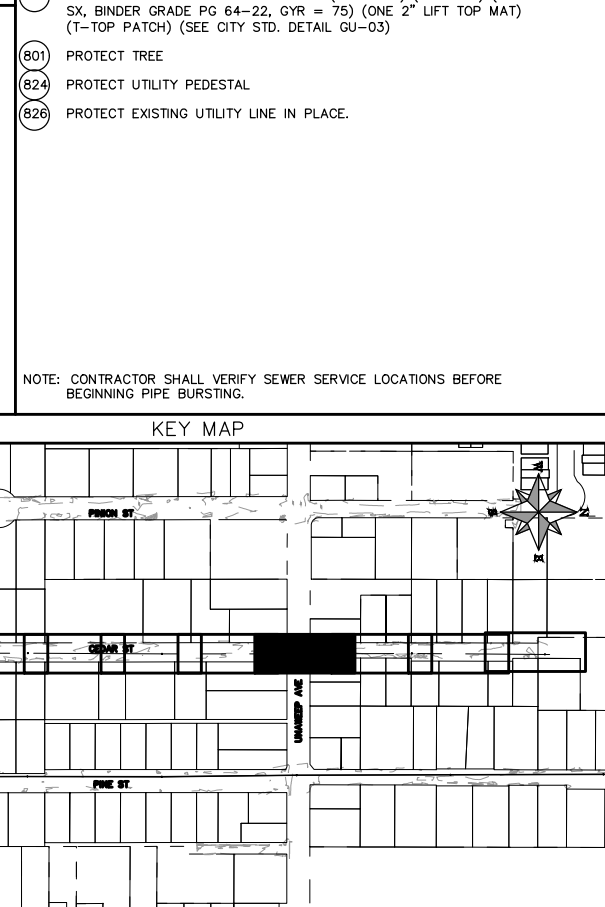
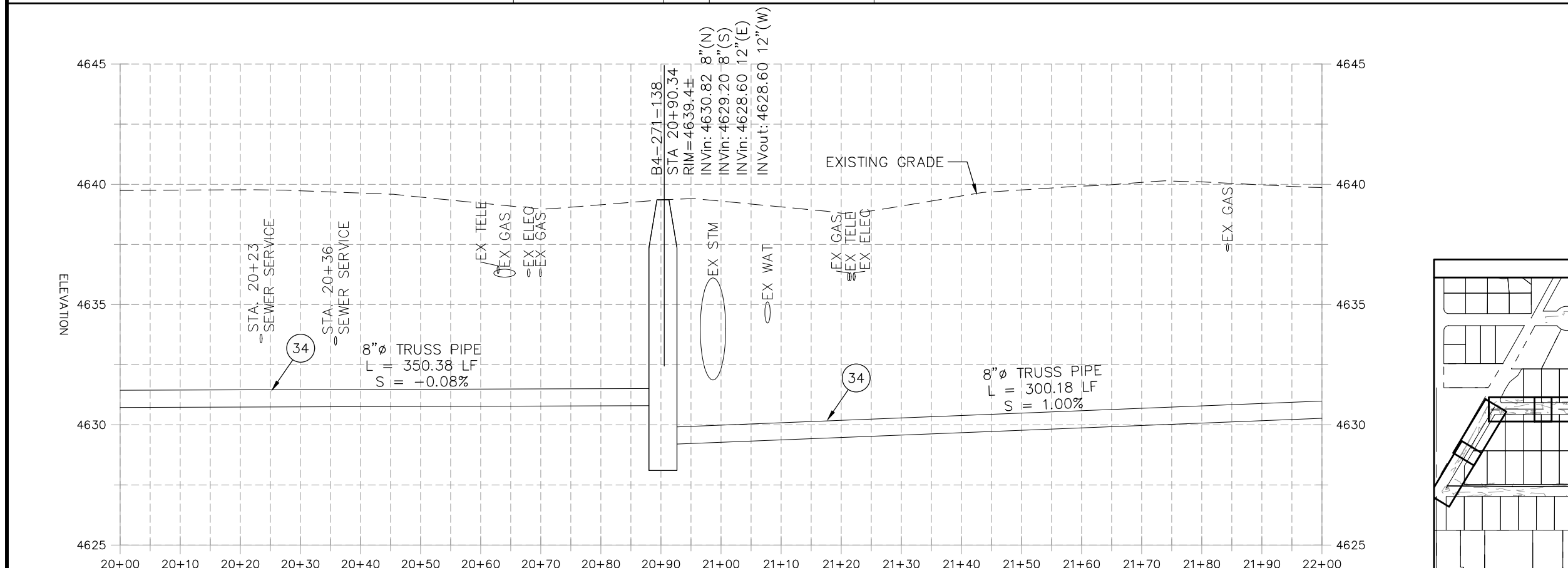


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 18+00 TO STA 20+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 824 PROTECT UTILITY PEDESTAL
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DATE	DESCRIPTION
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REVISION Δ XXX	202X	
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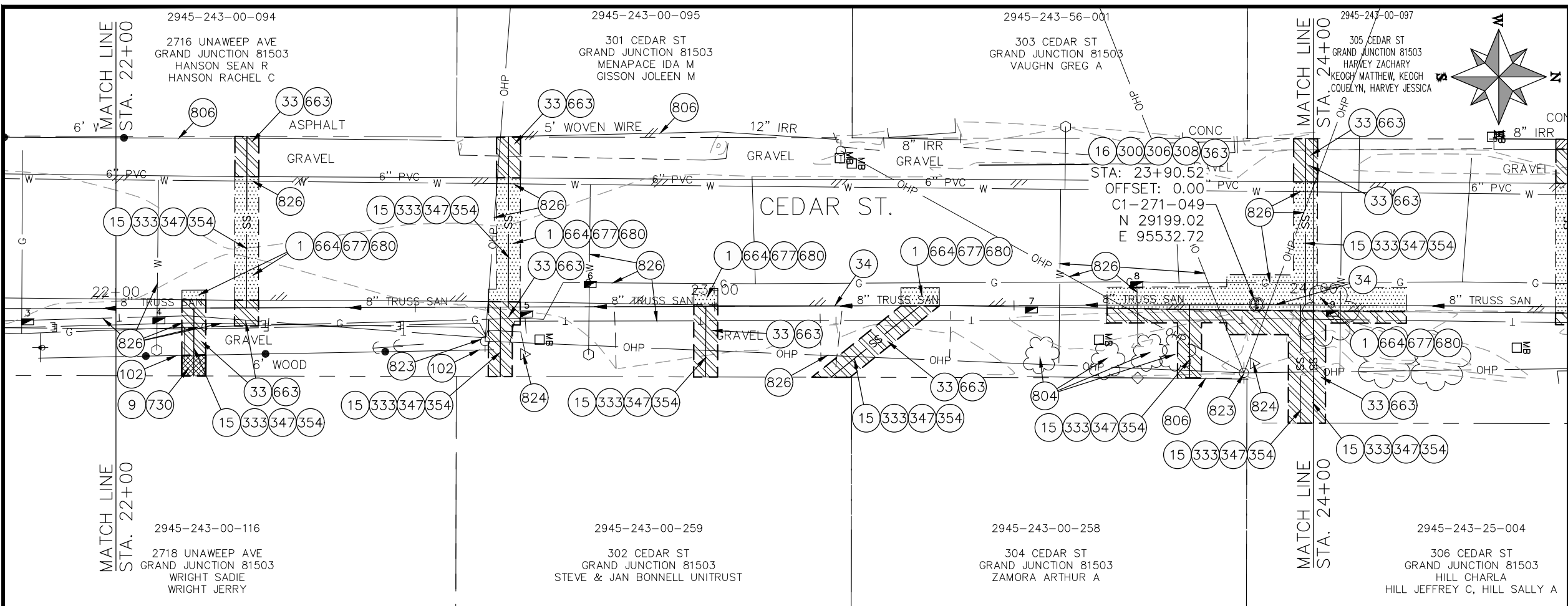
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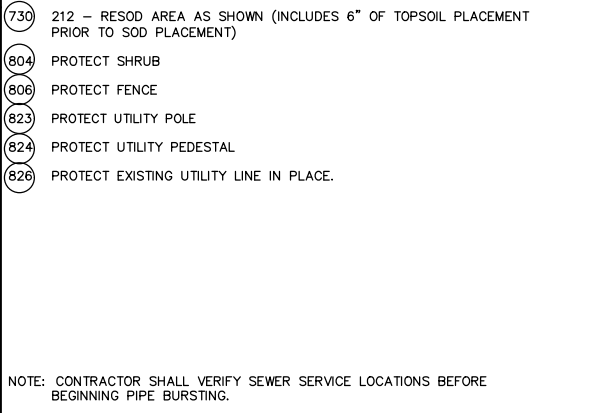
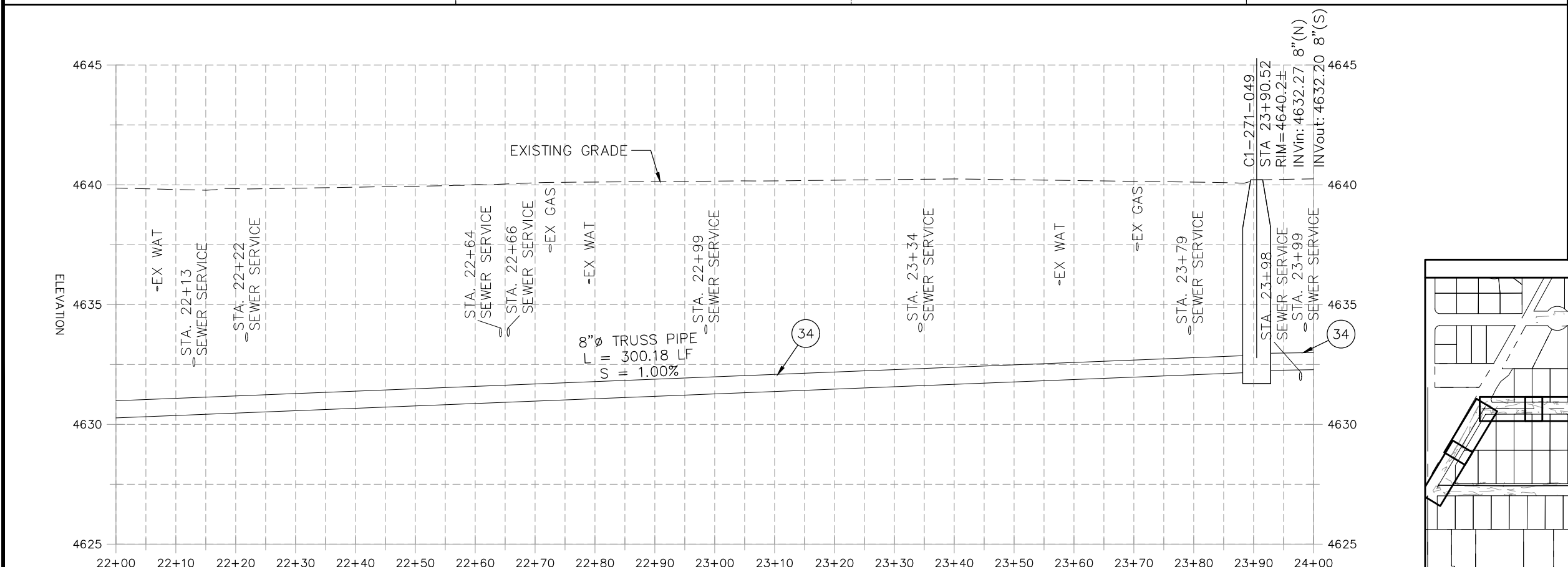


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 20+00 TO STA 22+00**

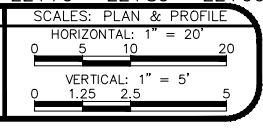


- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND LUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 804 PROTECT SHRUB
 - 806 PROTECT FENCE
 - 823 PROTECT UTILITY POLE
 - 824 PROTECT UTILITY PEDESTAL
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



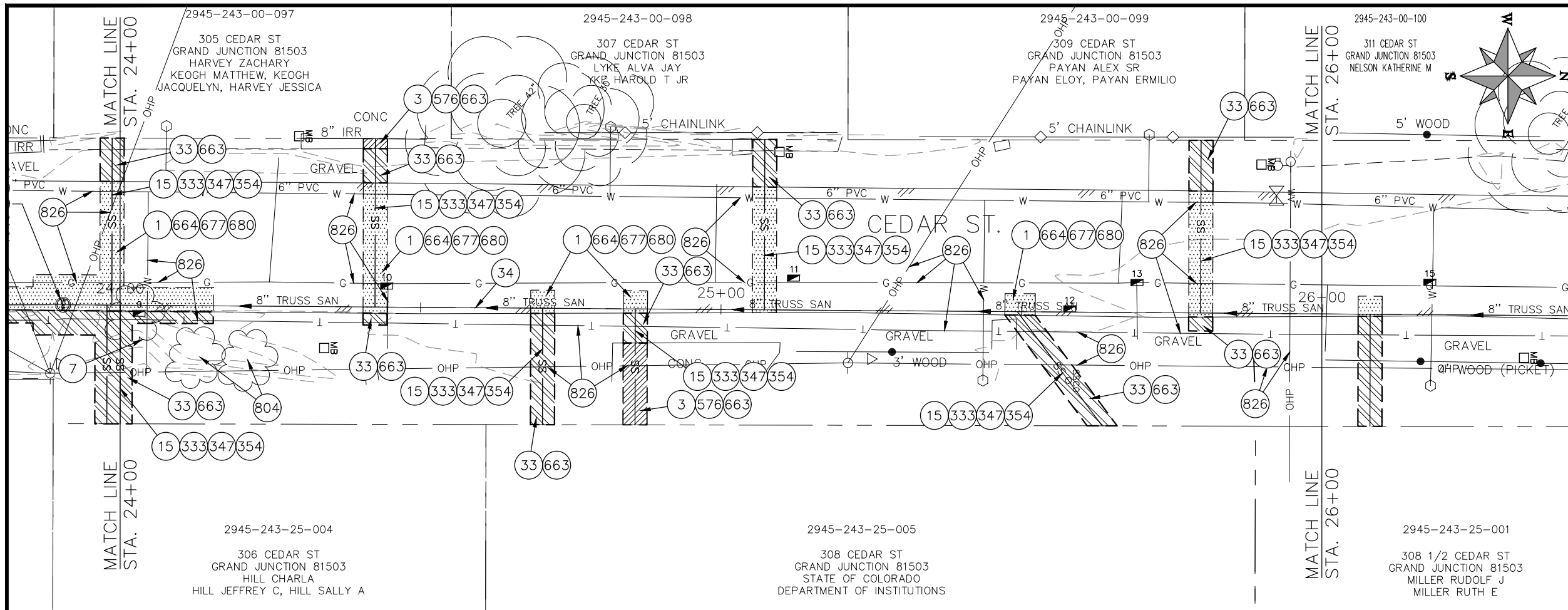
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REVISION Δ XXX	202X	
REVISION Δ XXX	202X	
REVISION Δ XXX	202X	
REVISION Δ XXX	202X	

PROJECT NO. F001642	DRAWN BY DJM	DATE 09/2022
DESIGNED BY DJM	CHECKED BY IRT	DATE 09/2022
APPROVED BY KH		DATE 09/2022

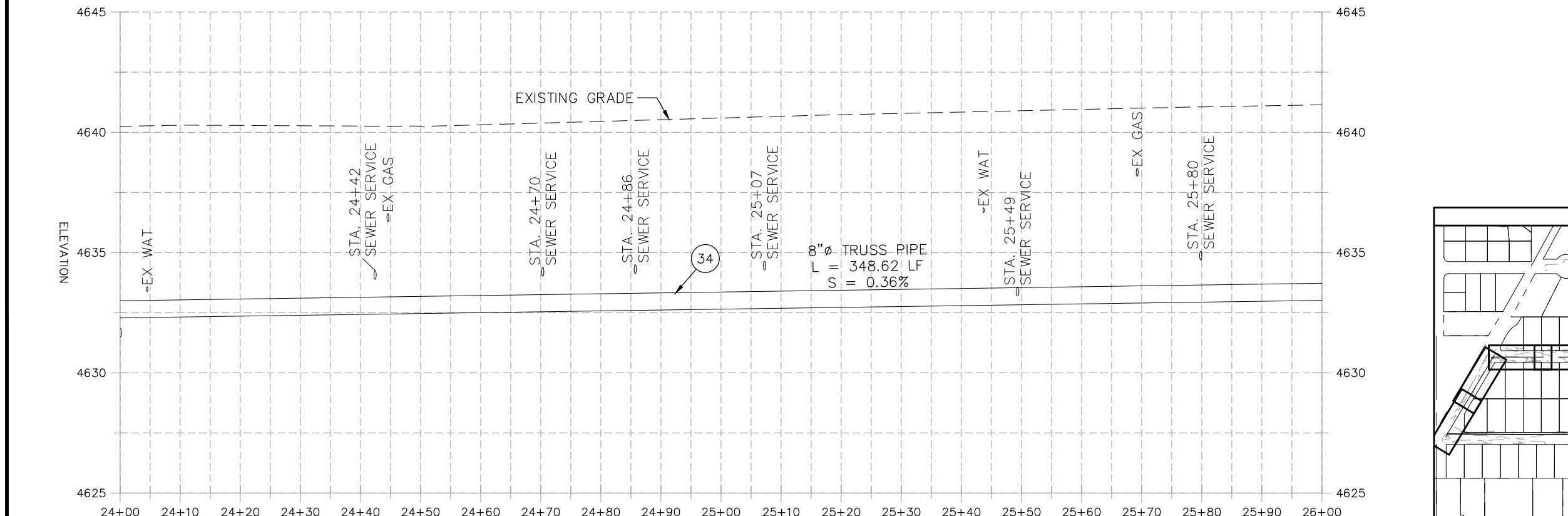


**PUBLIC WORKS
ENGINEERING DIVISION**

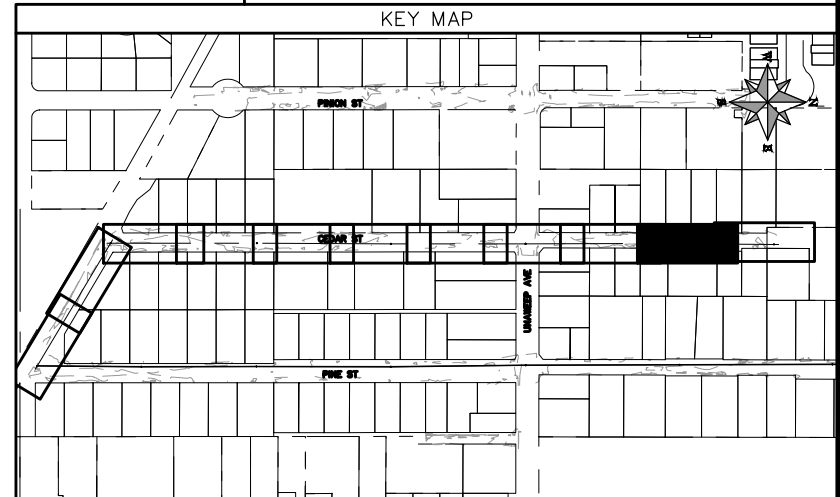
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 22+00 TO STA 24+00**



- ### CONSTRUCTION NOTES
- 1 202 - 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.
 - 7 202 - REMOVAL OF SHRUBS
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 804 PROTECT SHRUB
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



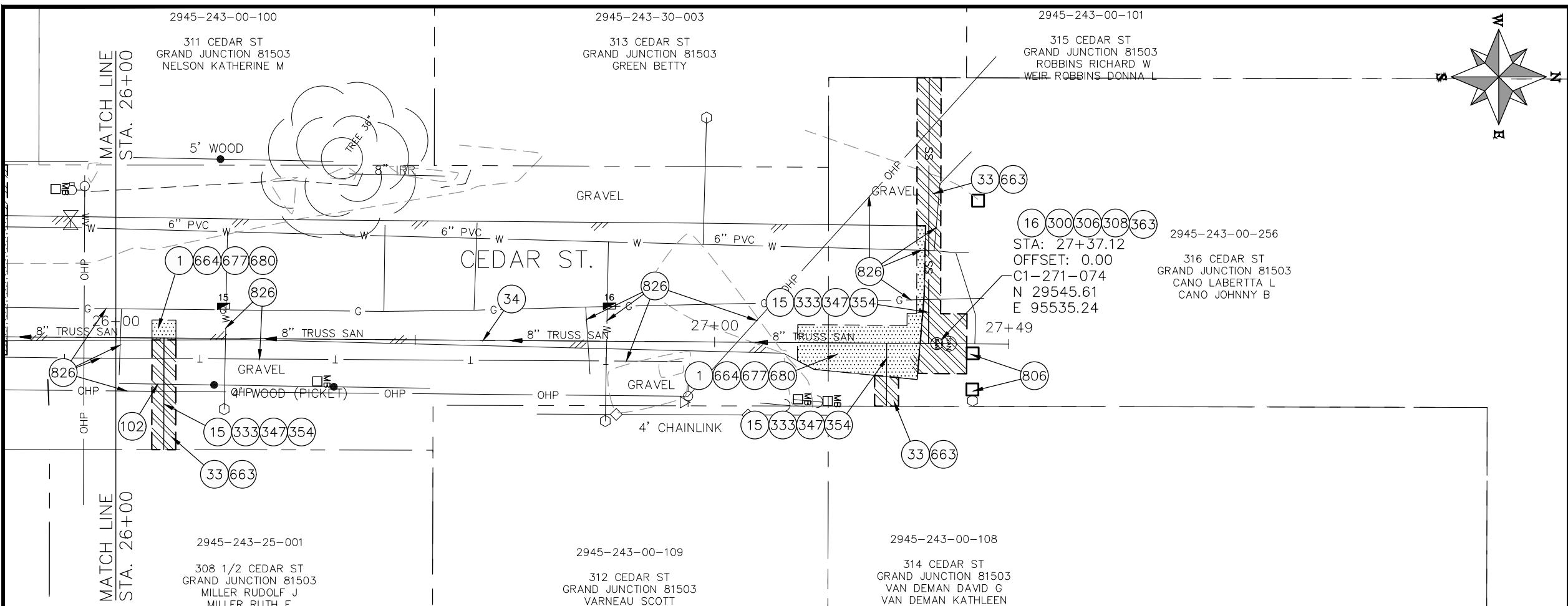
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REVISION Δ XXX	- 202X	DRAWN BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DESIGNED BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 0 5 10 20
 VERTICAL: 1" = 5'
 0 1.25 2.5 5

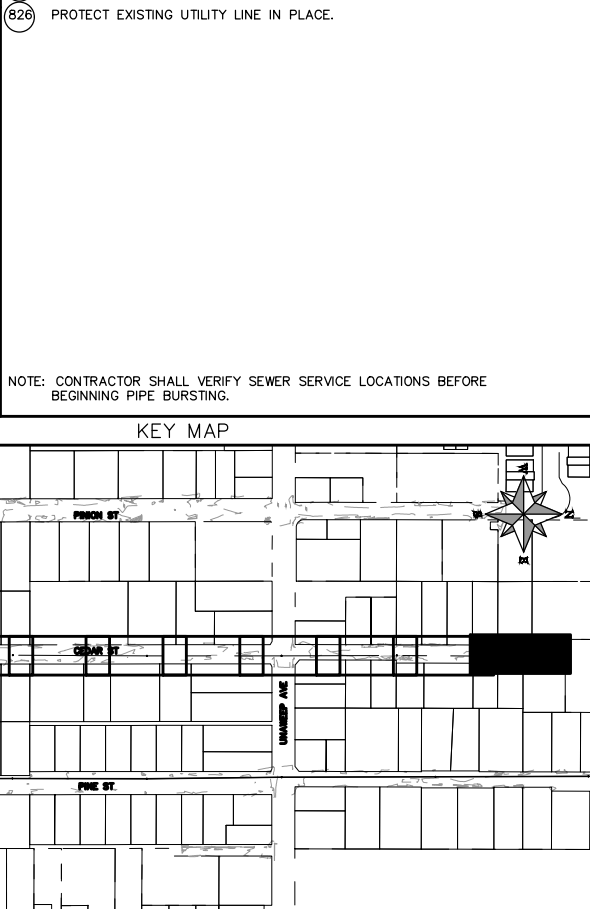
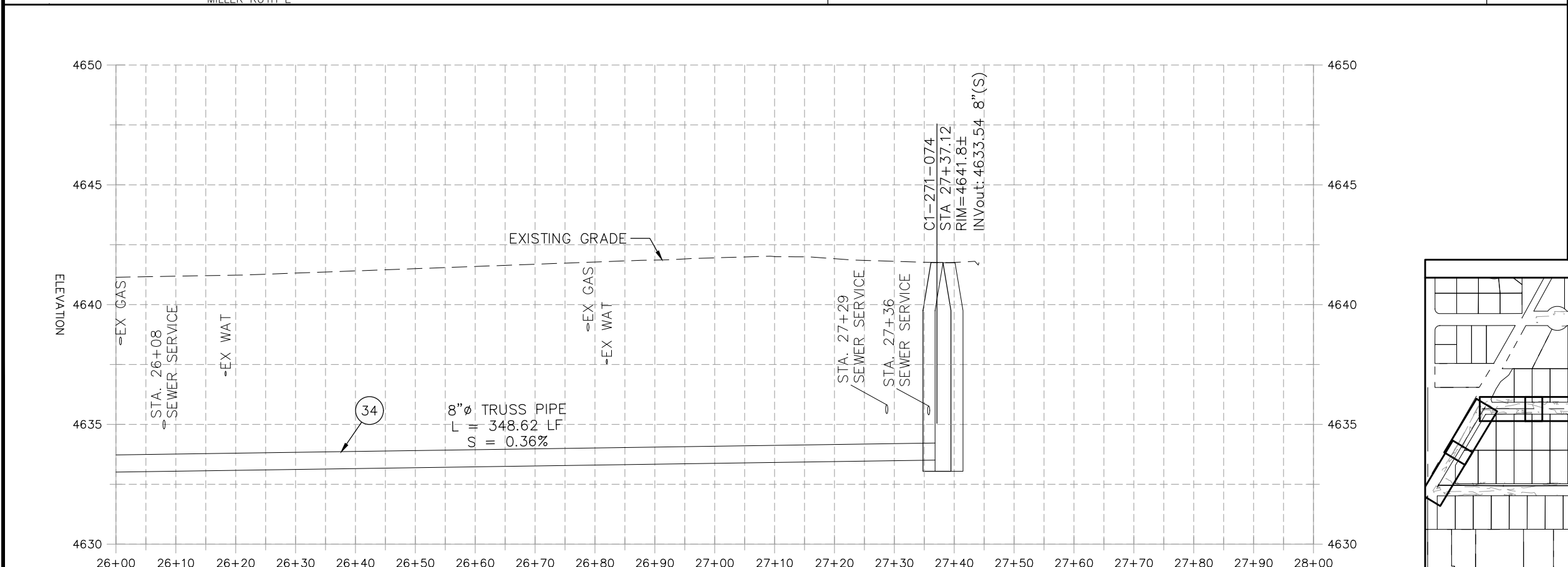


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 24+00 TO STA 26+00



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 806 PROTECT FENCE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



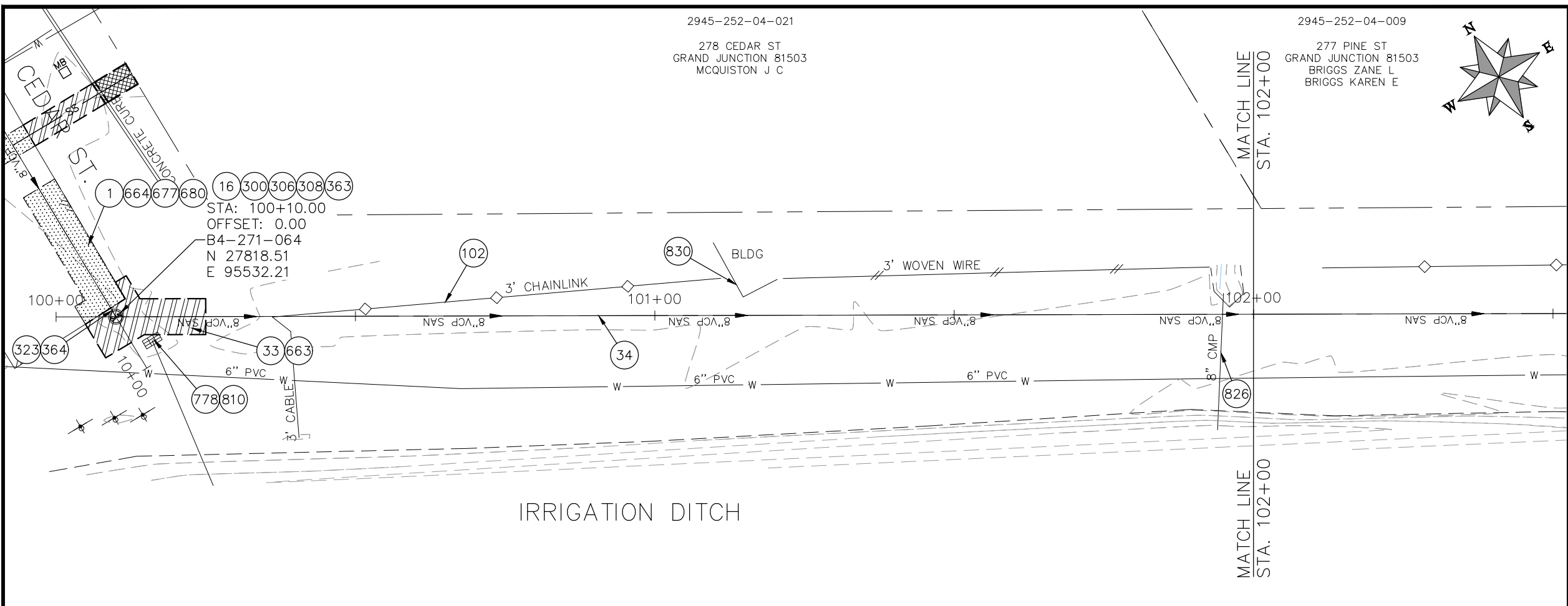
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REVISION Δ XXX	- 202X	DESIGNED BY DJM DATE 09/2022	
REVISION Δ XXX	- 202X	CHECKED BY IRT DATE 09/2022	
REVISION Δ XXX	- 202X	APPROVED BY KH DATE 09/2022	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

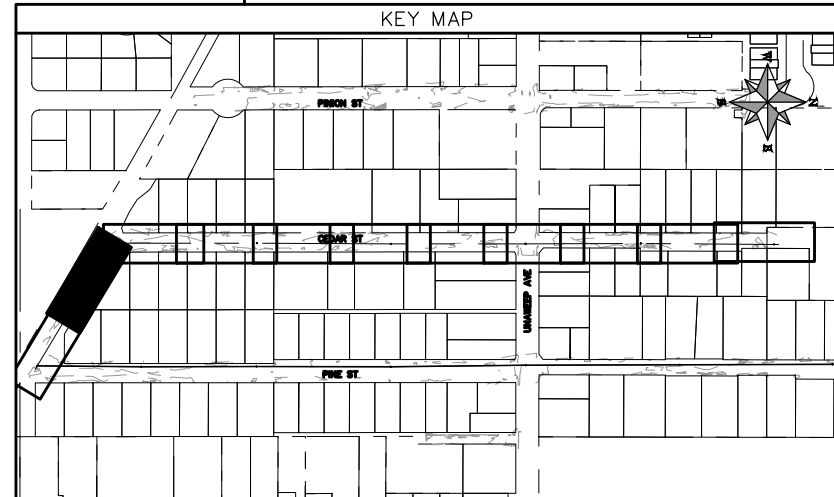
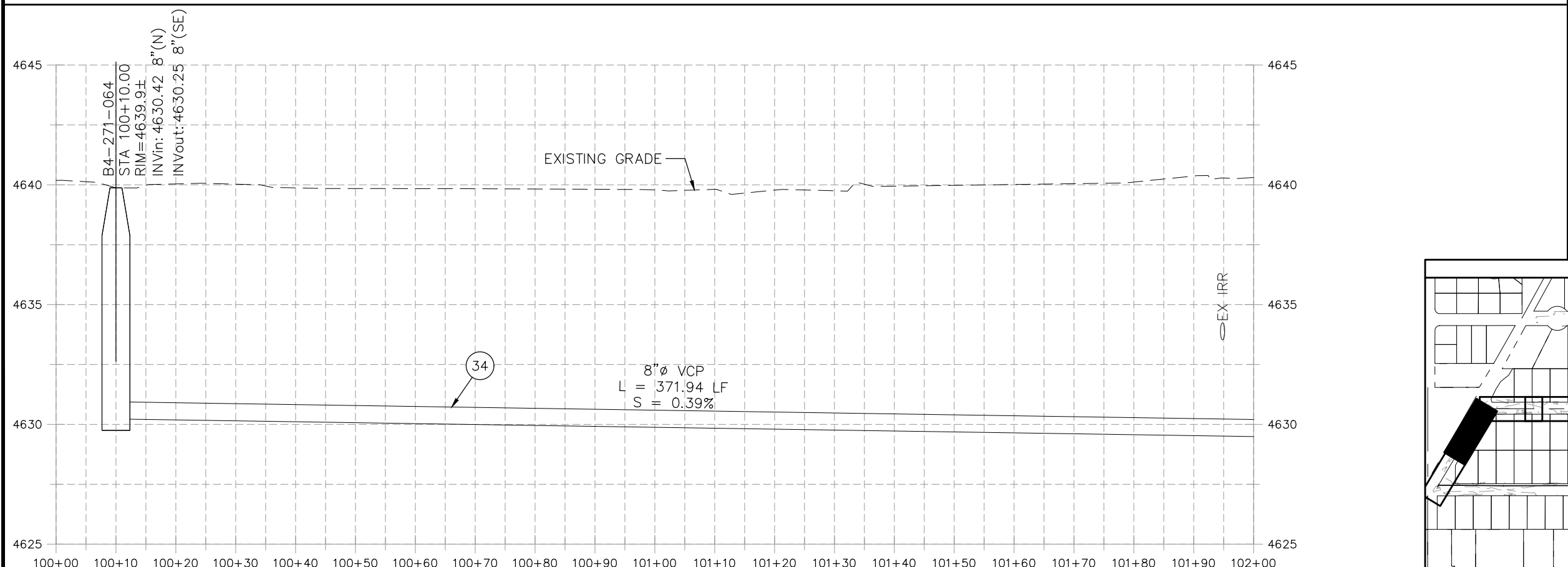


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST PLAN AND PROFILE
STA 26+00 TO STA 28+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
 - 810 PROTECT STORM DRAIN INLET
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
 - 830 PROTECT BUILDING
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE	PROJECT NO.	DATE
REVISION Δ XXX		202X	F001642	09/2022
REVISION Δ XXX		202X		09/2022
REVISION Δ XXX		202X		09/2022
REVISION Δ XXX		202X		09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

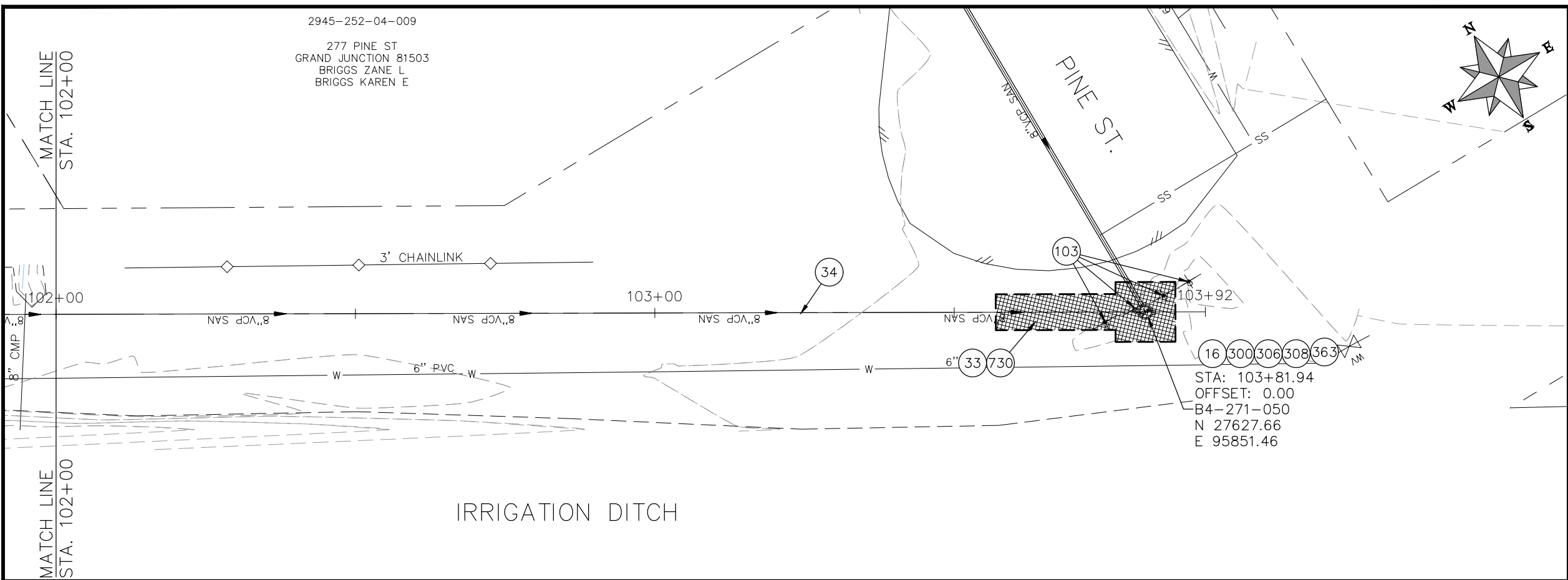


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST TO PINE ST PLAN AND PROFILE
STA 100+00 TO STA 102+00**

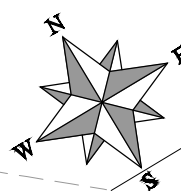
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277 PINE ST
GRAND JUNCTION 81503
BRIGGS ZANE L
BRIGGS KAREN E



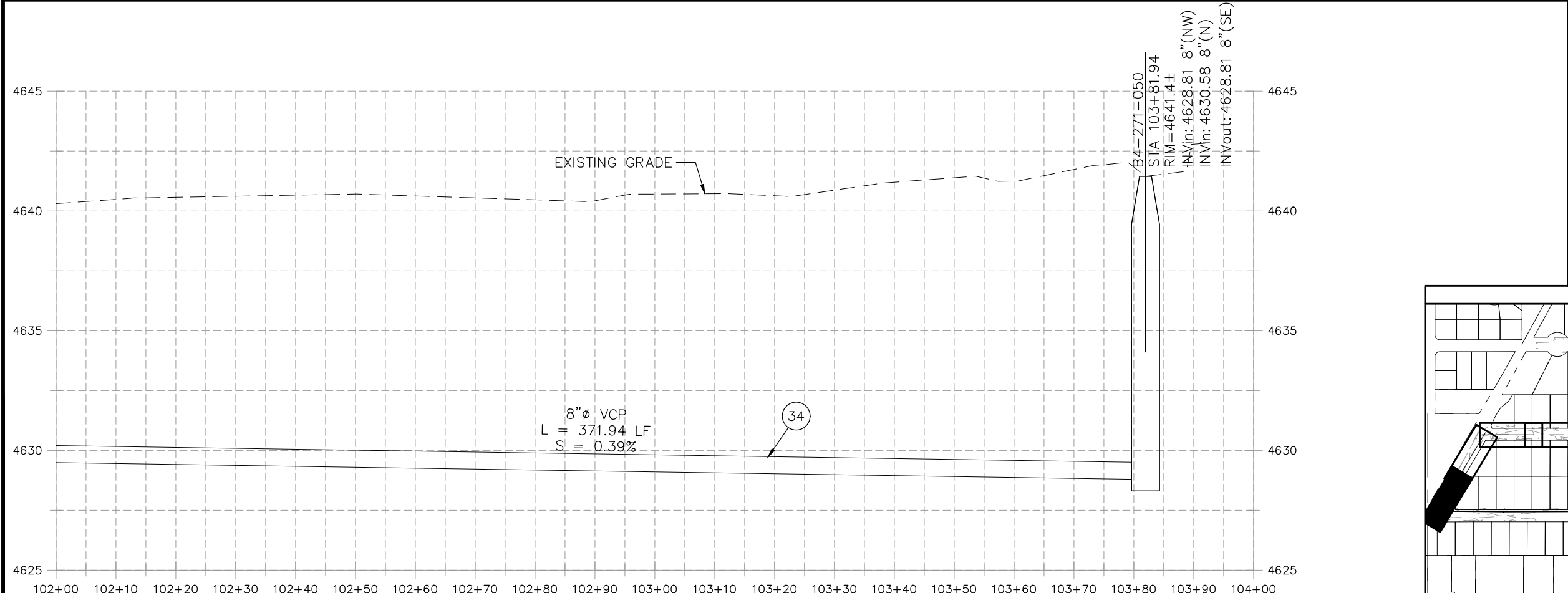
CONSTRUCTION NOTES

- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 202 - REMOVE EXISTING SURFACE MATERIAL.
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
- 103 210 - RESET SIGN.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
- 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
- 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
- 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)

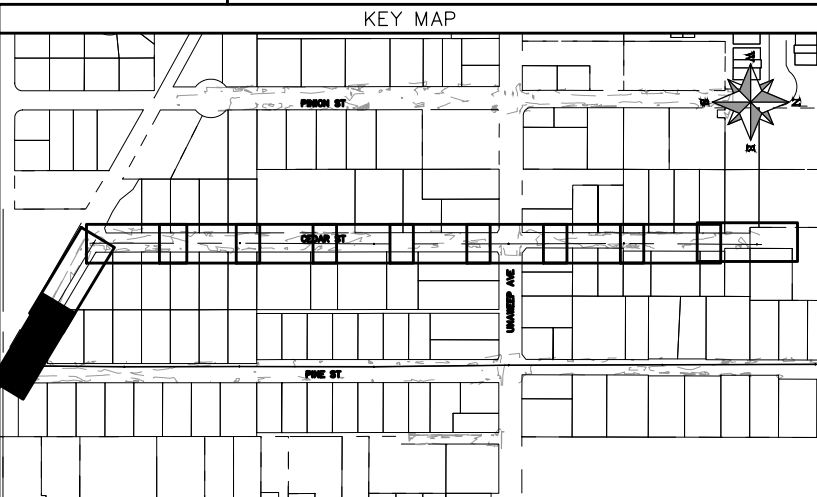


STA: 103+81.94
 OFFSET: 0.00
 B4-271-050
 N 27627.66
 E 95851.46

IRRIGATION DITCH



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



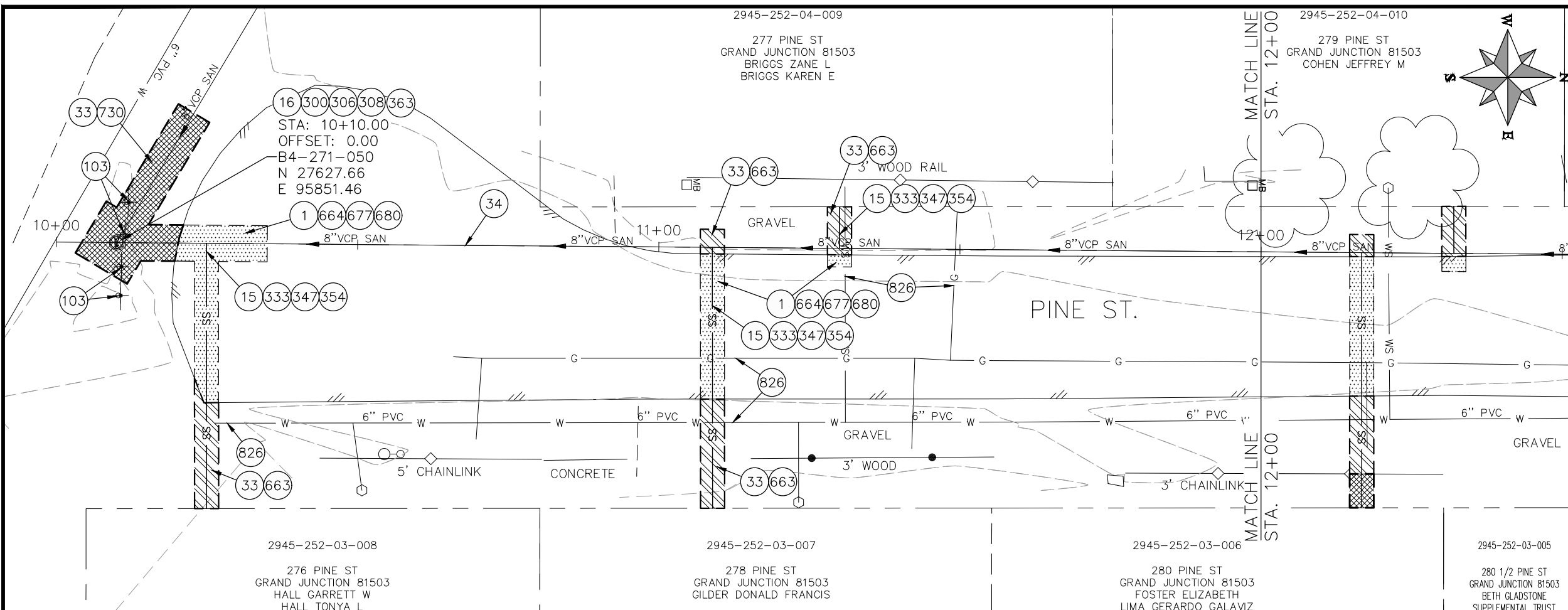
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

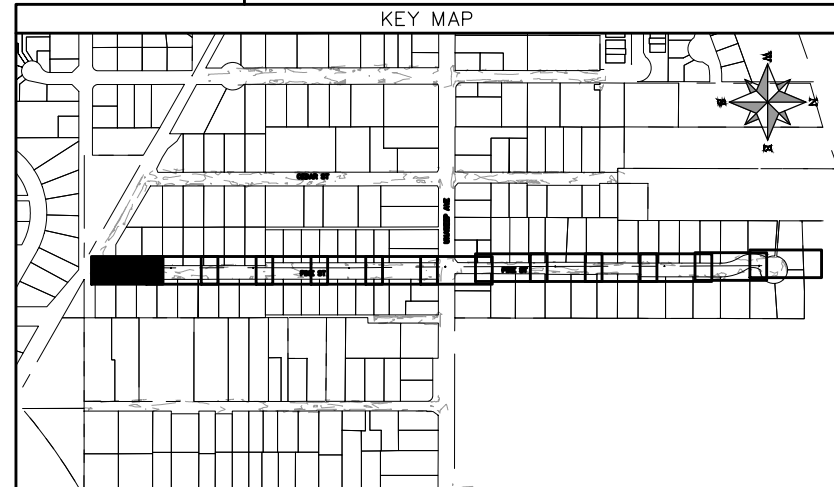
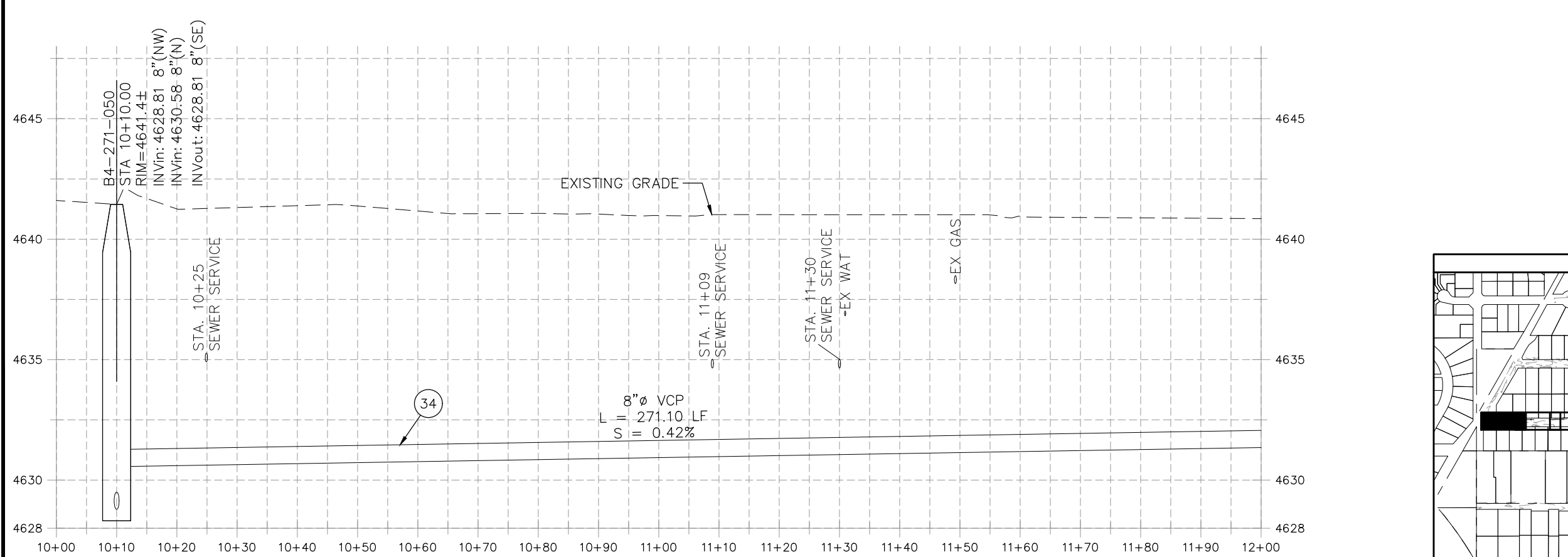


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT - PARSES 2-3
CEDAR ST TO PINE ST PLAN AND PROFILE
STA 102+00 TO STA 104+00



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 103 210 - RESET SIGN.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



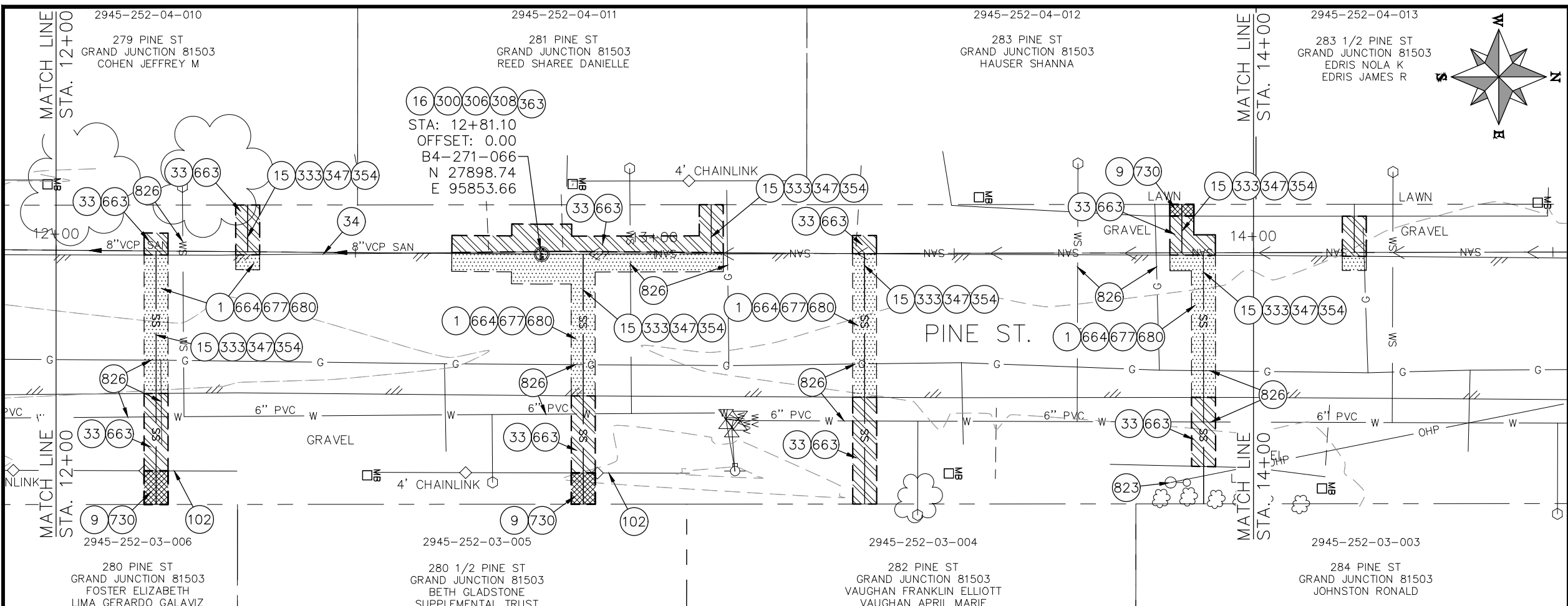
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

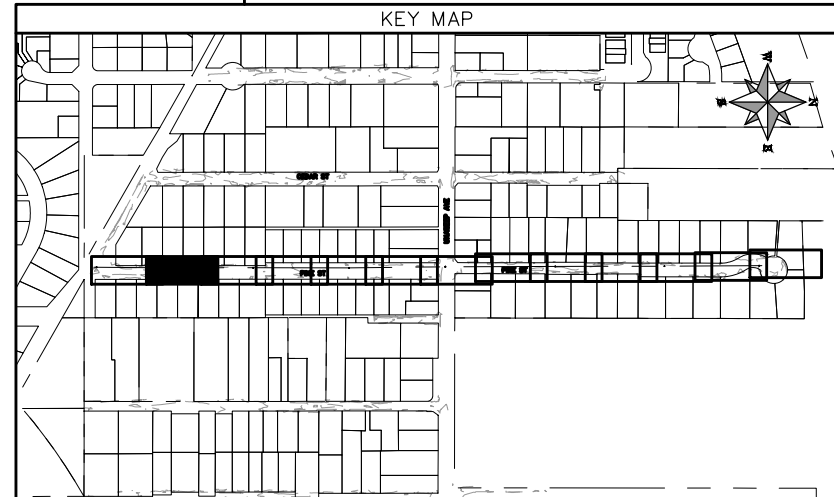
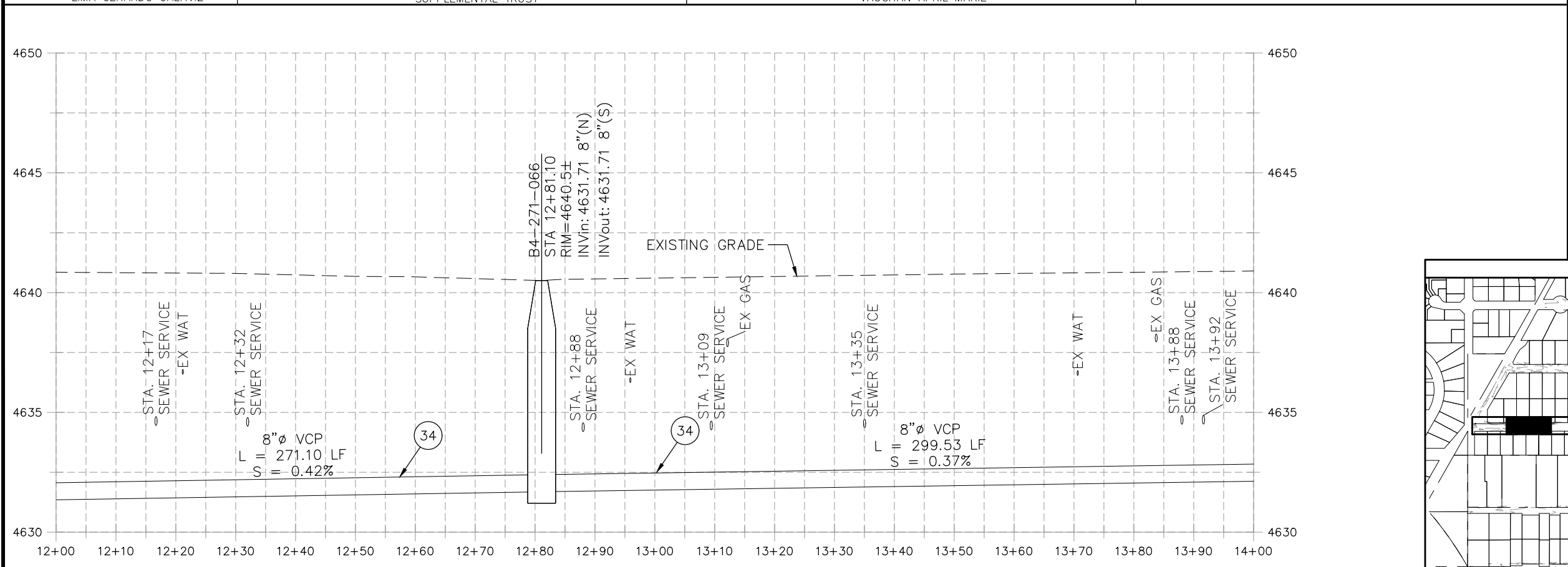


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 10+00 TO STA 12+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



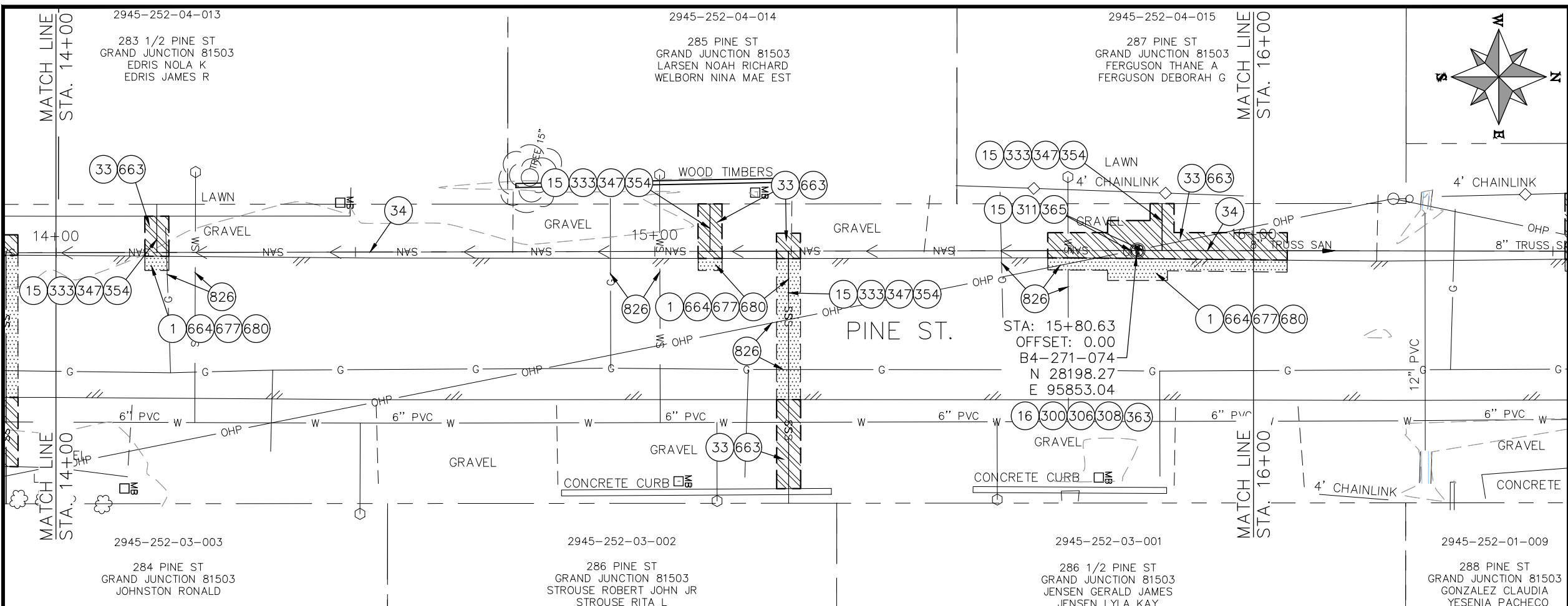
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REVISION Δ XXX	- 202X	DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DJM	DATE 09/2022
REVISION Δ XXX	- 202X	IRT	DATE 09/2022
REVISION Δ XXX	- 202X	KH	DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

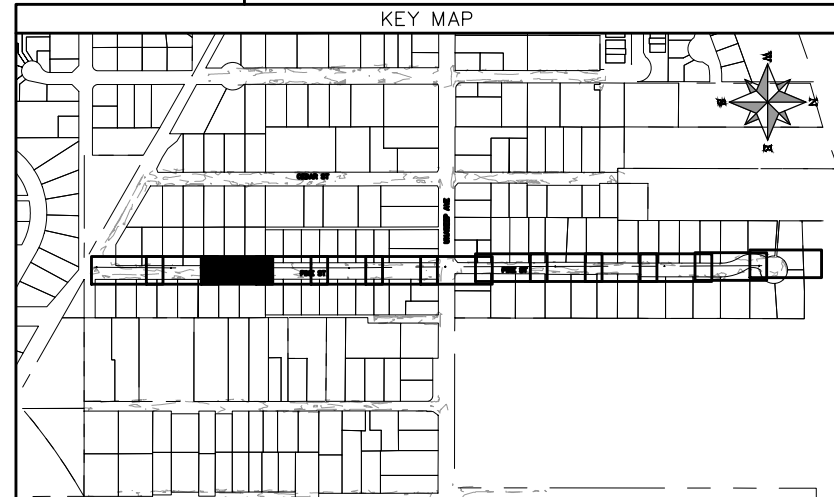
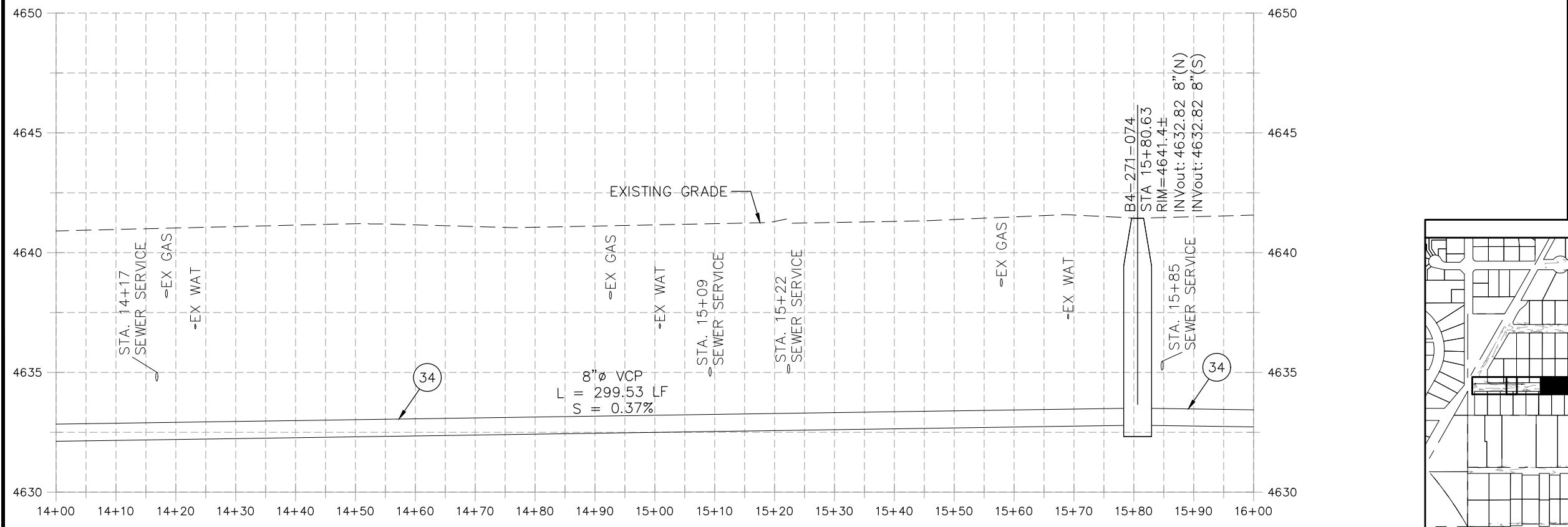


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 12+00 TO STA 14+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA EODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



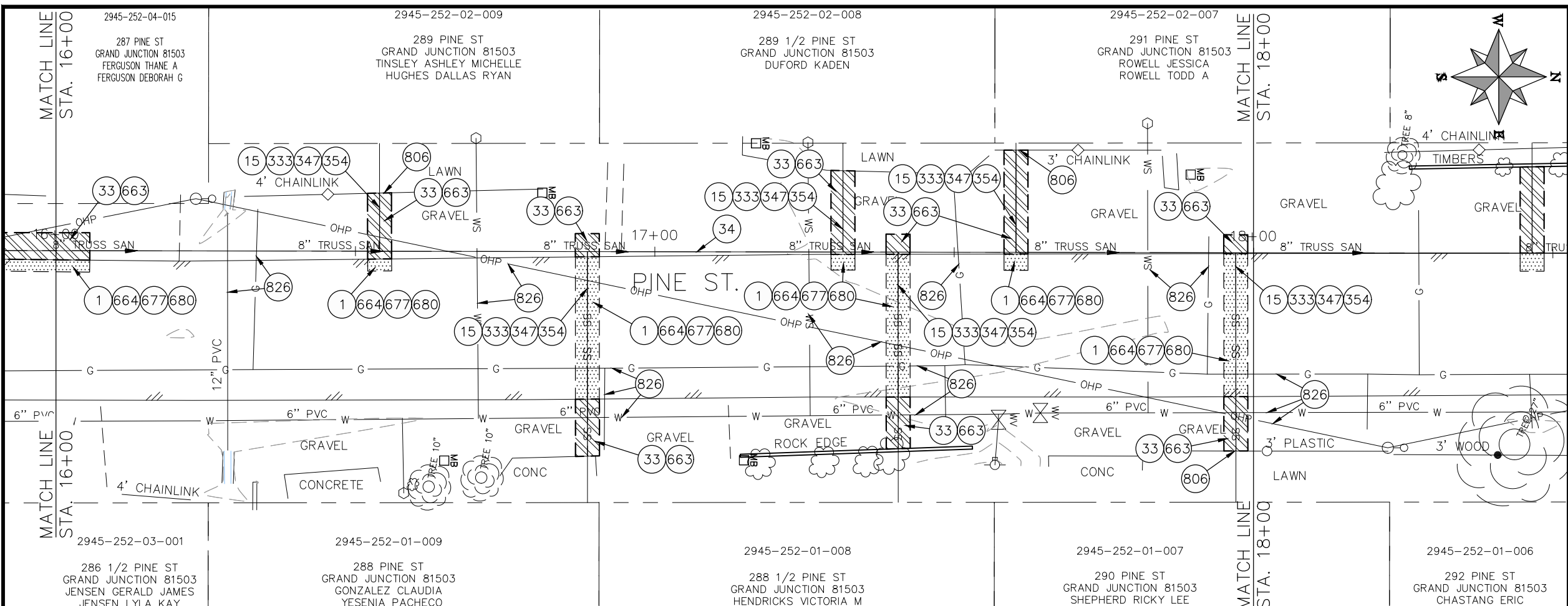
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REVISION Δ XXX	- 202X	DESIGNED BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

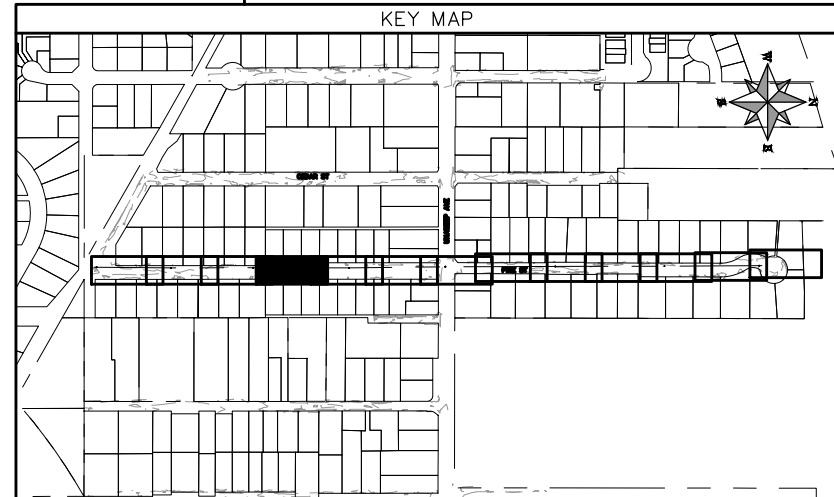
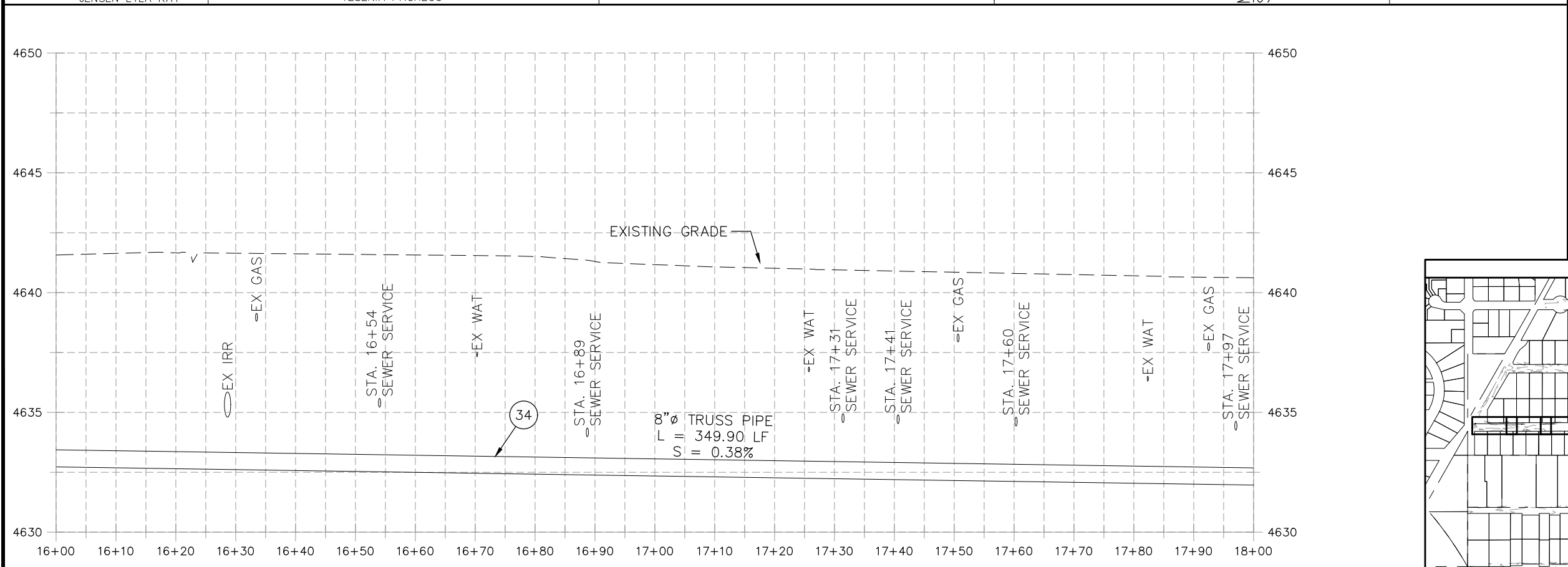


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 14+00 TO STA 16+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 806 PROTECT FENCE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



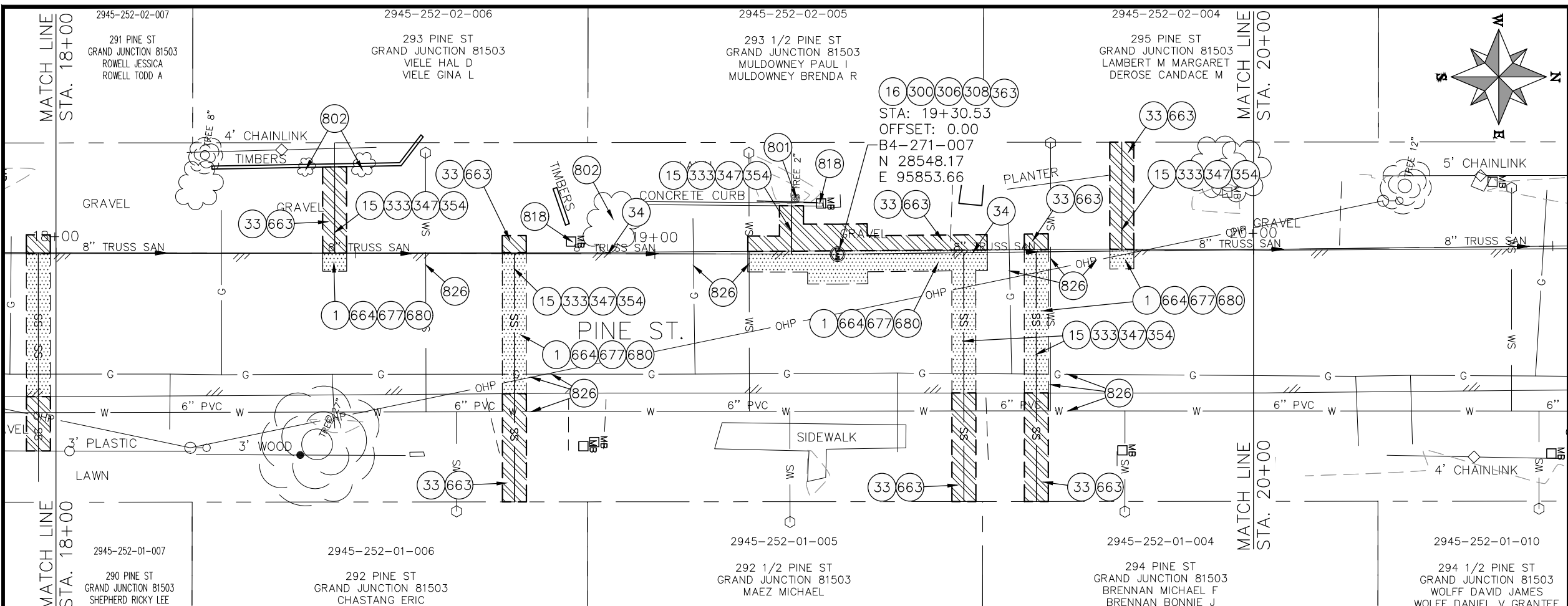
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

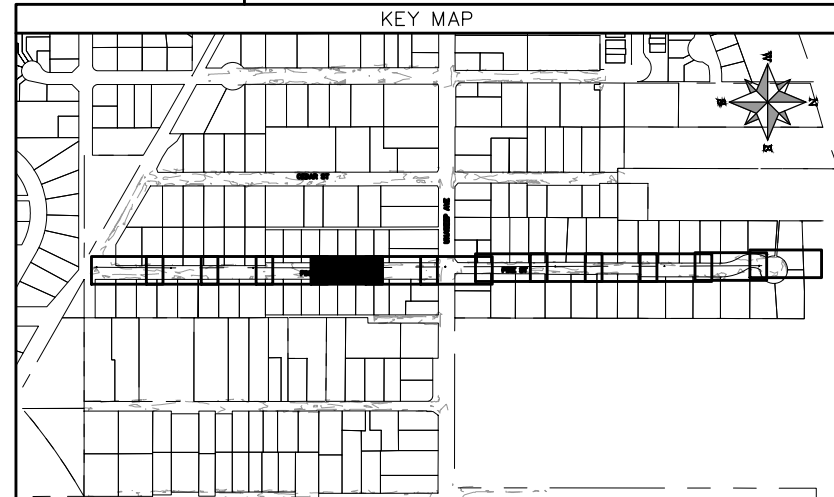
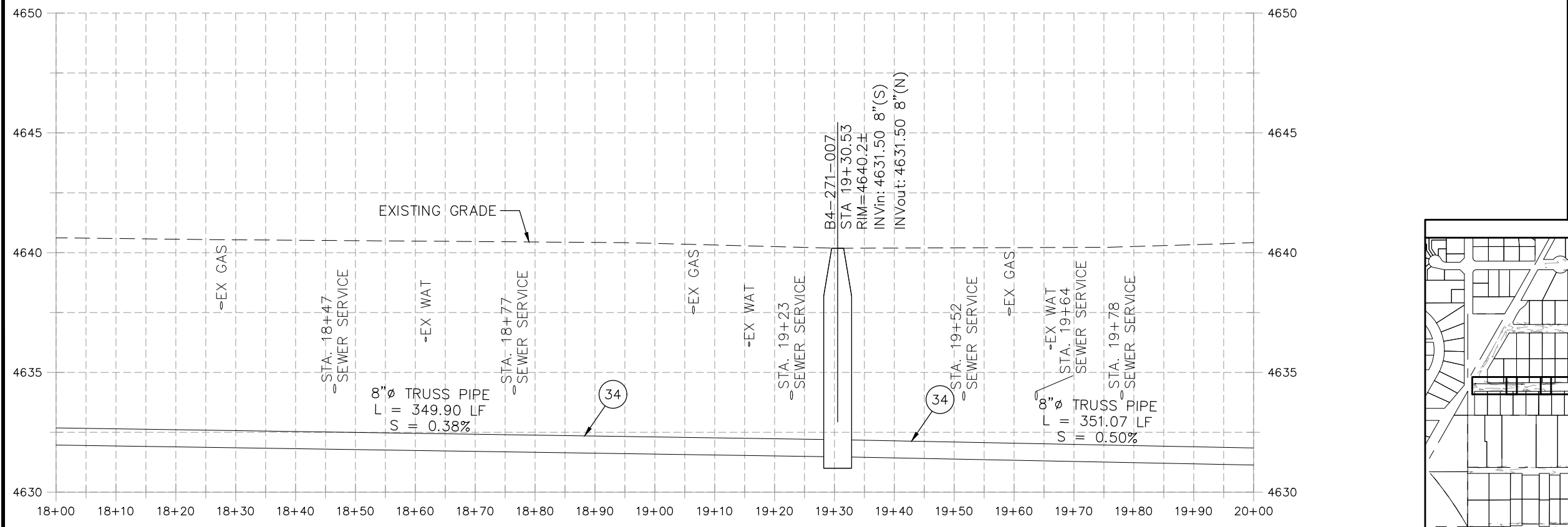


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ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 16+00 TO STA 18+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 802 PROTECT BUSH
 - 818 PROTECT MAILBOX
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



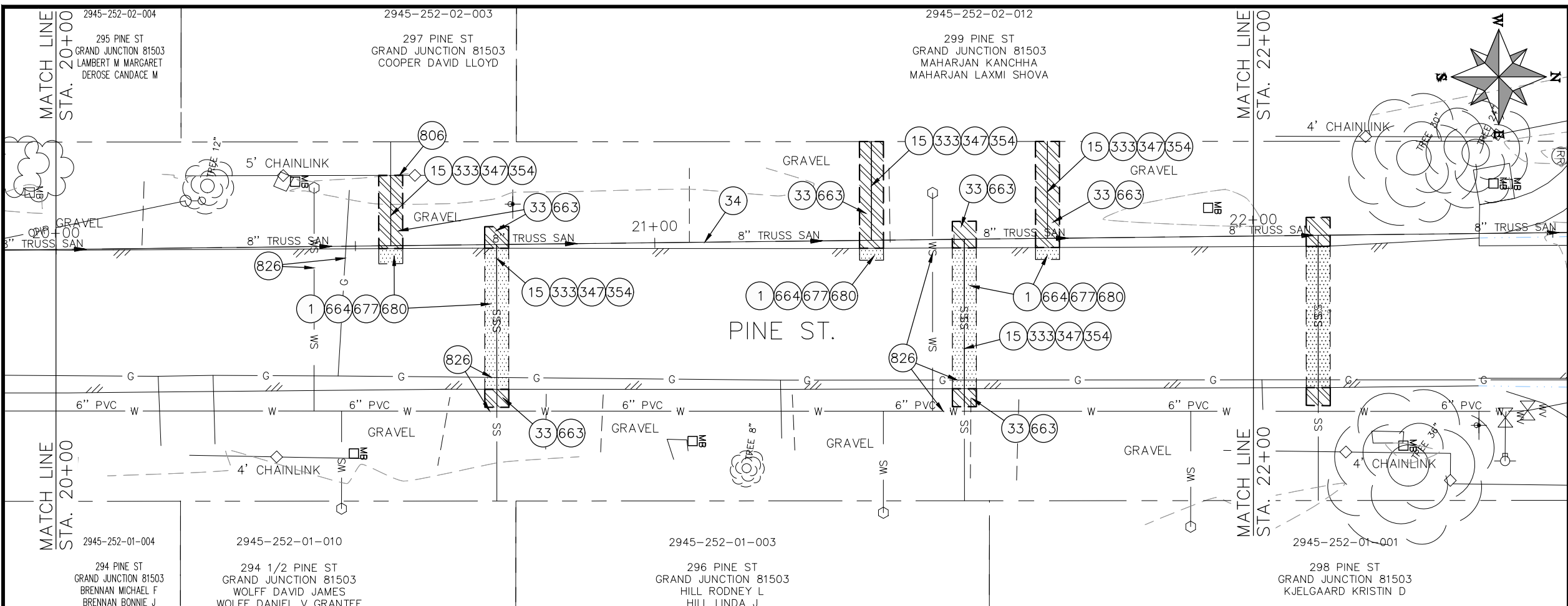
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REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

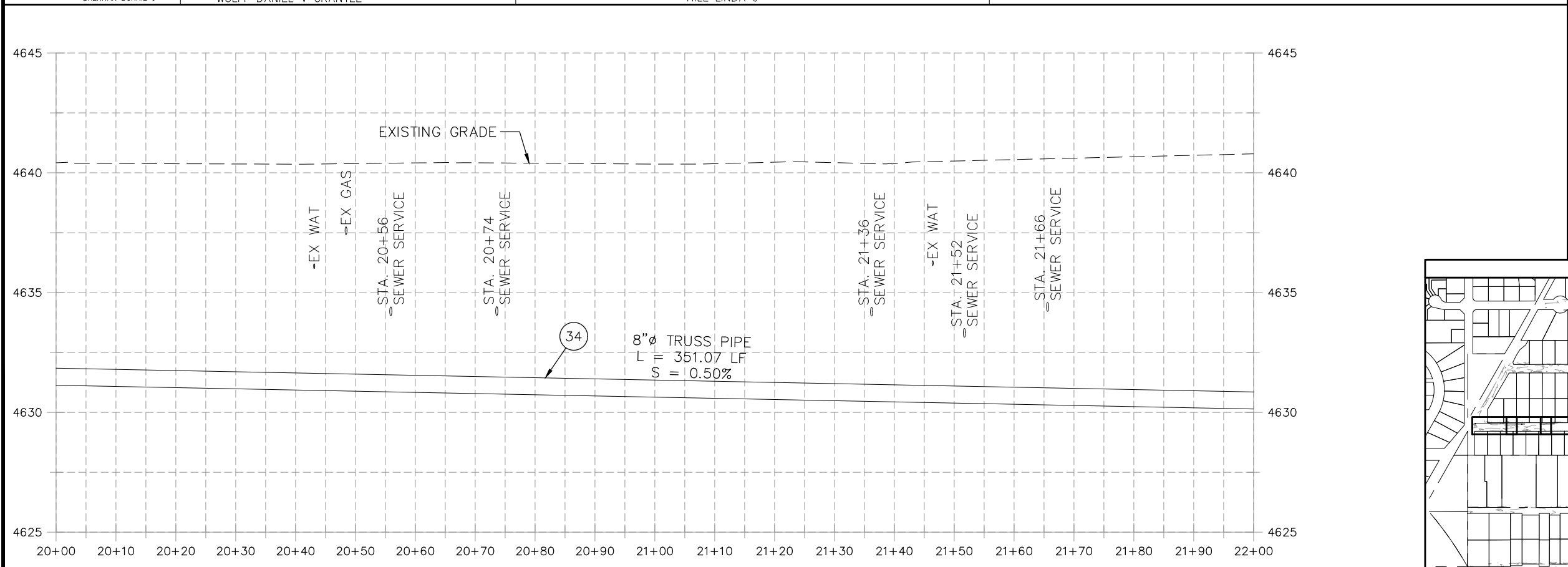


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ENGINEERING DIVISION**

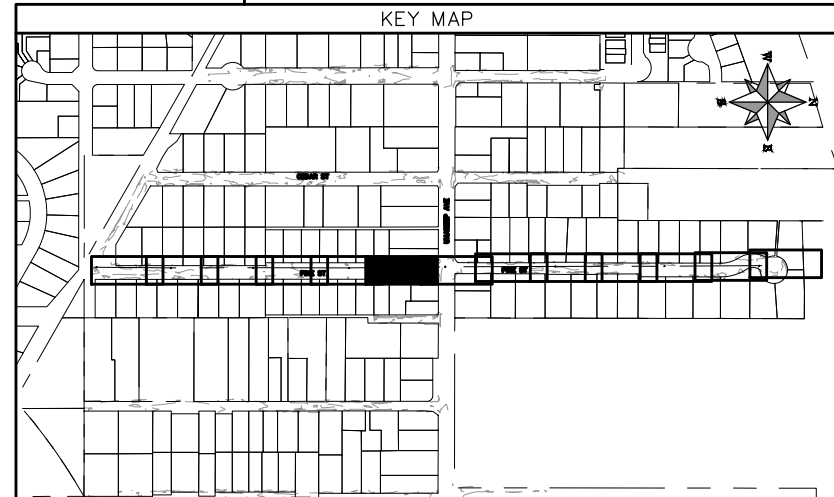
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 18+00 TO STA 20+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 806 PROTECT FENCE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



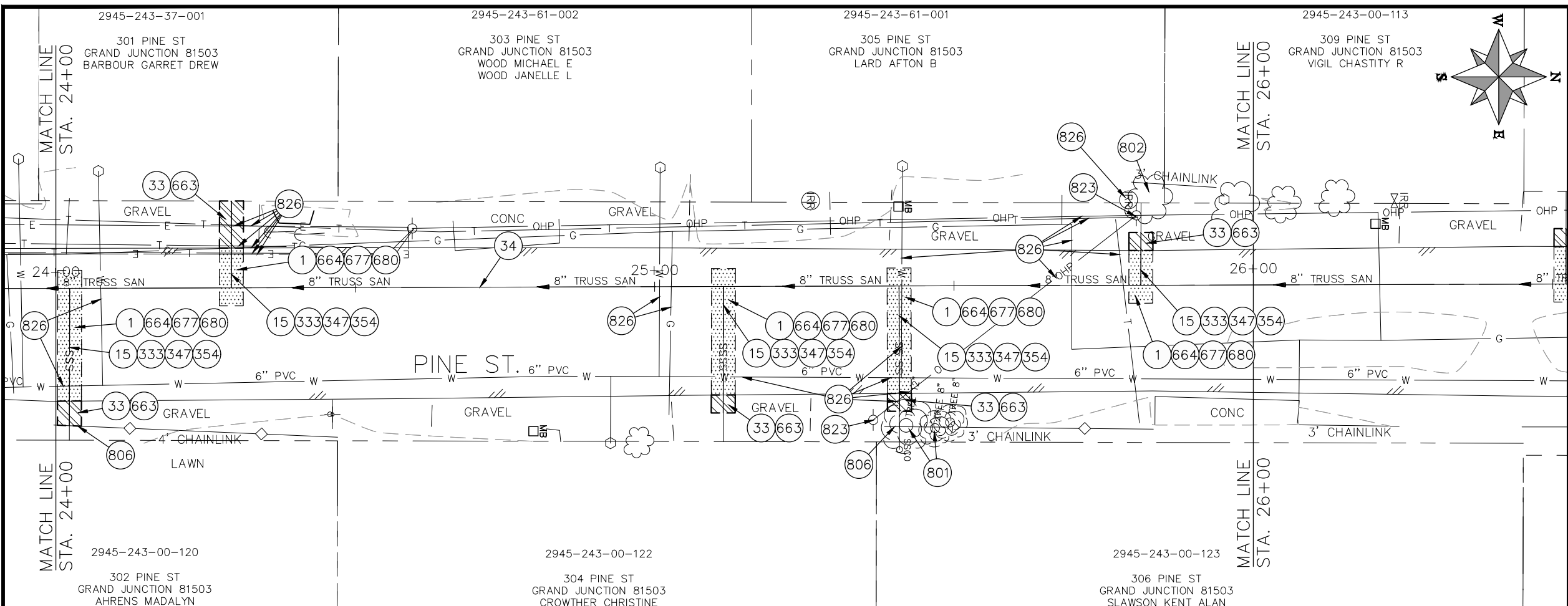
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY TRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

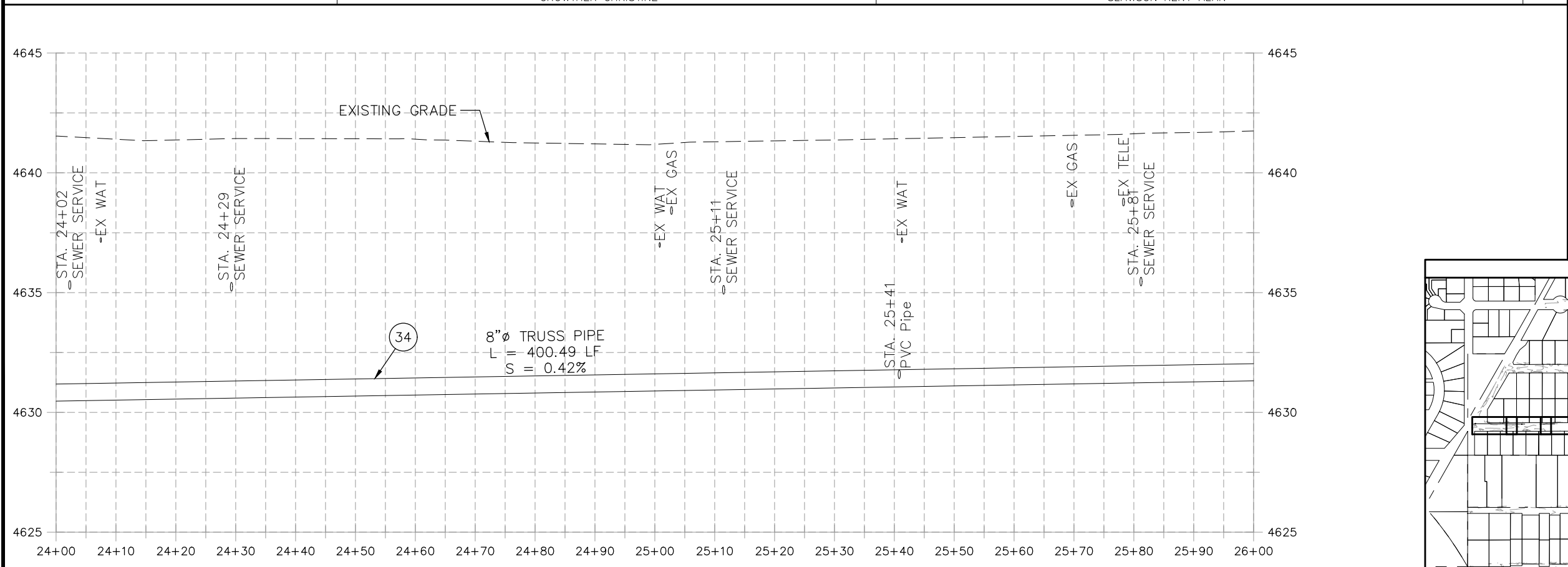


**PUBLIC WORKS
ENGINEERING DIVISION**

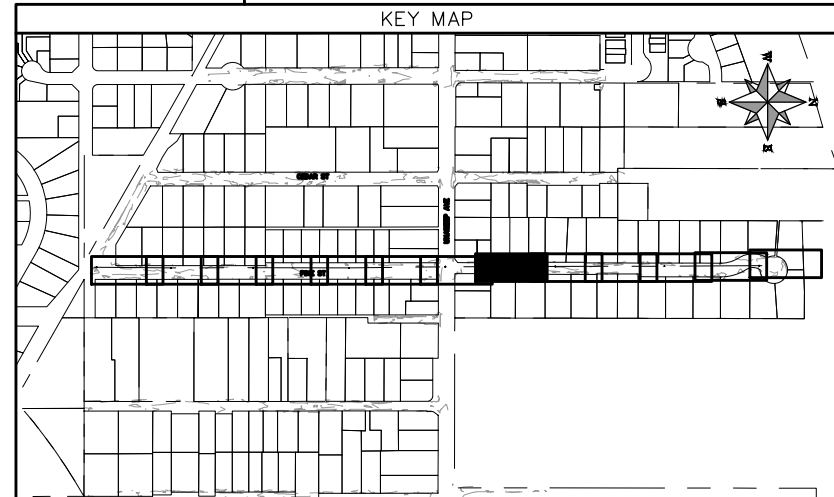
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 20+00 TO STA 22+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 802 PROTECT BUSH
 - 806 PROTECT FENCE
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE
REVISION Δ XXX		202X
REVISION Δ XXX		202X
REVISION Δ XXX		202X
REVISION Δ XXX		202X

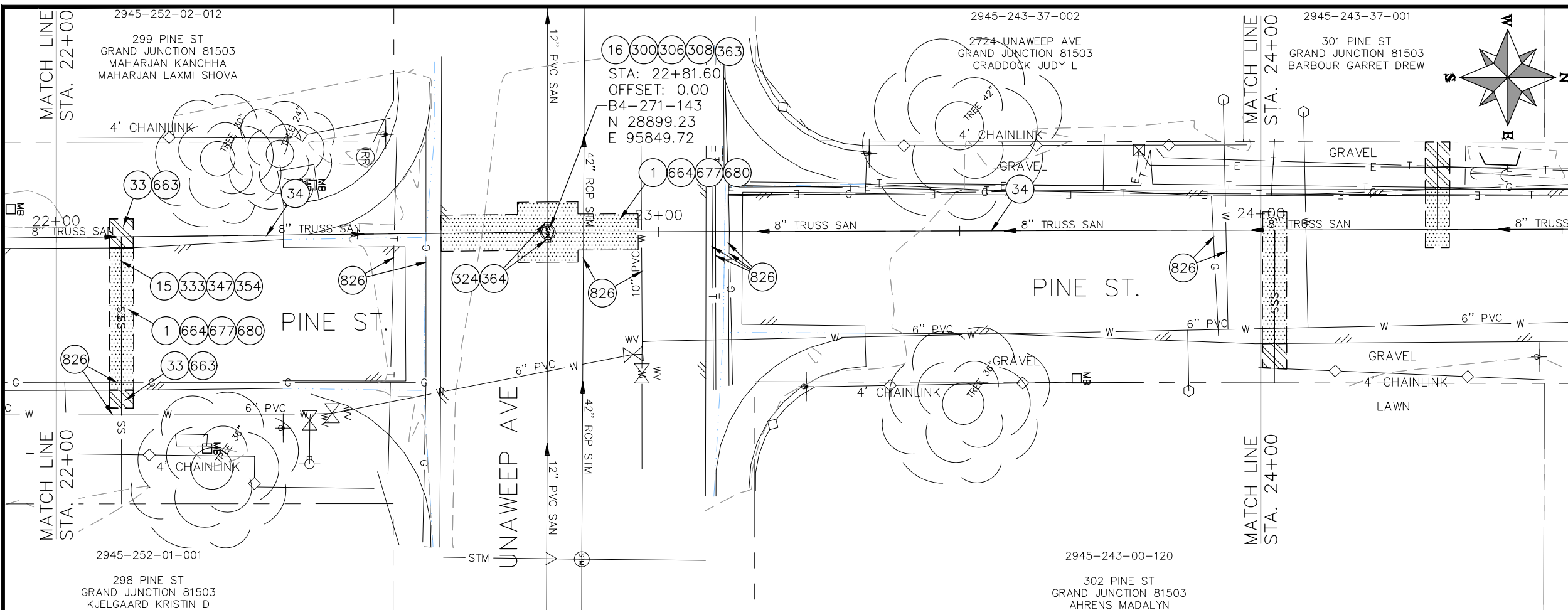
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DRAWN BY DJM DATE 09/2022
DESIGNED BY DJM DATE 09/2022
CHECKED BY IRT DATE 09/2022
APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

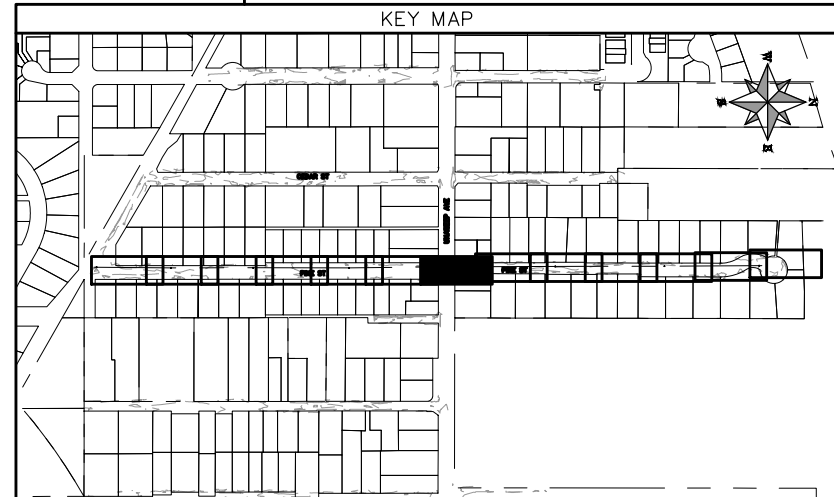
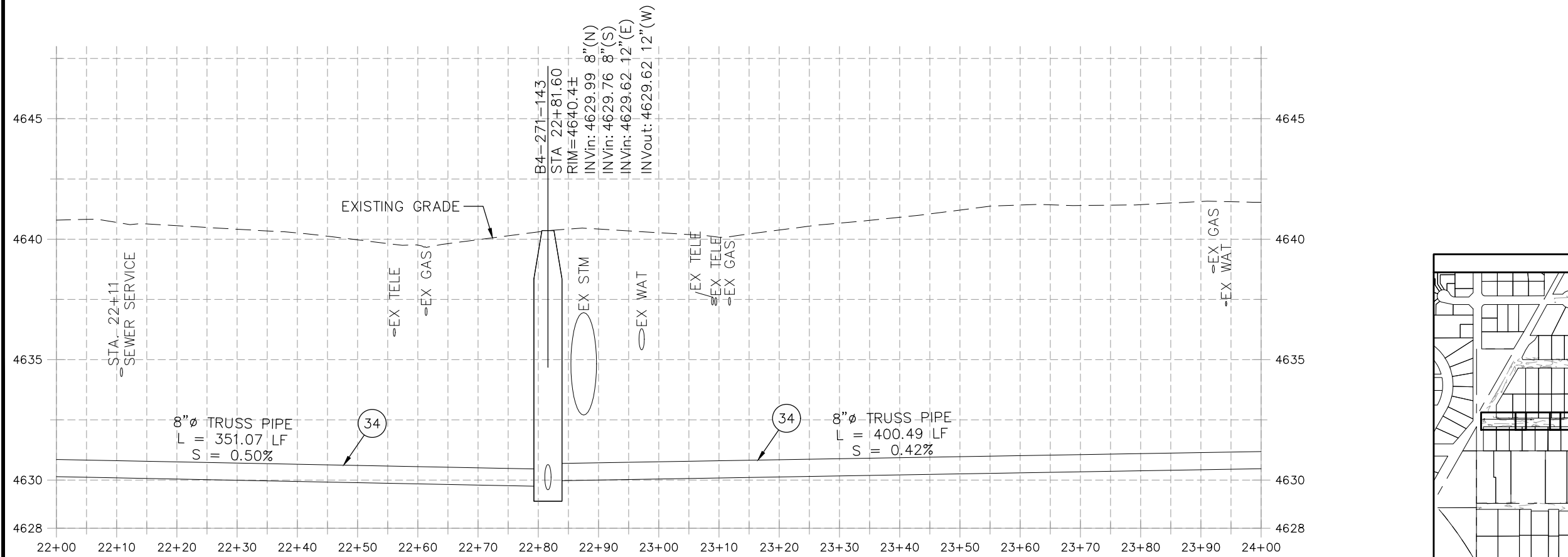


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 24+00 TO STA 26+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



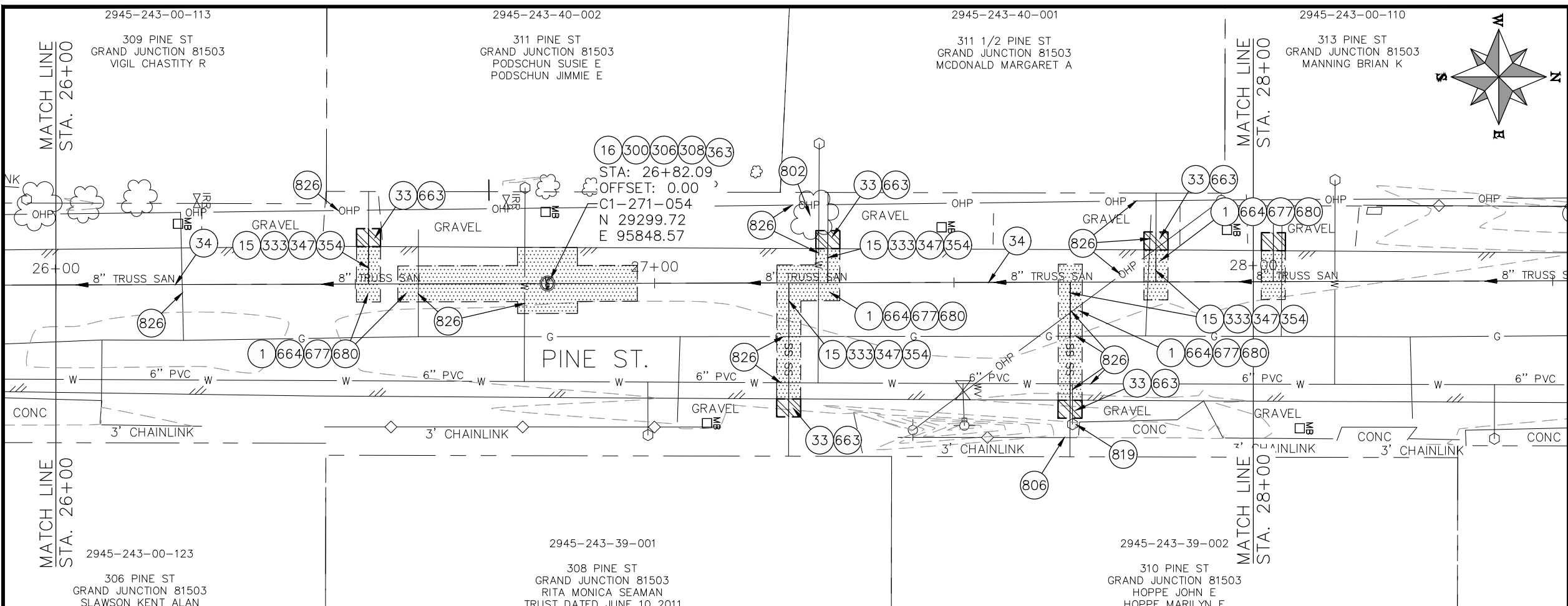
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REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

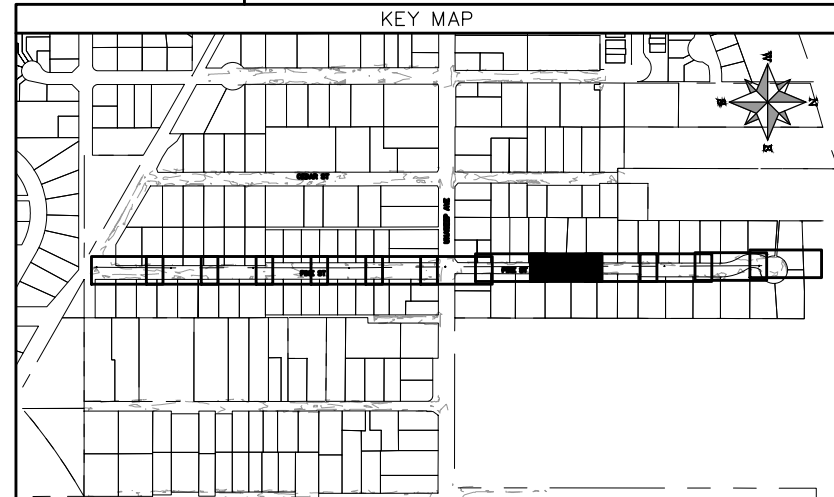
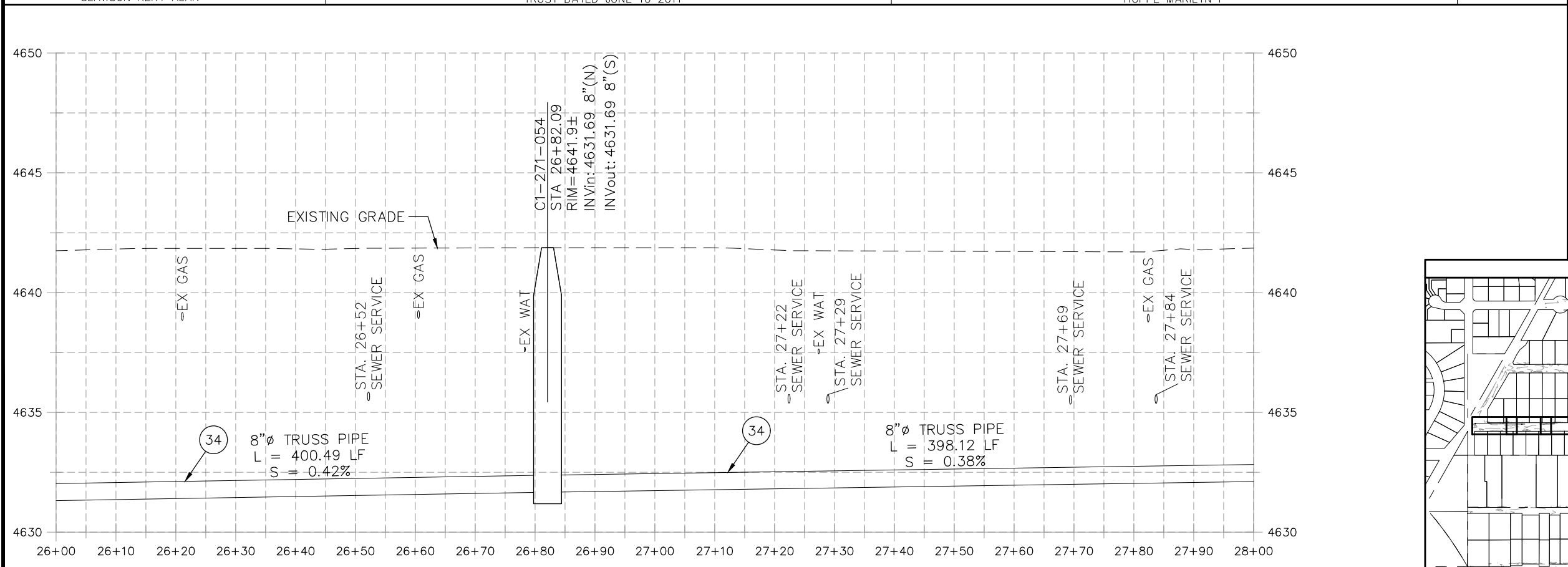


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 22+00 TO STA 24+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 802 PROTECT BUSH
 - 806 PROTECT FENCE
 - 819 PROTECT WATER METER
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



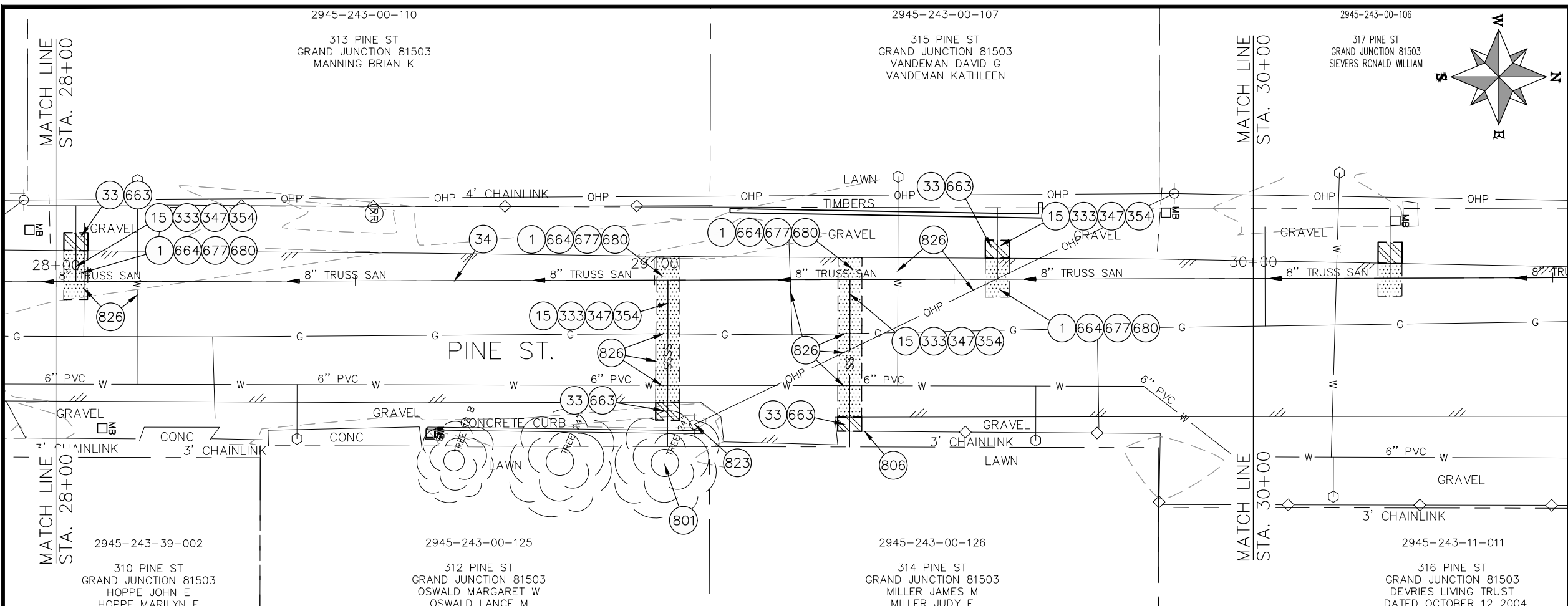
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REVISION Δ XXX		202X	CHECKED BY TRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

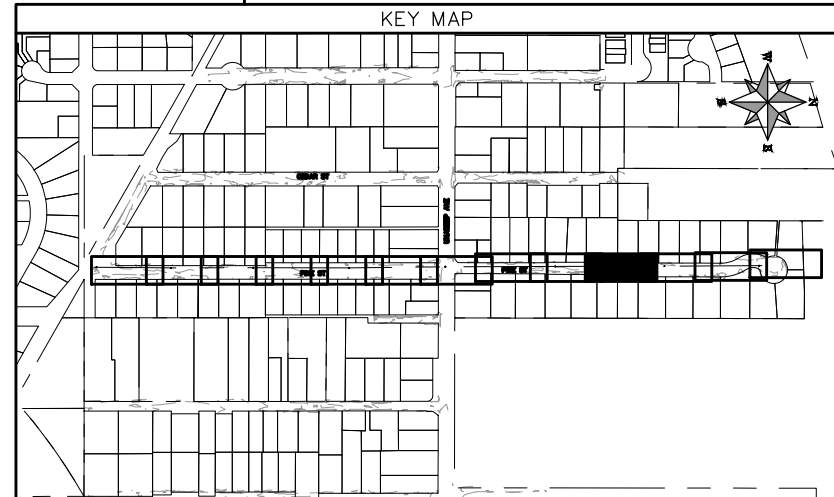
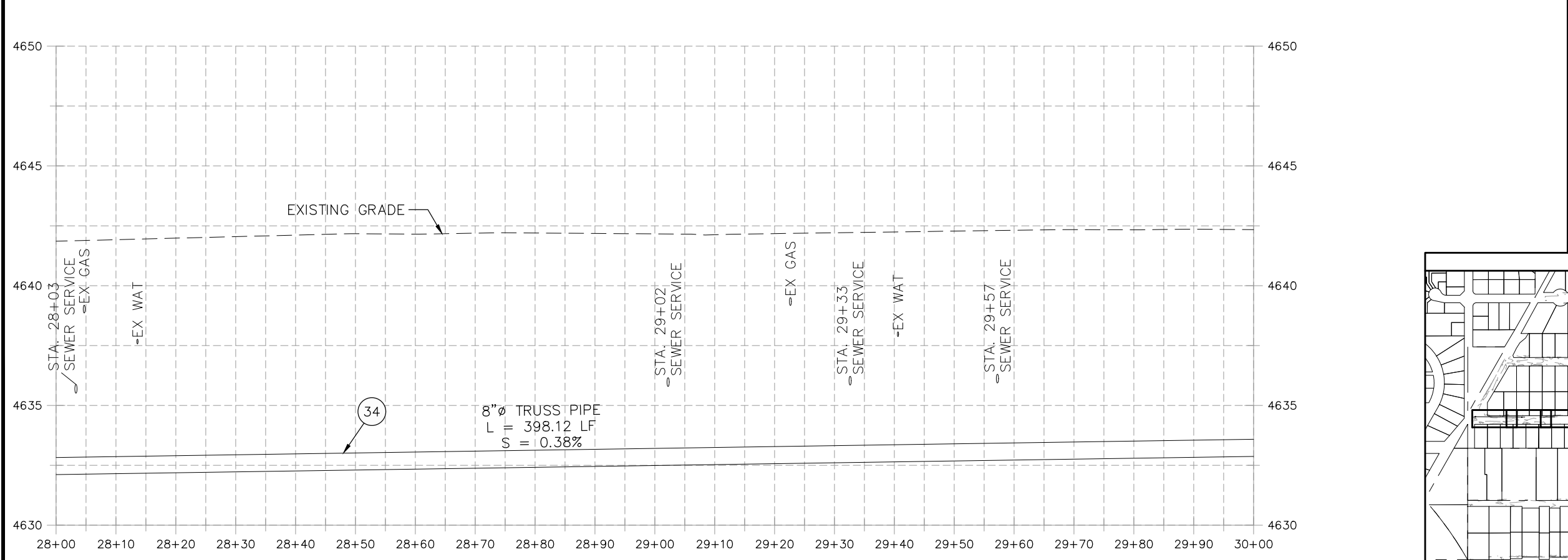
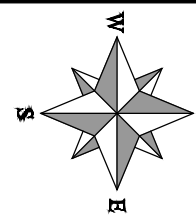


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 26+00 TO STA 28+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 806 PROTECT FENCE
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



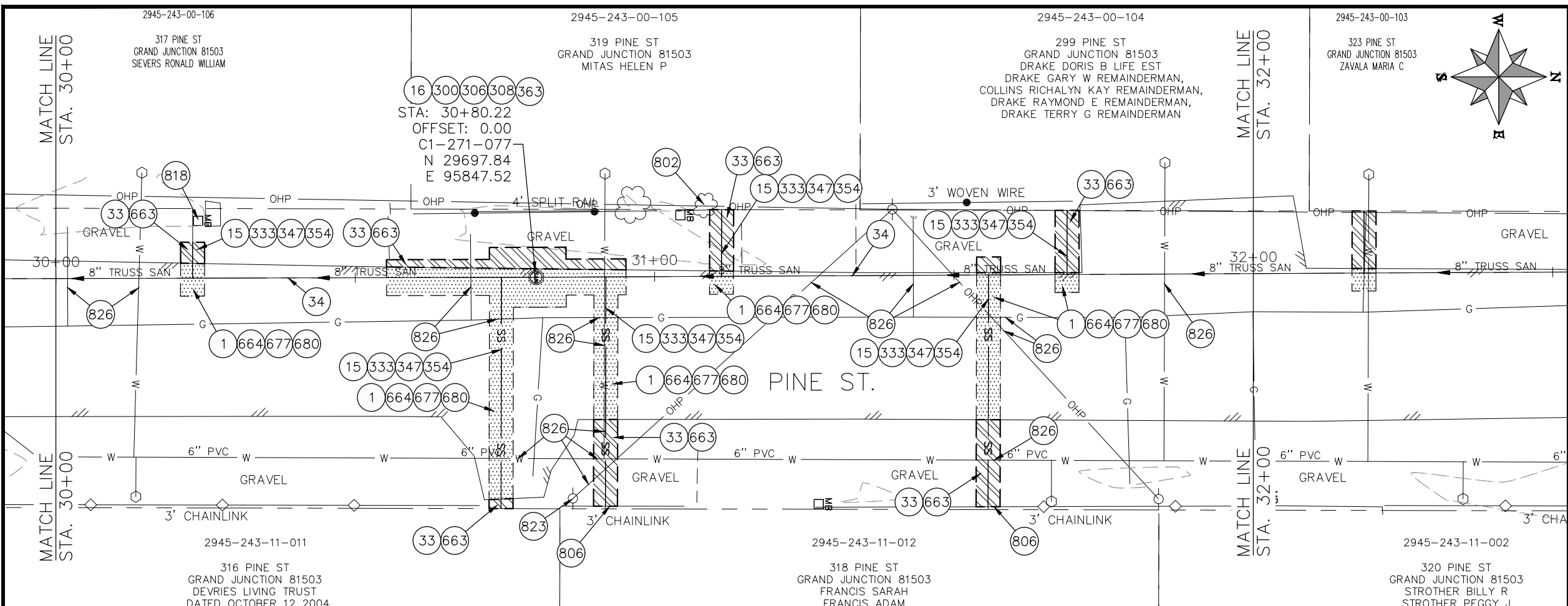
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REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

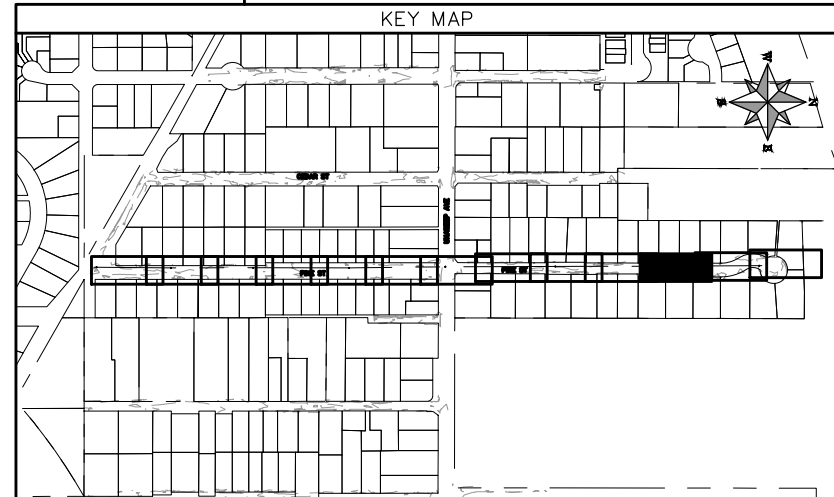
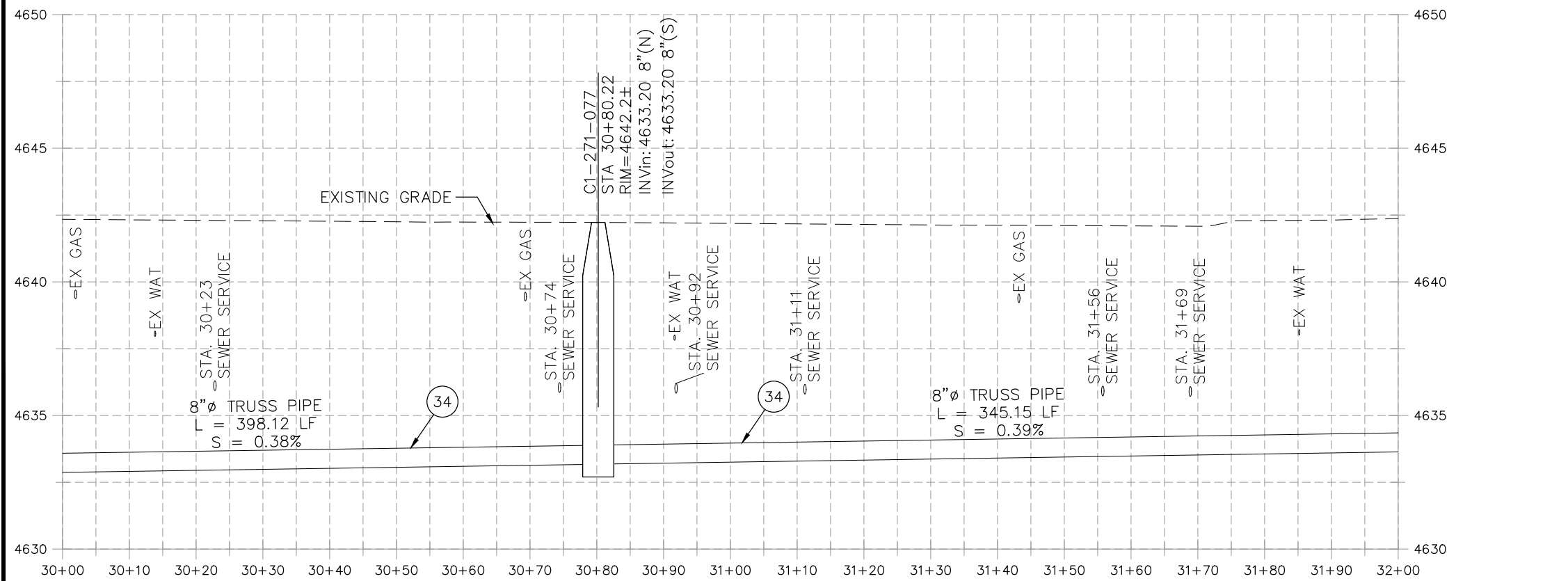
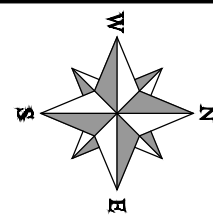


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ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 28+00 TO STA 30+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 802 PROTECT BUSH
 - 806 PROTECT FENCE
 - 818 PROTECT MAILBOX.
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



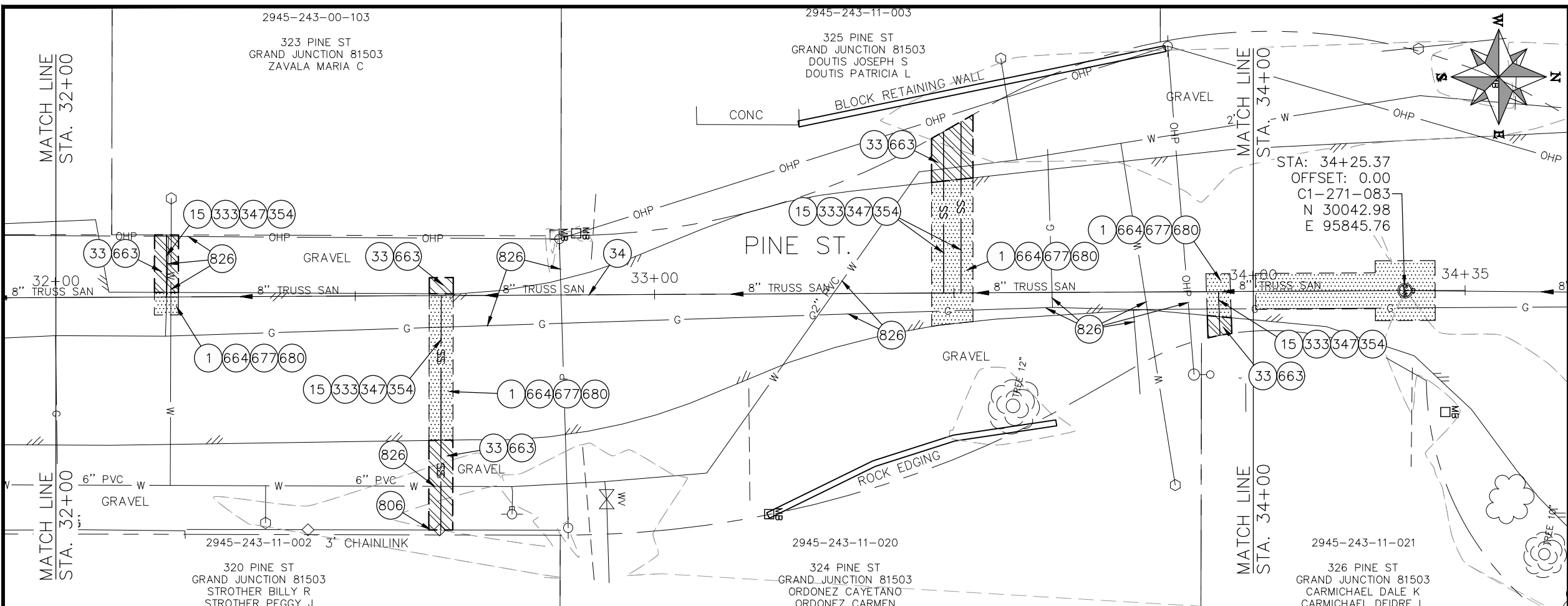
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REVISION Δ XXX		202X	CHECKED BY TRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'

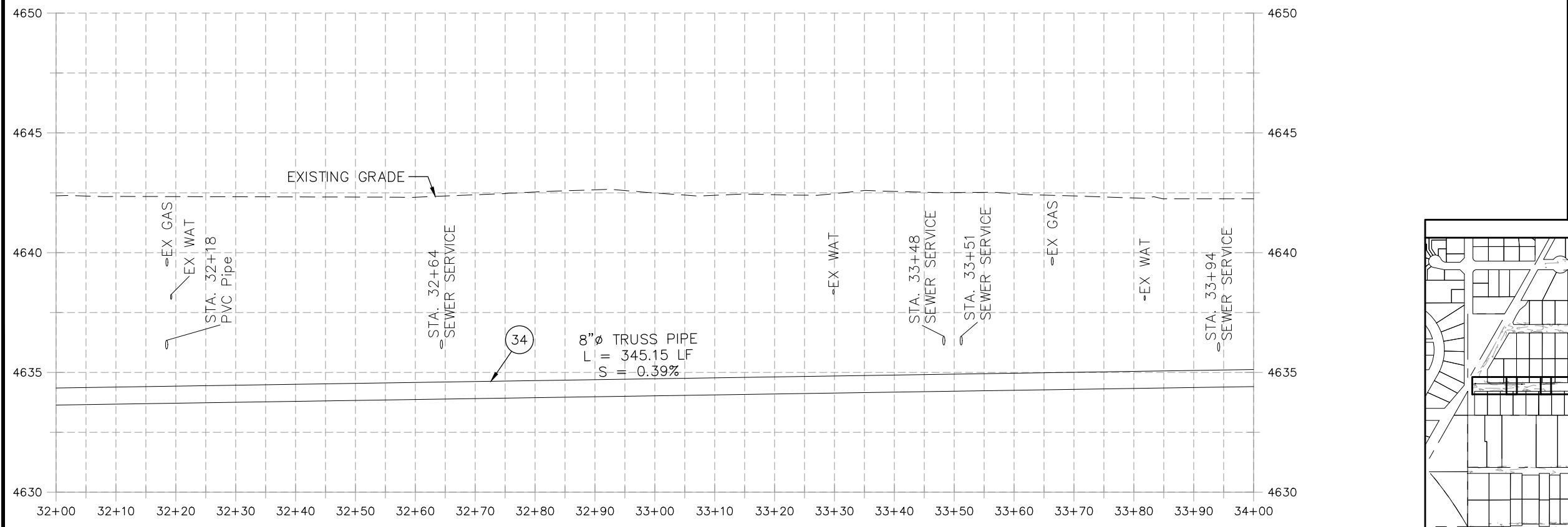


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ENGINEERING DIVISION**

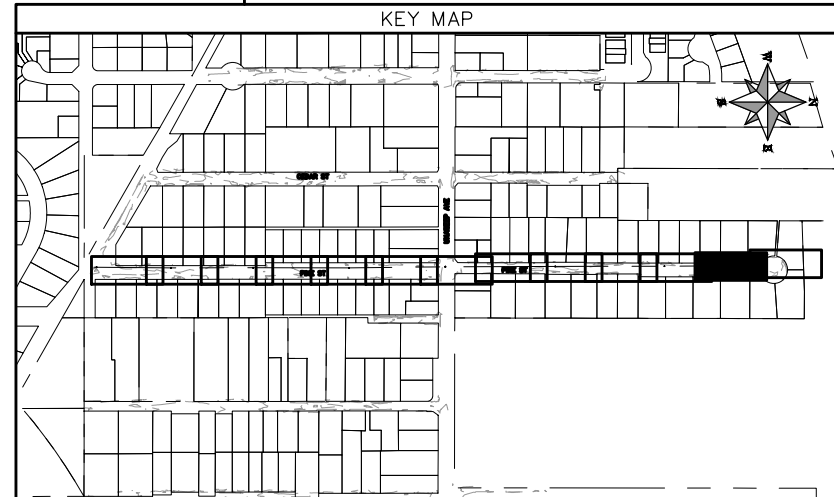
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 30+00 TO STA 32+00**



- CONSTRUCTION NOTES**
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - ③③ 202 - REMOVE EXISTING SURFACE MATERIAL.
 - ③④ SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - ③③③ 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - ③④⑦ 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - ③⑤④ 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - ⑥⑥③ 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - ⑥⑥④ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - ⑥⑦⑦ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - ⑥⑧① 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - ⑧①⑥ PROTECT FENCE
 - ⑧②⑥ PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



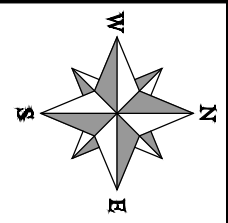
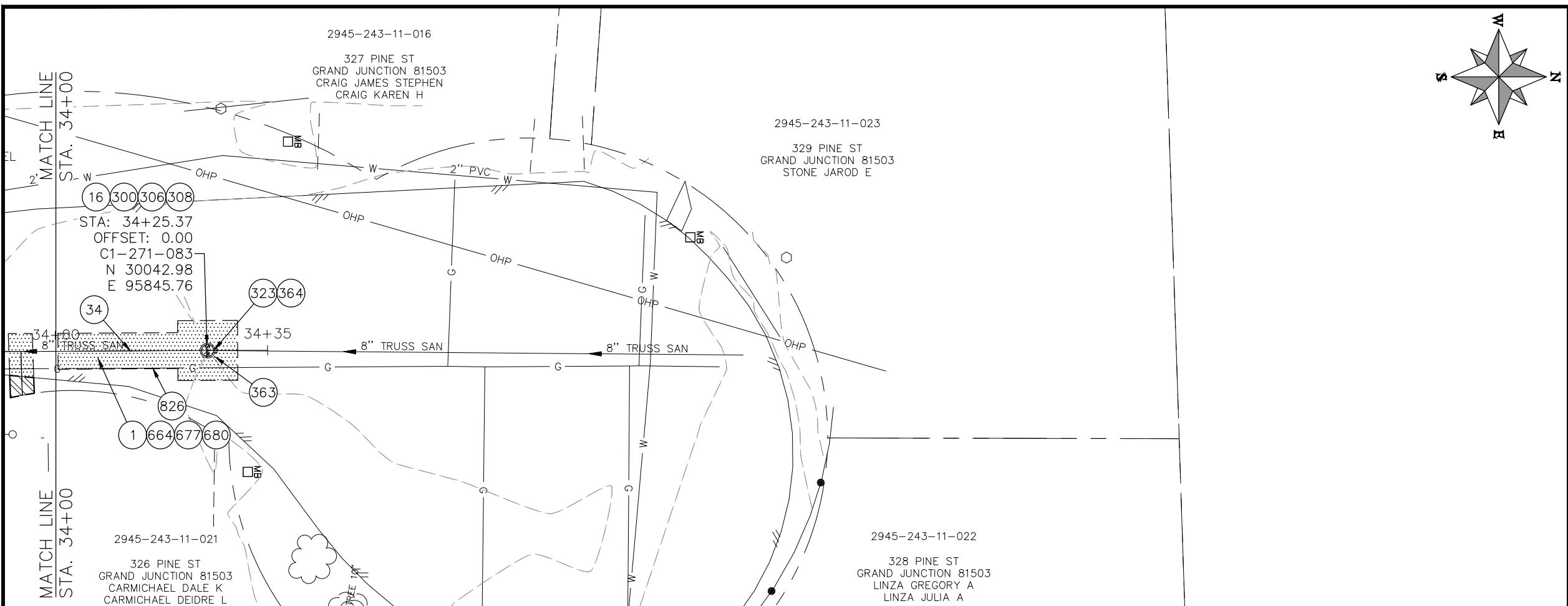
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REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



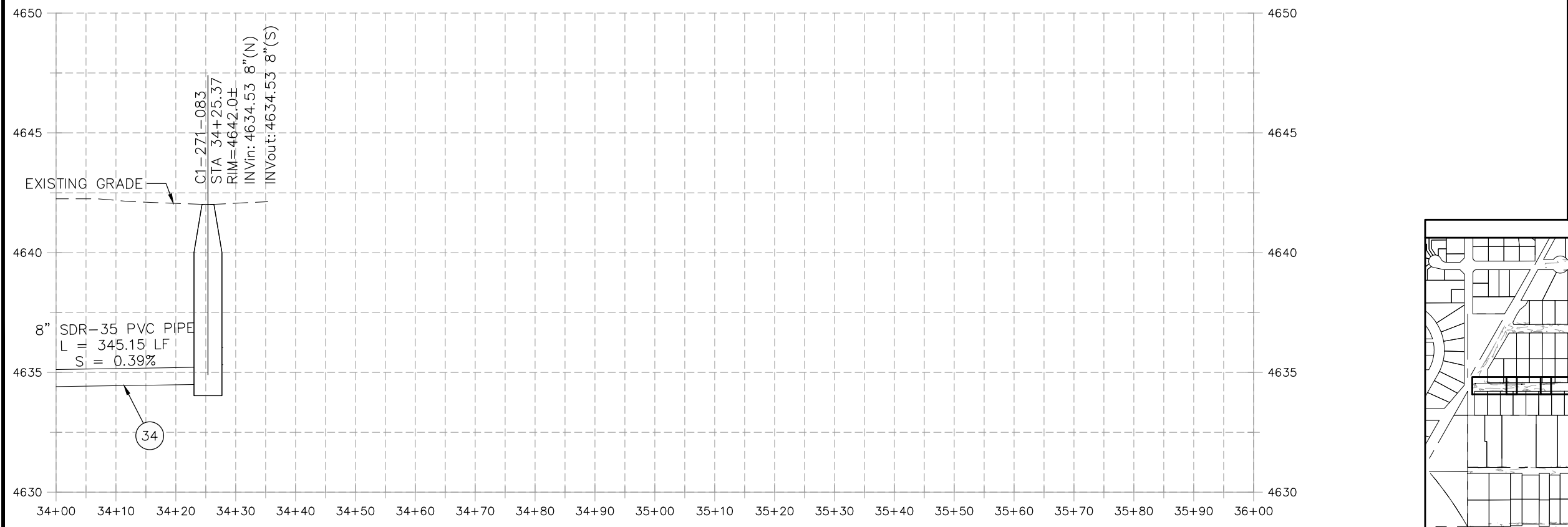
**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 32+00 TO STA 34+00**

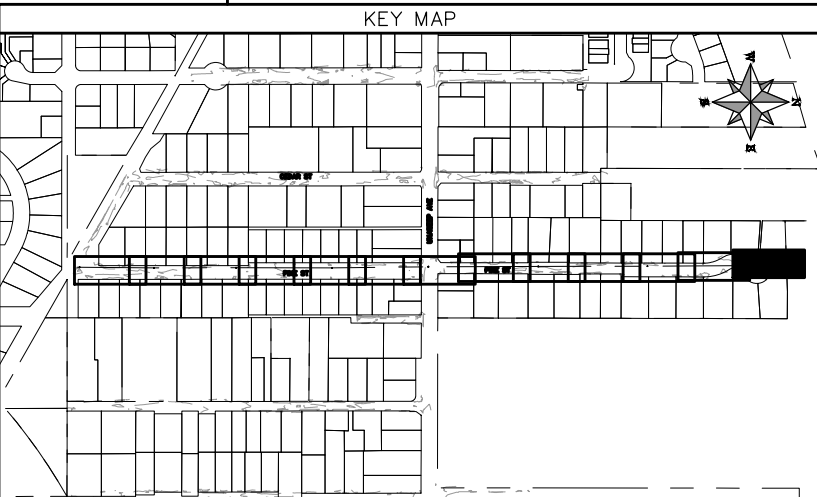


CONSTRUCTION NOTES

- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- ①⑥ 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- ③④ SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
- ③⑦ 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- ③⑧ 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
- ③⑧ 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
- ③⑨ 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- ③⑩ BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
- ③⑩ CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- ④④ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- ④⑦ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- ④⑧ 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- ④⑩ PROTECT EXISTING UTILITY LINE IN PLACE.



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



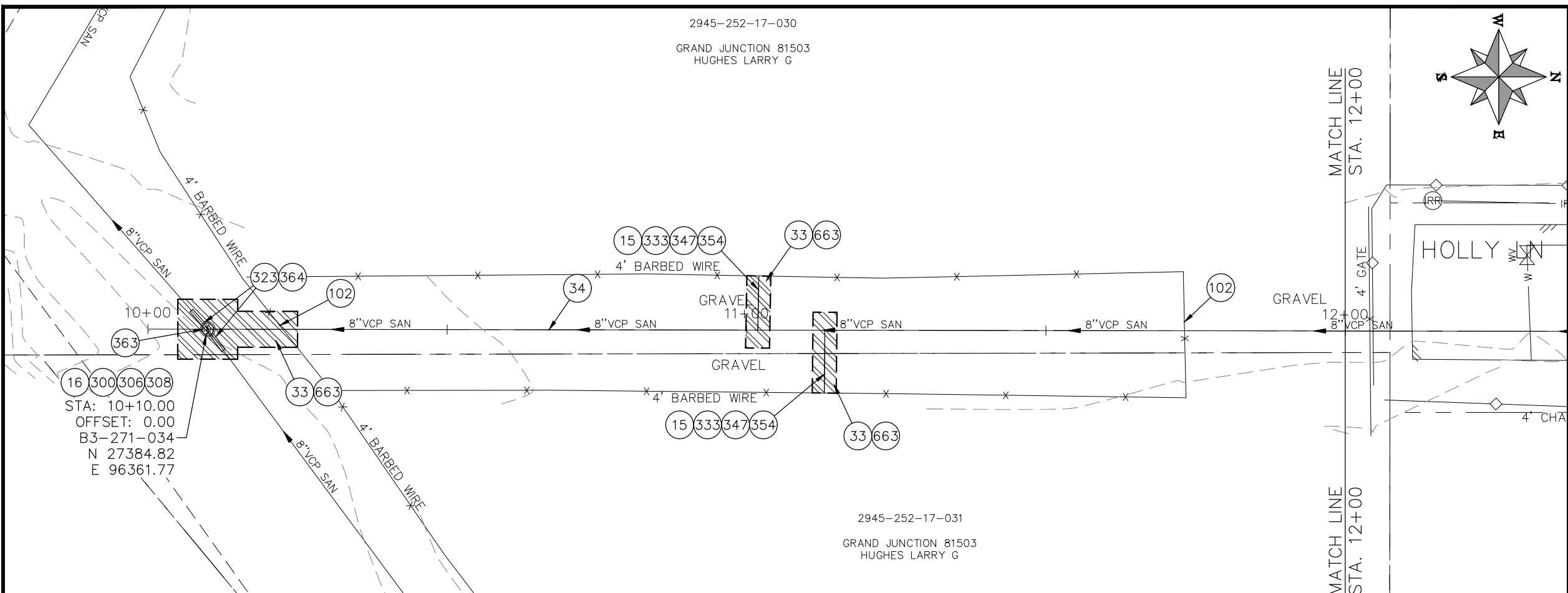
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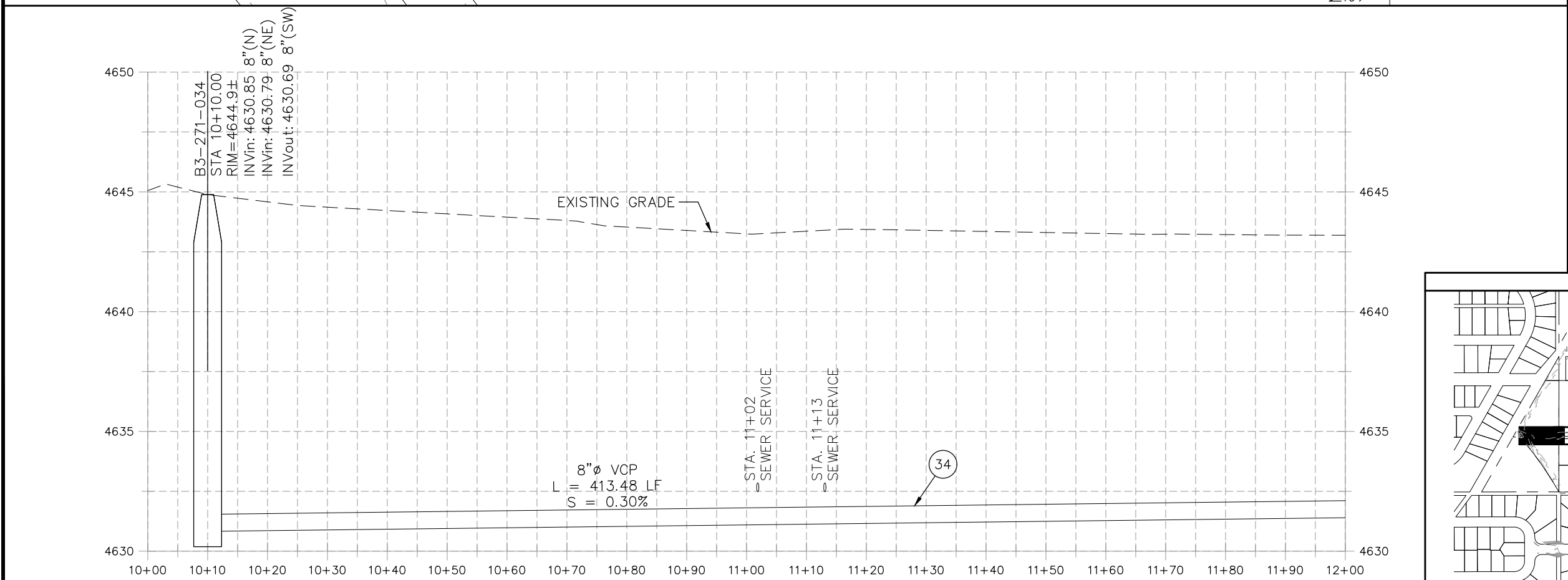


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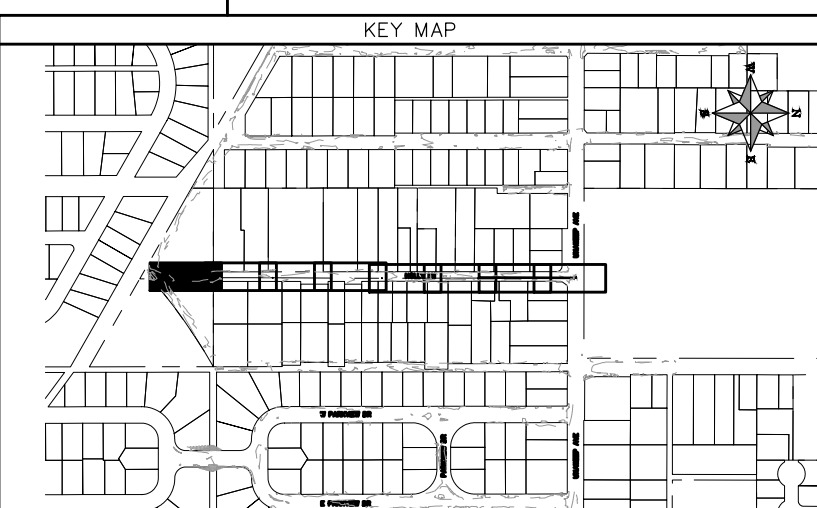
**2022 SEWER LINE REPLACEMENT - PARSES 2-3
PINE ST PLAN AND PROFILE
STA 34+00 TO STA 36+00**



- ### CONSTRUCTION NOTES
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



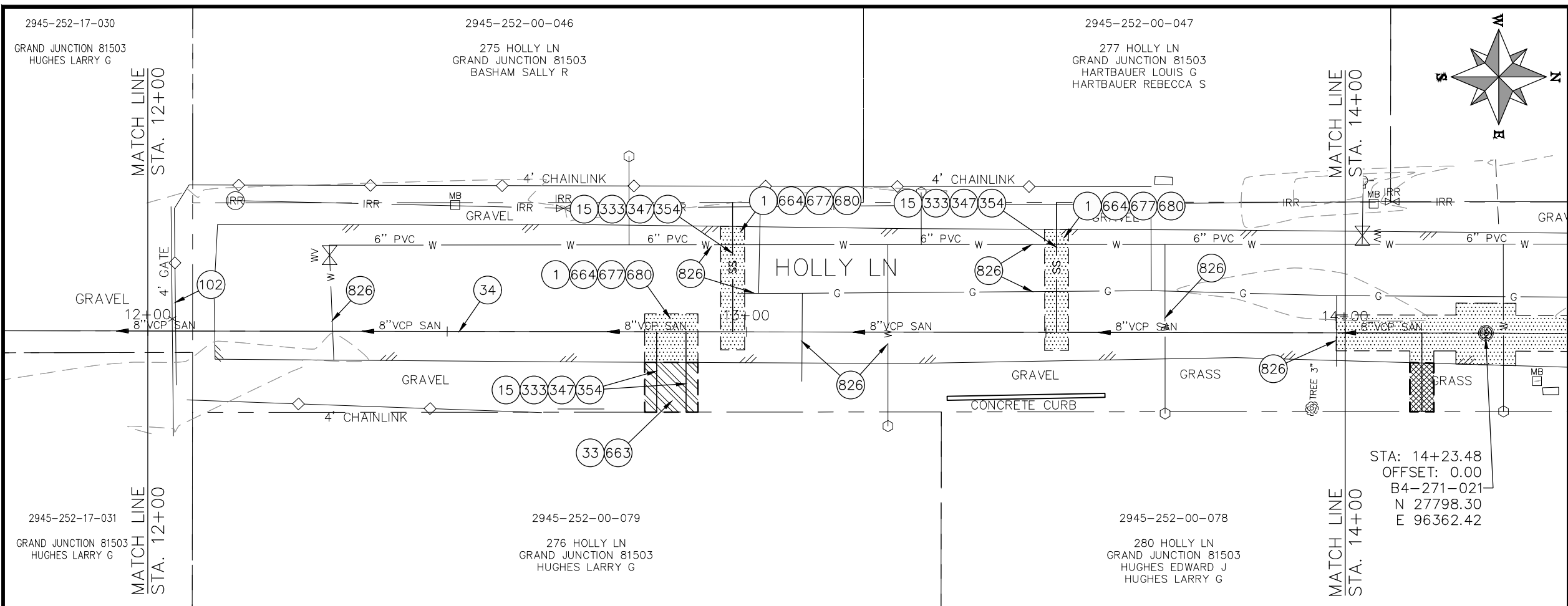
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REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY TRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

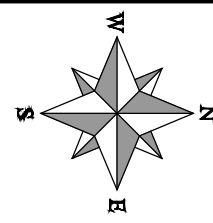


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ENGINEERING DIVISION

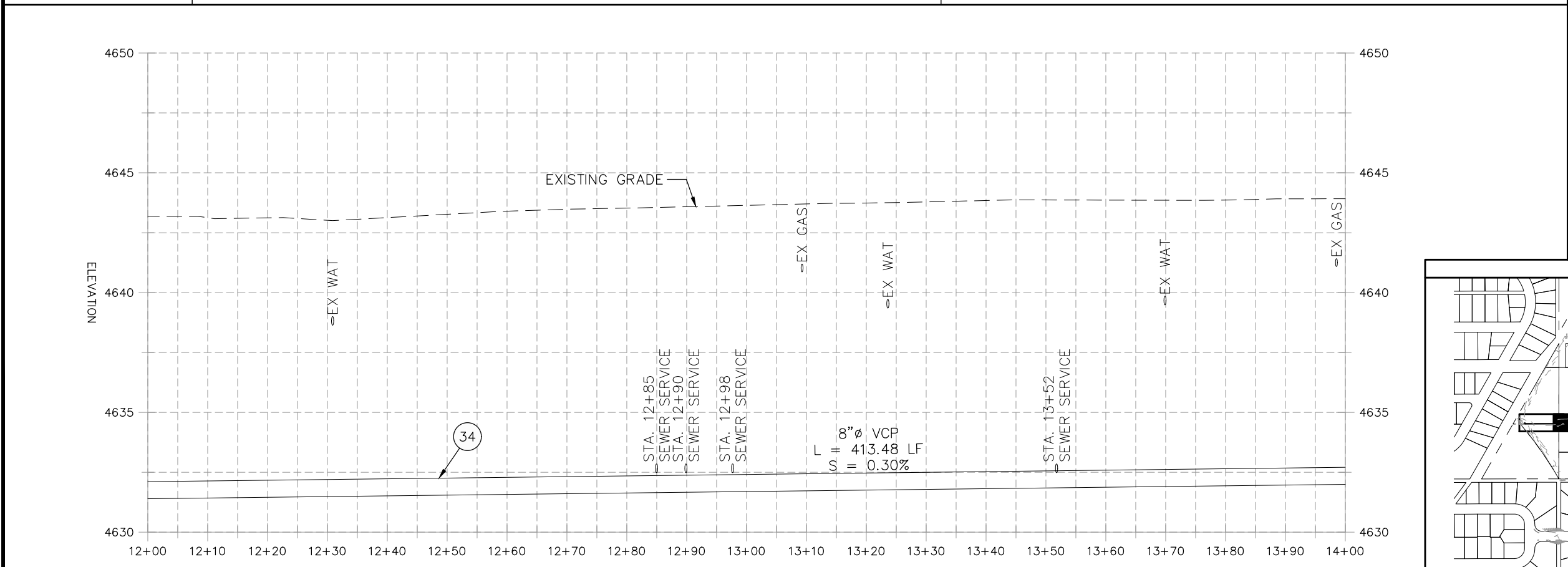
2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 10+00 TO STA 12+00



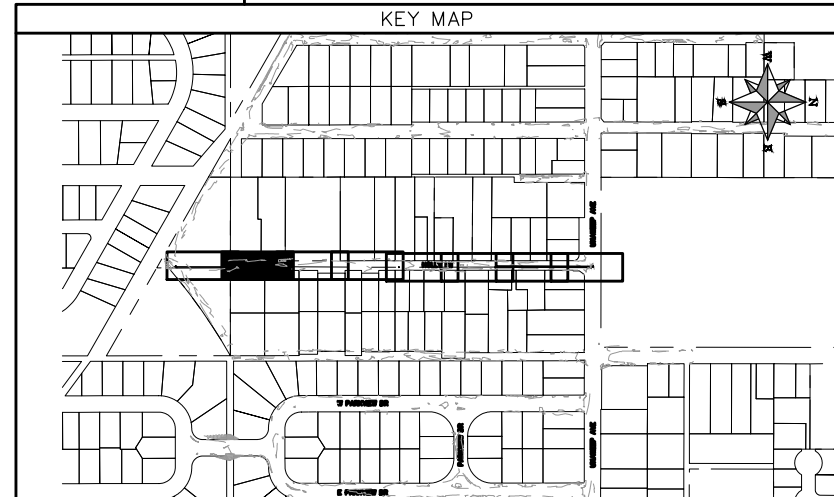
- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



STA: 14+23.48
 OFFSET: 0.00
 B4-271-021
 N 27798.30
 E 96362.42



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



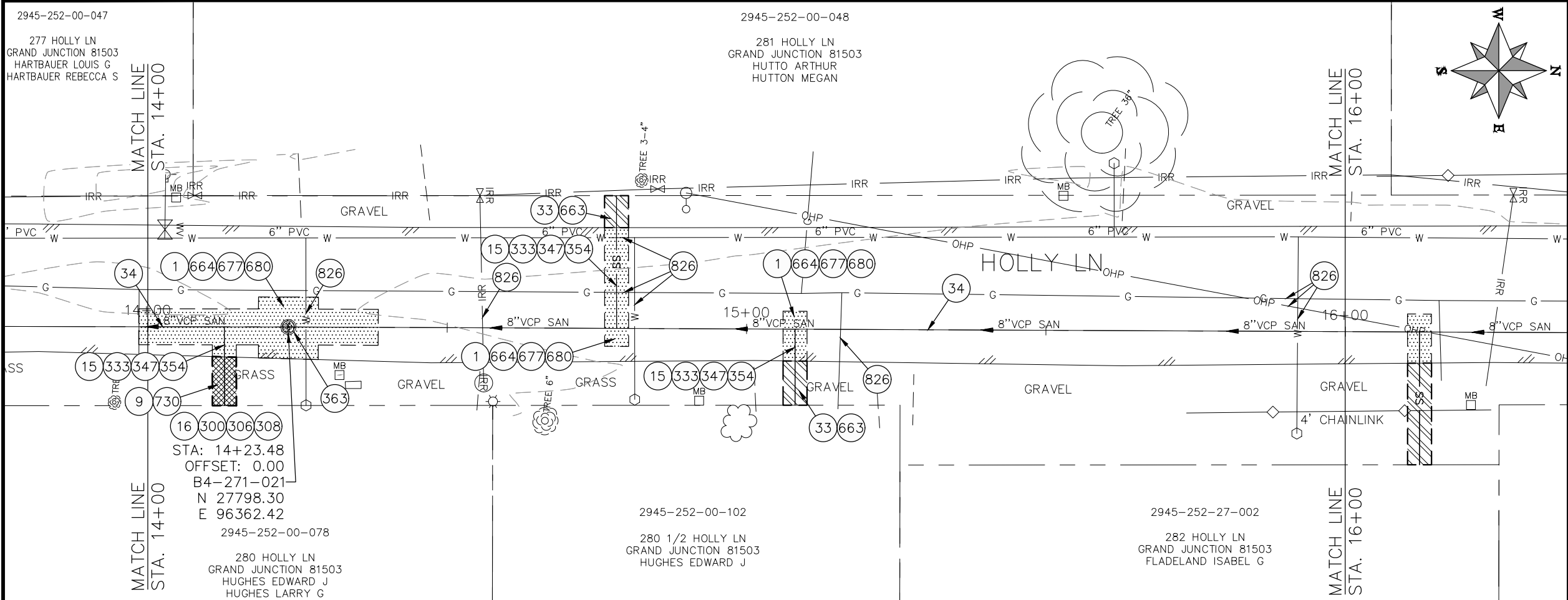
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REVISION Δ XXX	202X	09/2022	DRAWN BY DJM
REVISION Δ XXX	202X	09/2022	DESIGNED BY DJM
REVISION Δ XXX	202X	09/2022	CHECKED BY IRT
REVISION Δ XXX	202X	09/2022	APPROVED BY KH

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

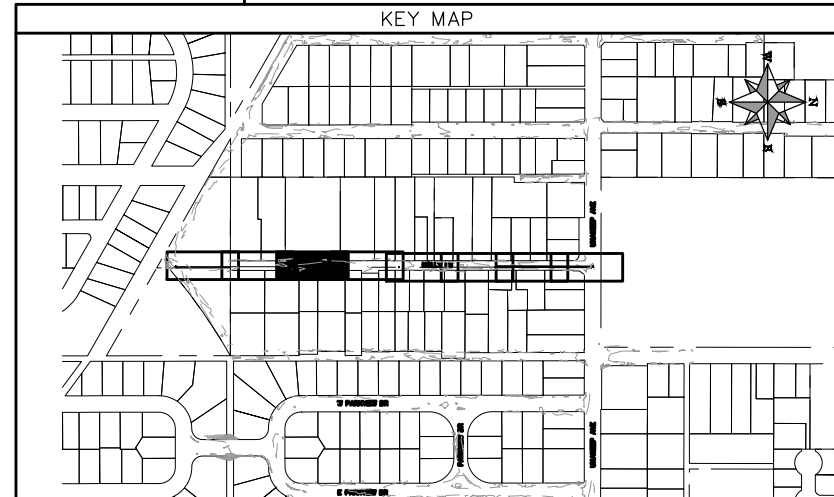
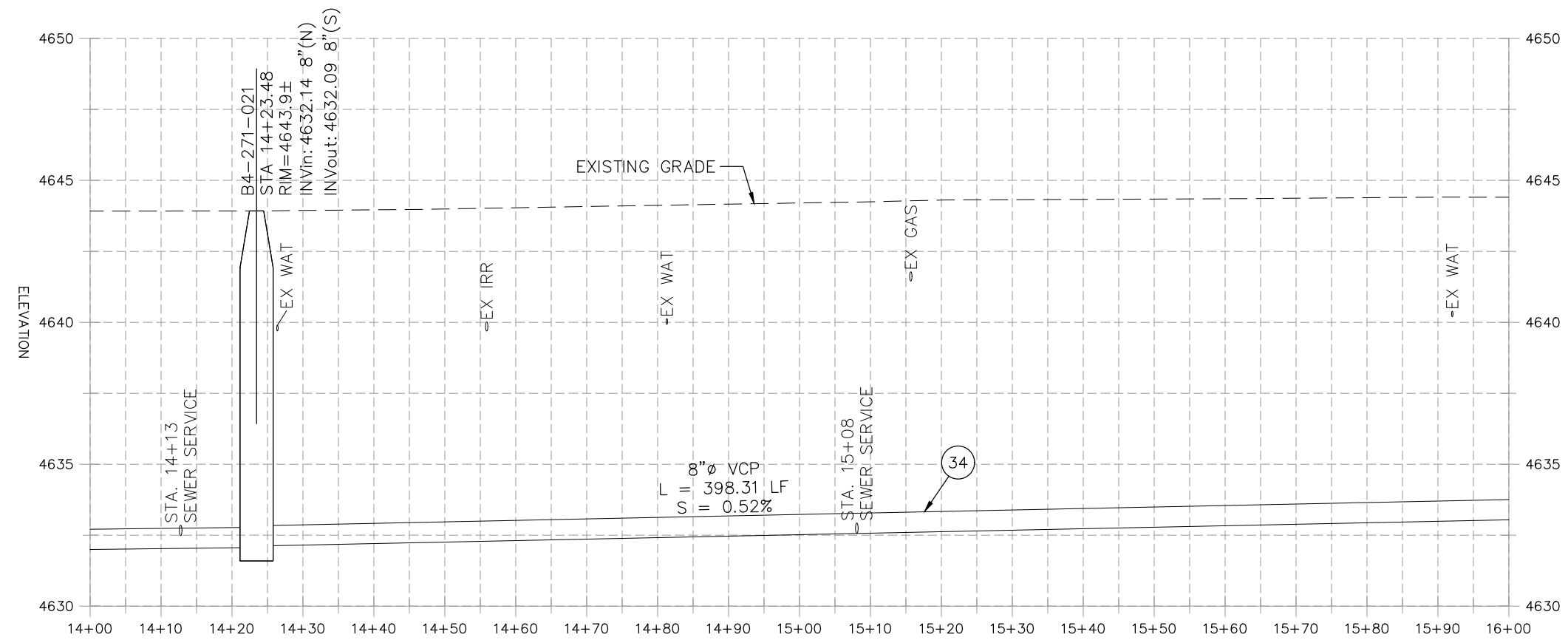


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ENGINEERING DIVISION**

**2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 12+00 TO STA 14+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
 - 809 PROTECT MANHOLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



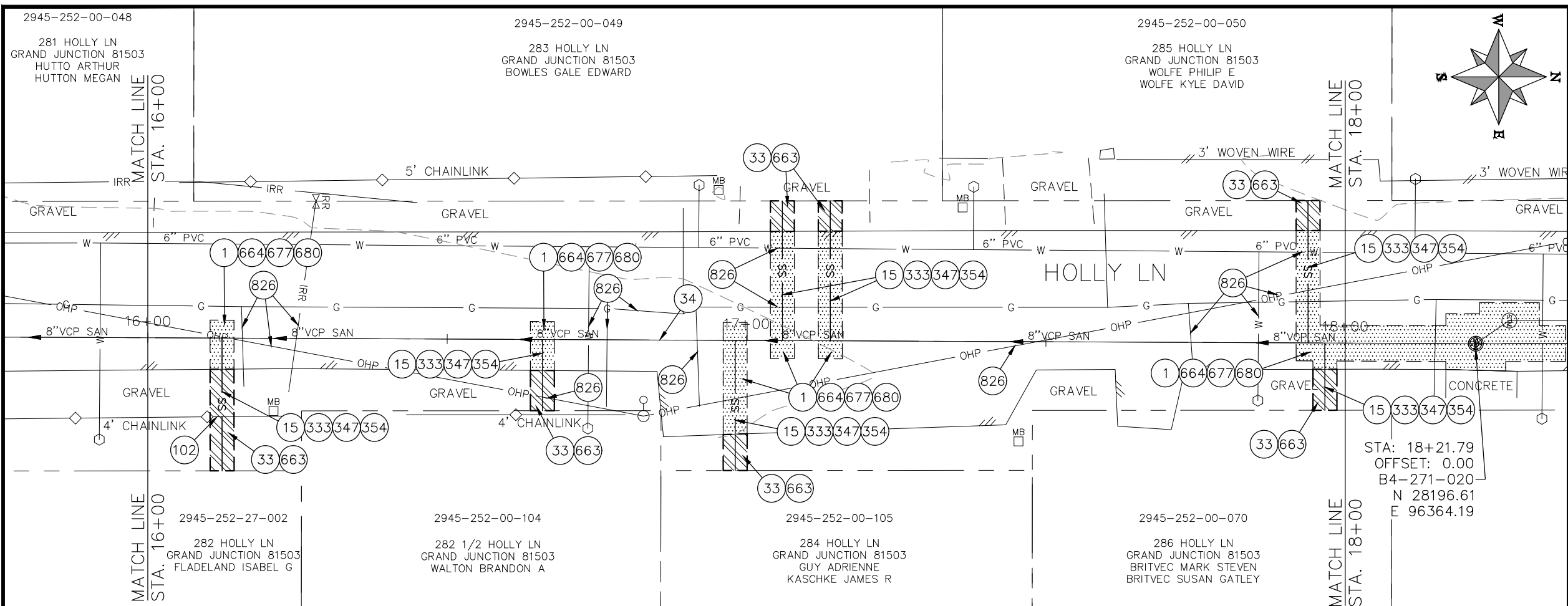
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	202X	09/2022	DRAWN BY DJM
REVISION Δ XXX	202X	09/2022	DESIGNED BY DJM
REVISION Δ XXX	202X	09/2022	CHECKED BY IRT
REVISION Δ XXX	202X	09/2022	APPROVED BY KH

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

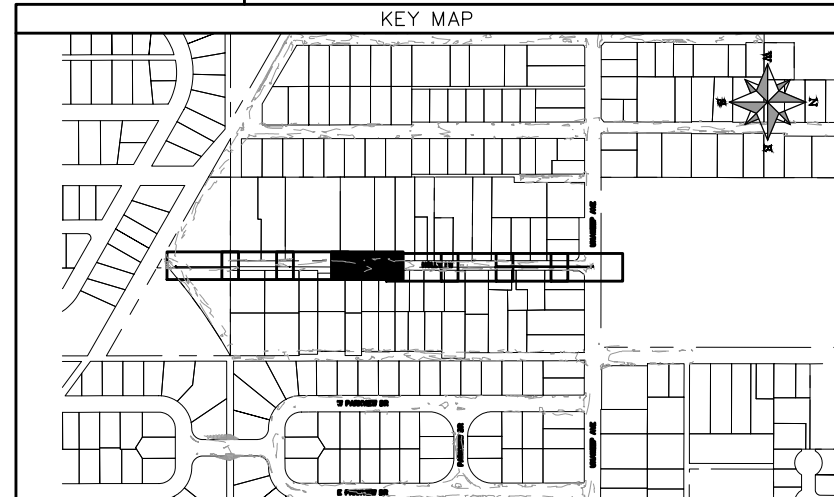
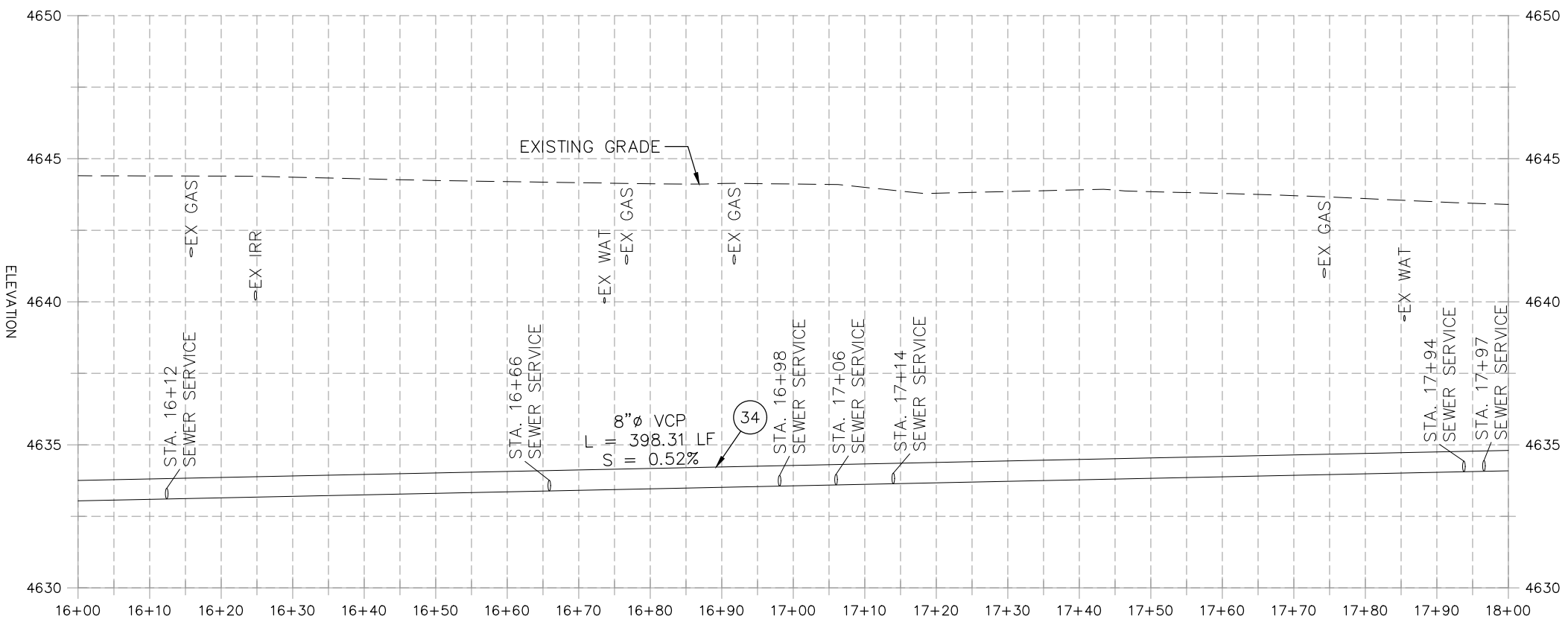
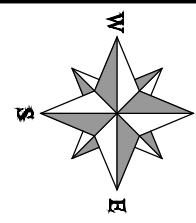


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 14+00 TO STA 16+00**



- CONSTRUCTION NOTES**
- ① 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - ⑮ 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - ③③ 202 - REMOVE EXISTING SURFACE MATERIAL.
 - ③④ SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - ⑩② 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOWN ON PLAN)
 - ③③③ 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - ③④⑦ 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - ③⑤④ 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - ⑥⑥③ 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - ⑥⑥④ 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - ⑥⑦⑦ 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - ⑥⑧① 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - ⑧②⑥ PROTECT EXISTING UTILITY LINE IN PLACE.
- STA: 18+21.79
OFFSET: 0.00
B4-271-020
N 28196.61
E 96364.19
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	- 202X	DRAWN BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DESIGNED BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE

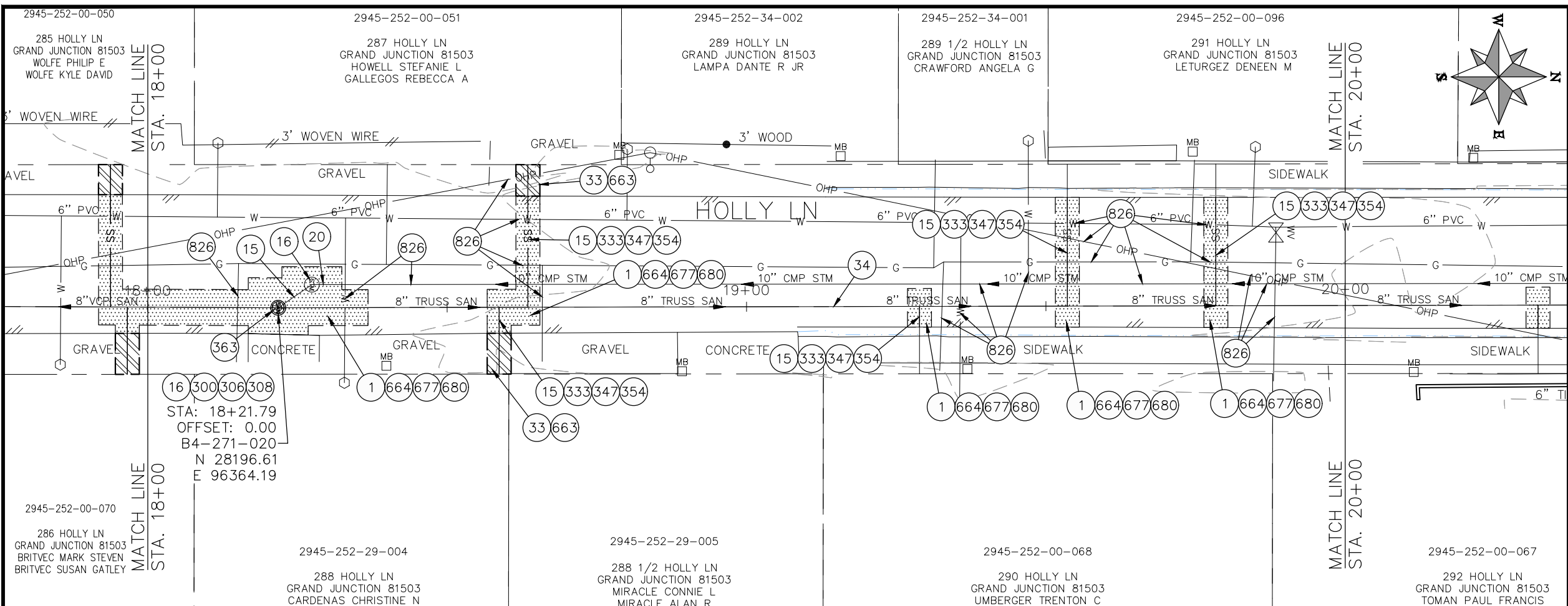
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VERTICAL: 1" = 5'

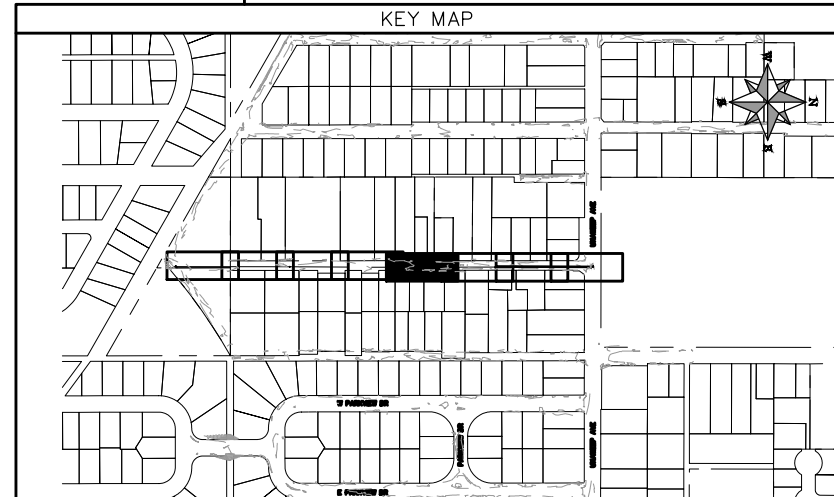
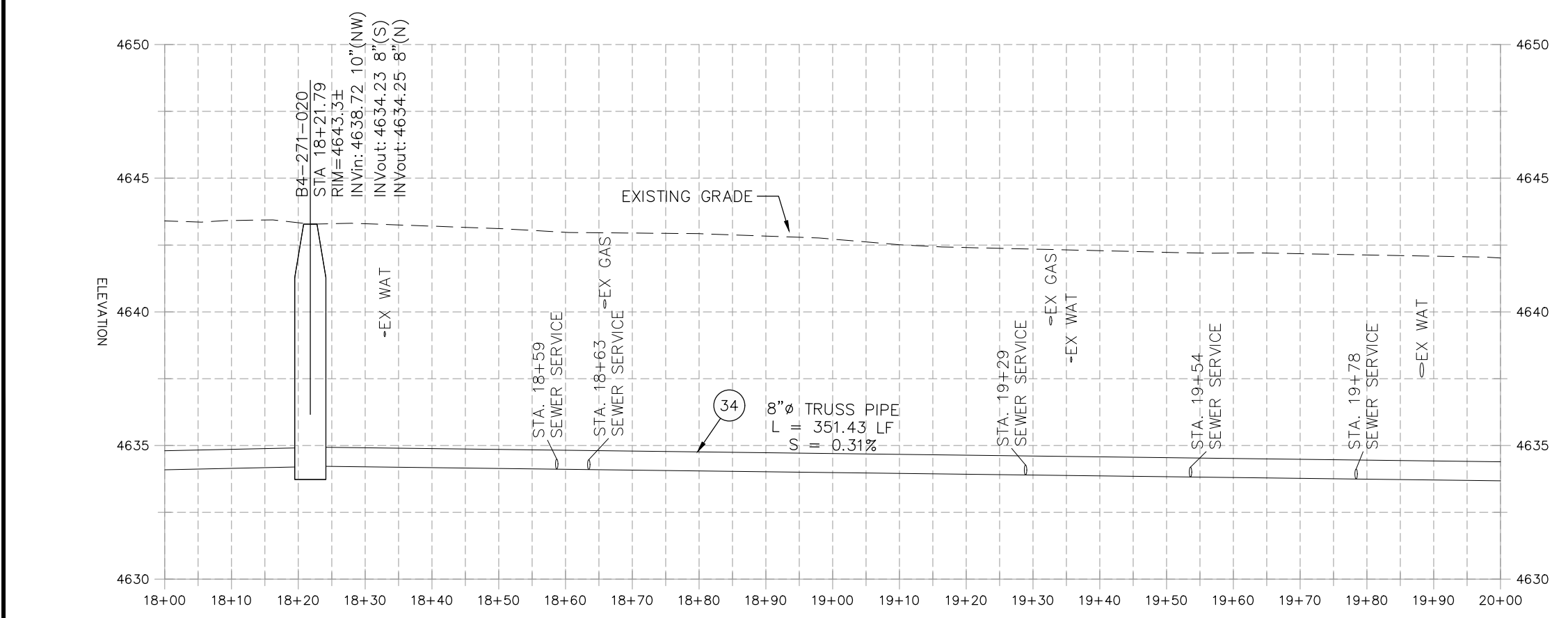
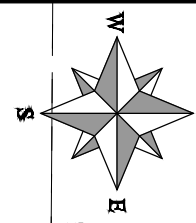


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 16+00 TO STA 18+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL) (20" JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.



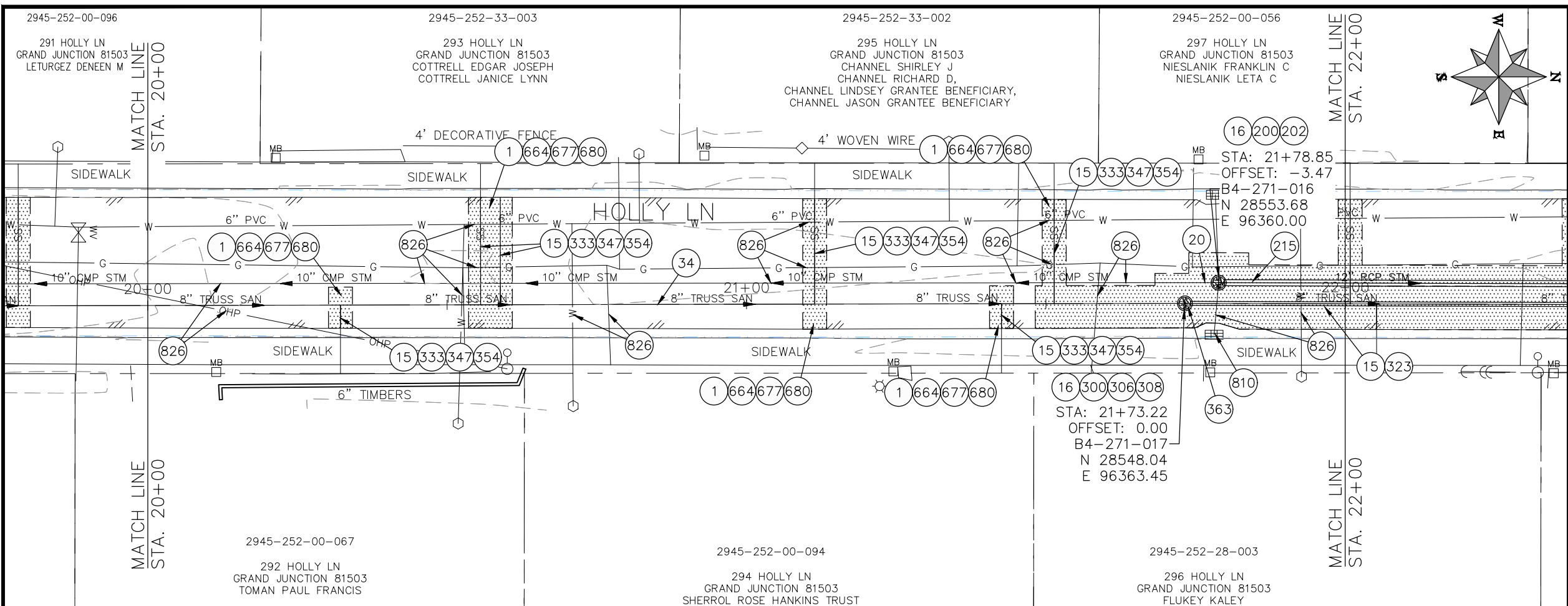
REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY TRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

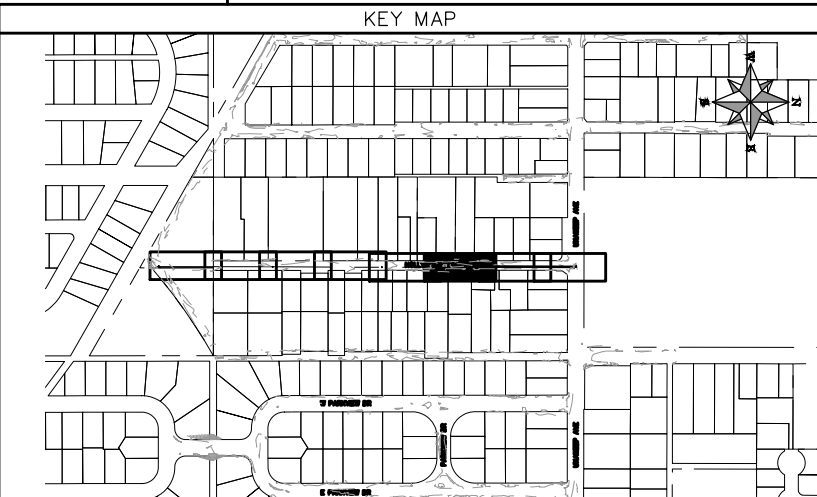
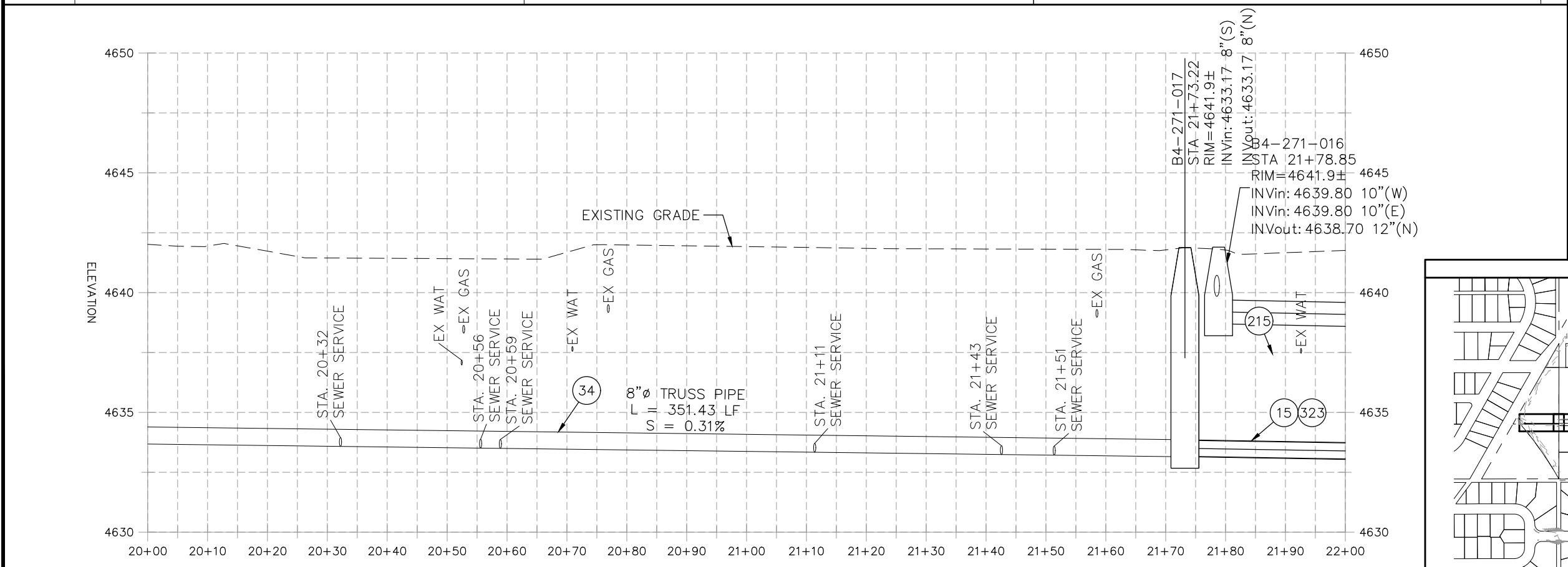
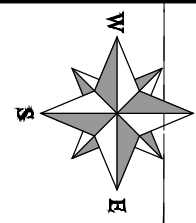


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 18+00 TO STA 20+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 200 102.11/108.5 - STORM SEWER BASIC MANHOLE (48" I.D.) INCLUDES CONNECTION OF ADJACENT STORM SEWER LINES, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-03).
 - 202 102.11/108.5 - MANHOLE BARREL SECTION (D > 5')(48" I.D.).
 - 215 102.10/108.2 - 12" STORM DRAIN PIPE (REINFORCED CONCRETE PIPE). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 810 PROTECT STORM DRAIN INLET
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



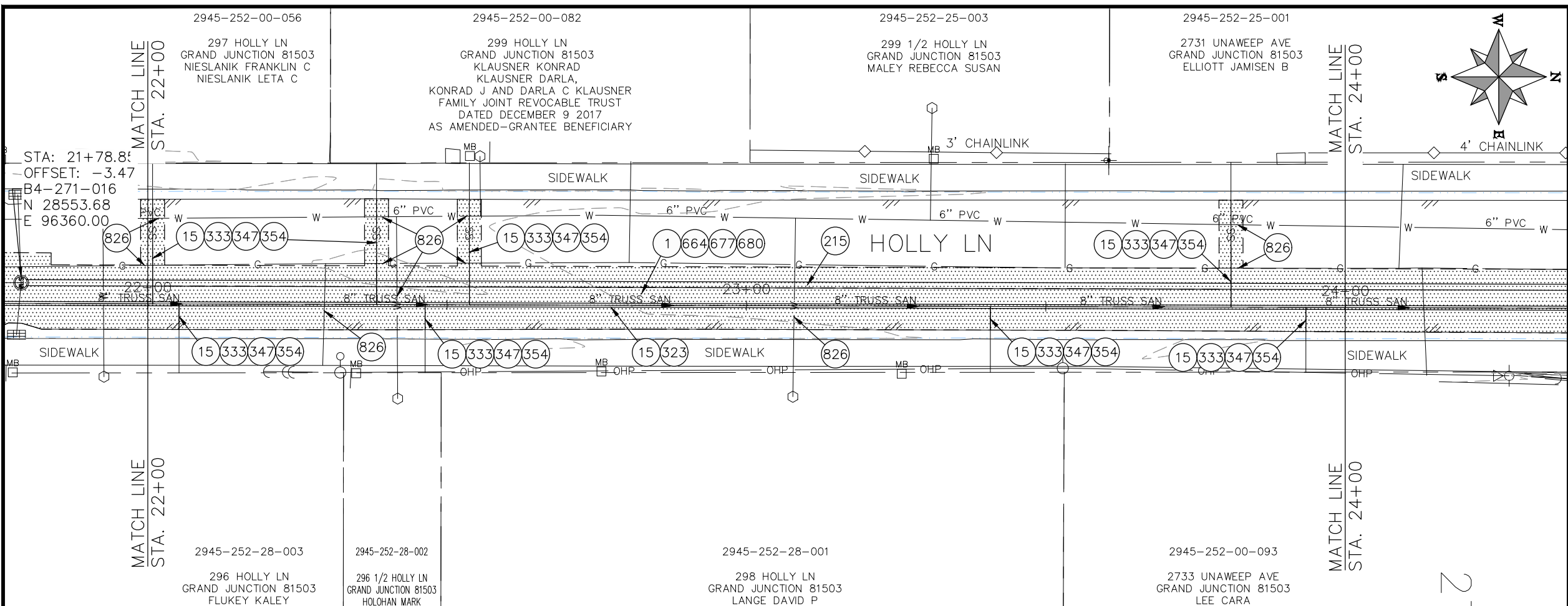
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REVISION C XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION D XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'

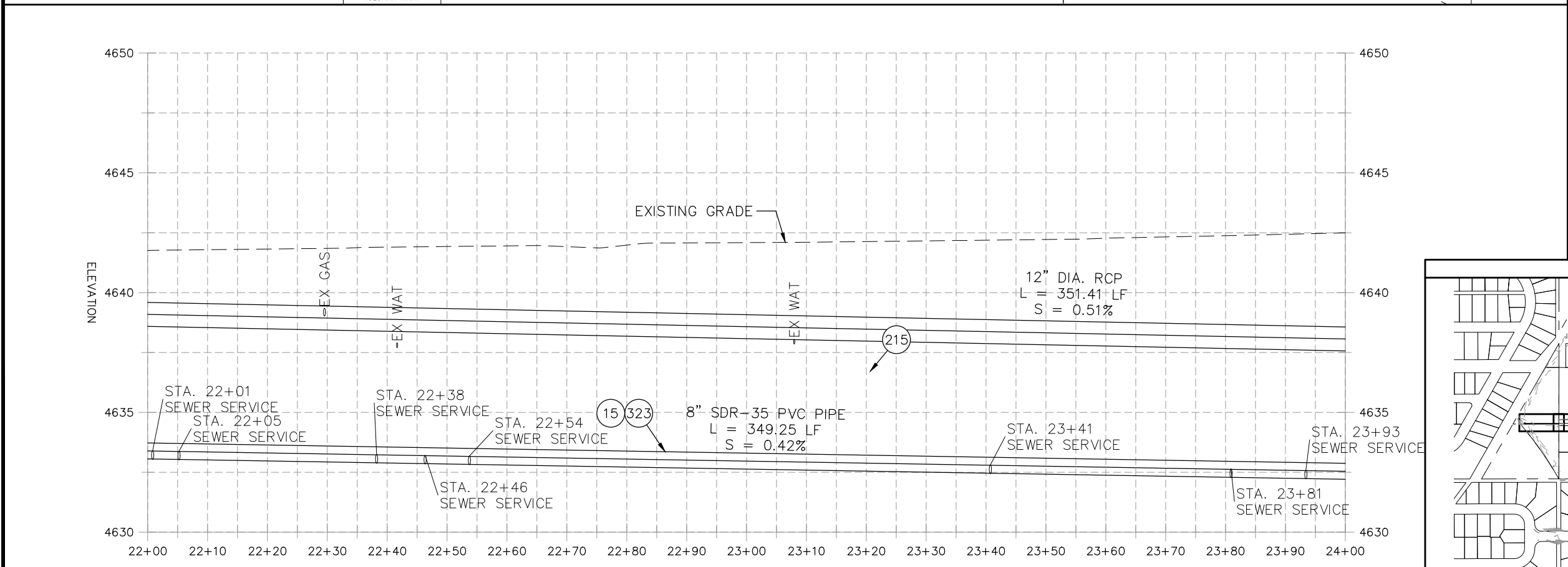


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ENGINEERING DIVISION

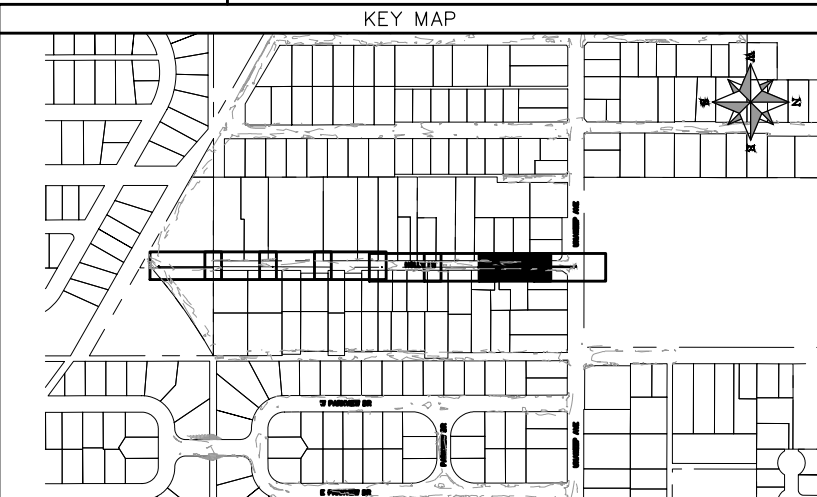
2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 20+00 TO STA 22+00



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 215 102.10/108.2 - 12\"/>
- 2



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



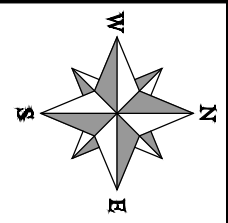
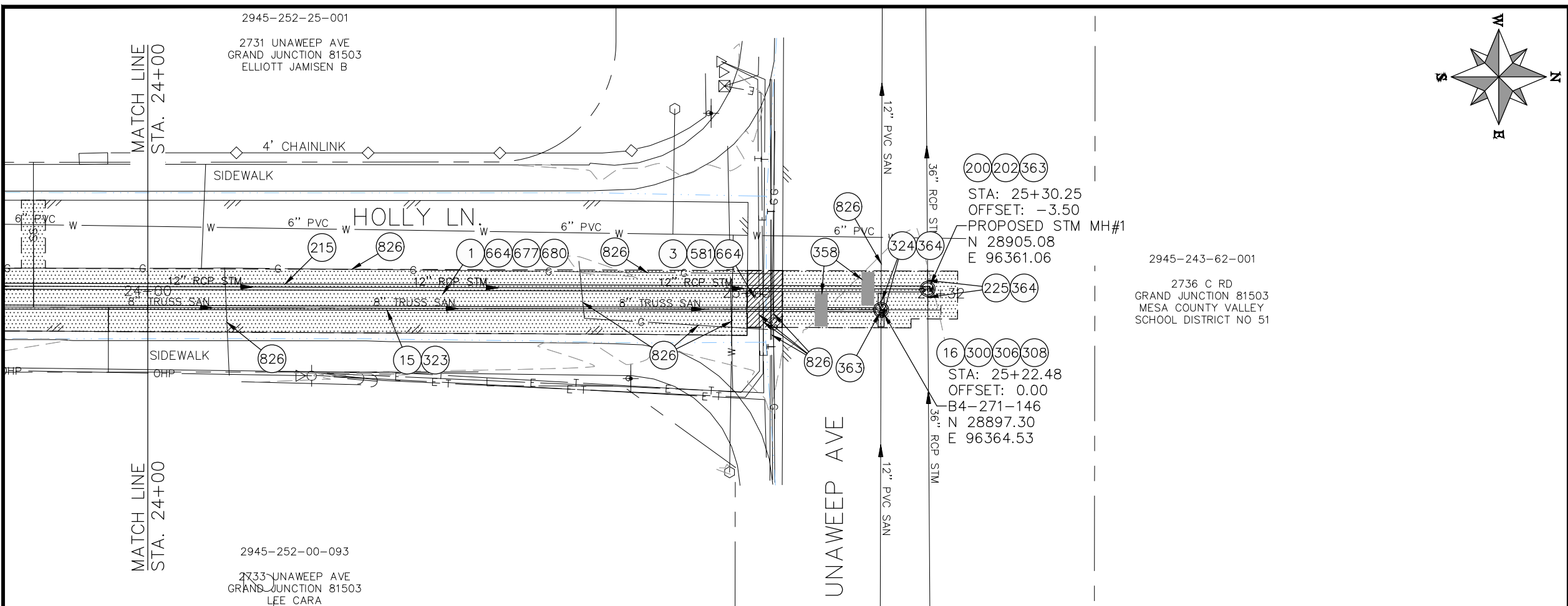
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REVISION Δ XXX	- 202X	CHECKED BY TRT DATE 09/2022	
REVISION Δ XXX	- 202X	APPROVED BY KH DATE 09/2022	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

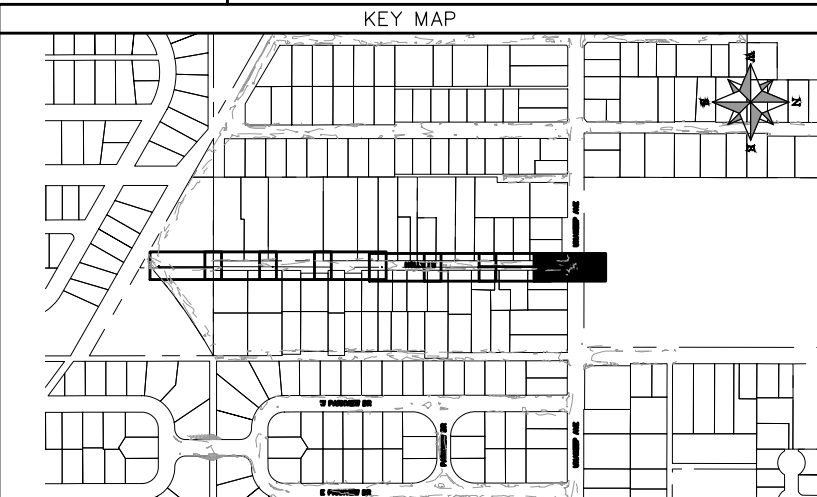
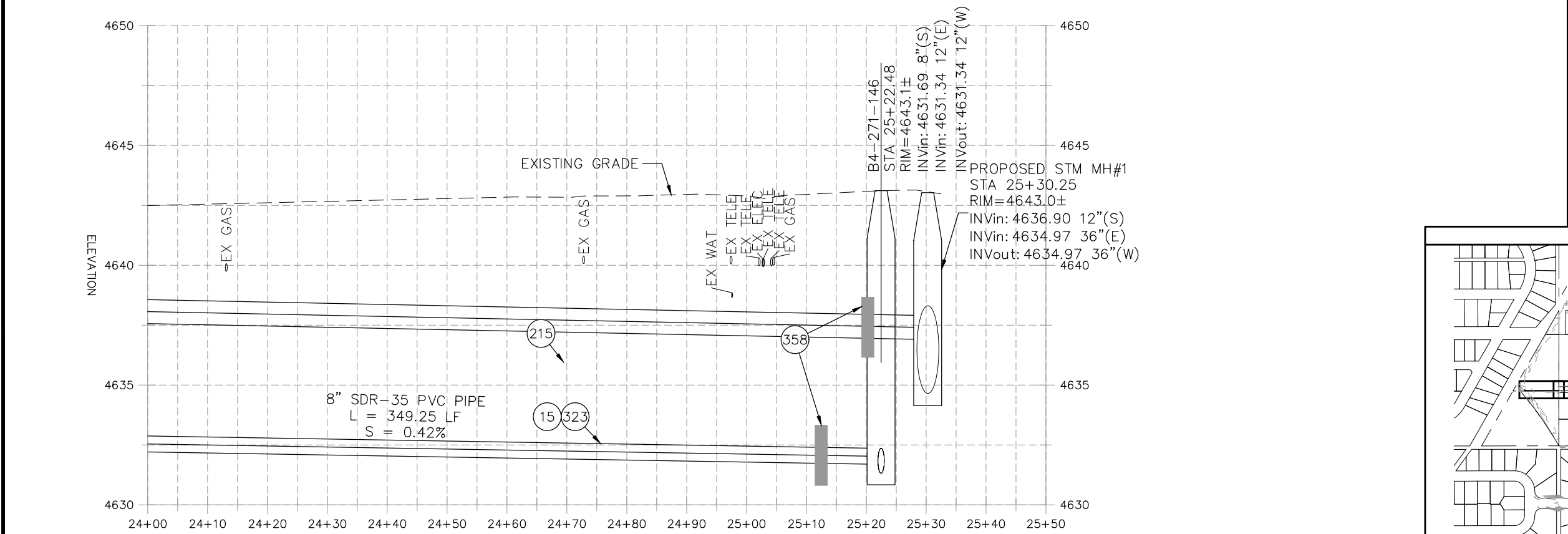


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ENGINEERING DIVISION**

**2022 SEWER REPLACEMENT - PARSES 2-3
HOLLY LANE PLAN AND PROFILE
STA 22+00 TO STA 24+00**



- CONSTRUCTION NOTES**
- 1 202 - 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.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 200 102.11/108.5 - STORM SEWER BASIC MANHOLE (48" I.D.) INCLUDES CONNECTION OF ADJACENT STORM SEWER LINES, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-03).
 - 202 102.11/108.5 - MANHOLE BARREL SECTION (D > 5')(48" I.D.).
 - 215 102.10/108.2 - 12" STORM DRAIN PIPE (REINFORCED CONCRETE PIPE). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 225 102.10/108.2 - 36" STORM DRAIN PIPE (MATERIAL RCP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. (FLOW-FILL BACKFILL)
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 581 608.06 - CONCRETE DRAINAGE PAN (6" WIDE) (8" THICK MIN.)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



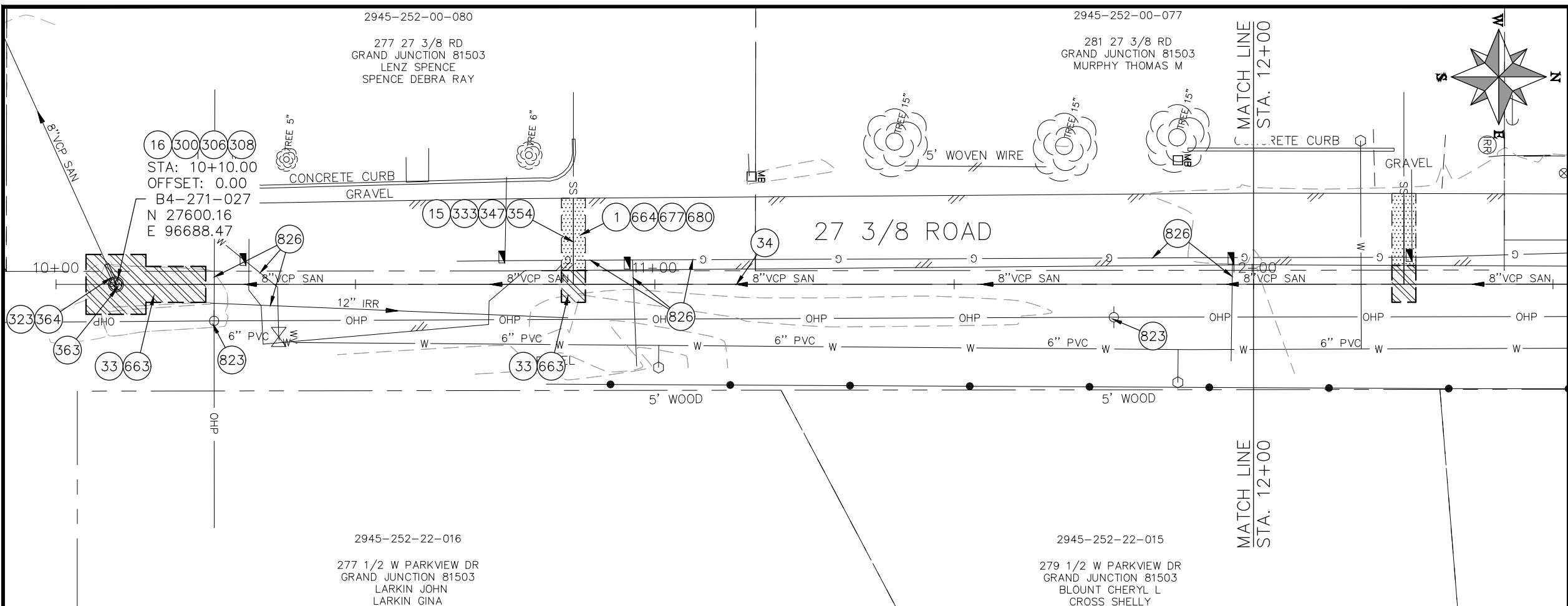
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REVISION Δ XXX	202X	DRAWN BY DJM	DATE 09/2022
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REVISION Δ XXX	202X	CHECKED BY TRT	DATE 09/2022
REVISION Δ XXX	202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 0 5 10 20
 VERTICAL: 1" = 5'
 0 1.25 2.5 5

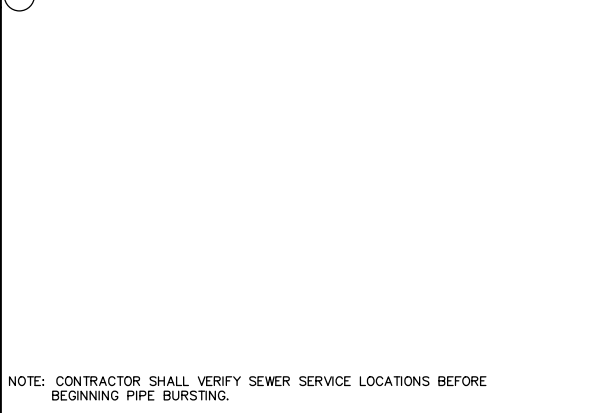
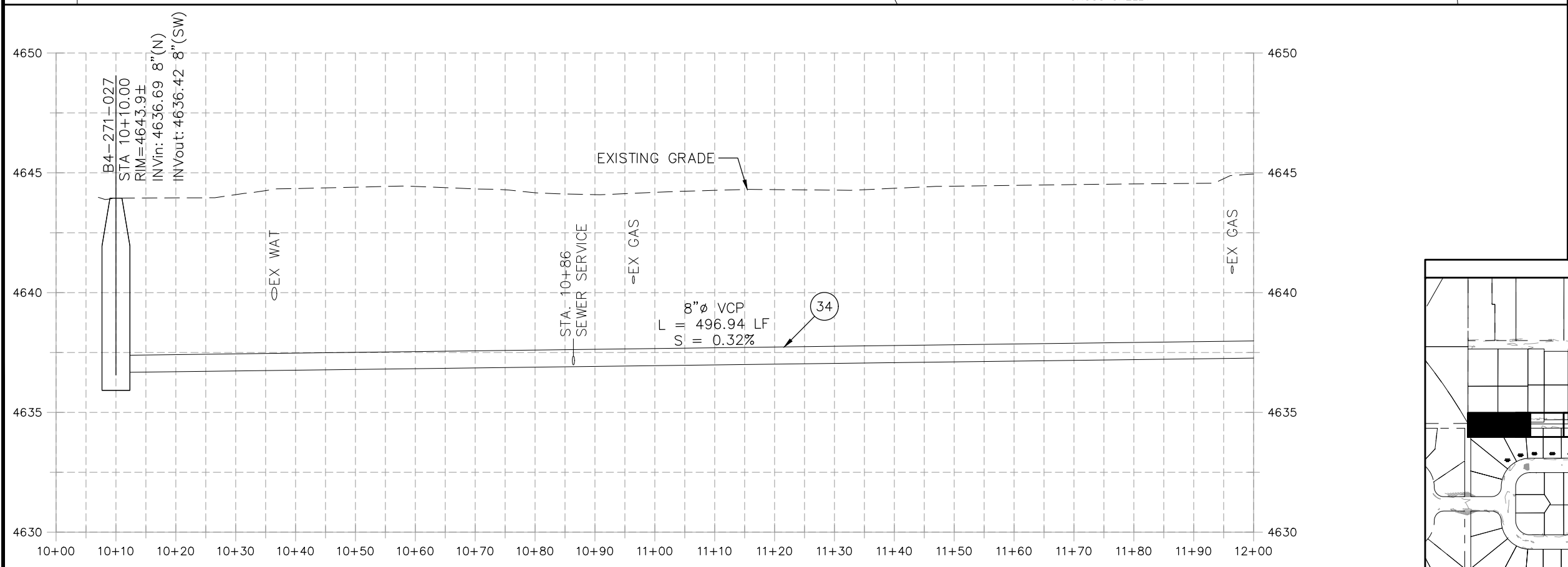


PUBLIC WORKS
 ENGINEERING DIVISION

2022 SEWER REPLACEMENT - PARSES 2-3
 HOLLY LANE PLAN AND PROFILE
 STA 24+00 TO STA 25+32



- ### CONSTRUCTION NOTES
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



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REVISION Δ XXX		202X
REVISION Δ XXX		202X
REVISION Δ XXX		202X

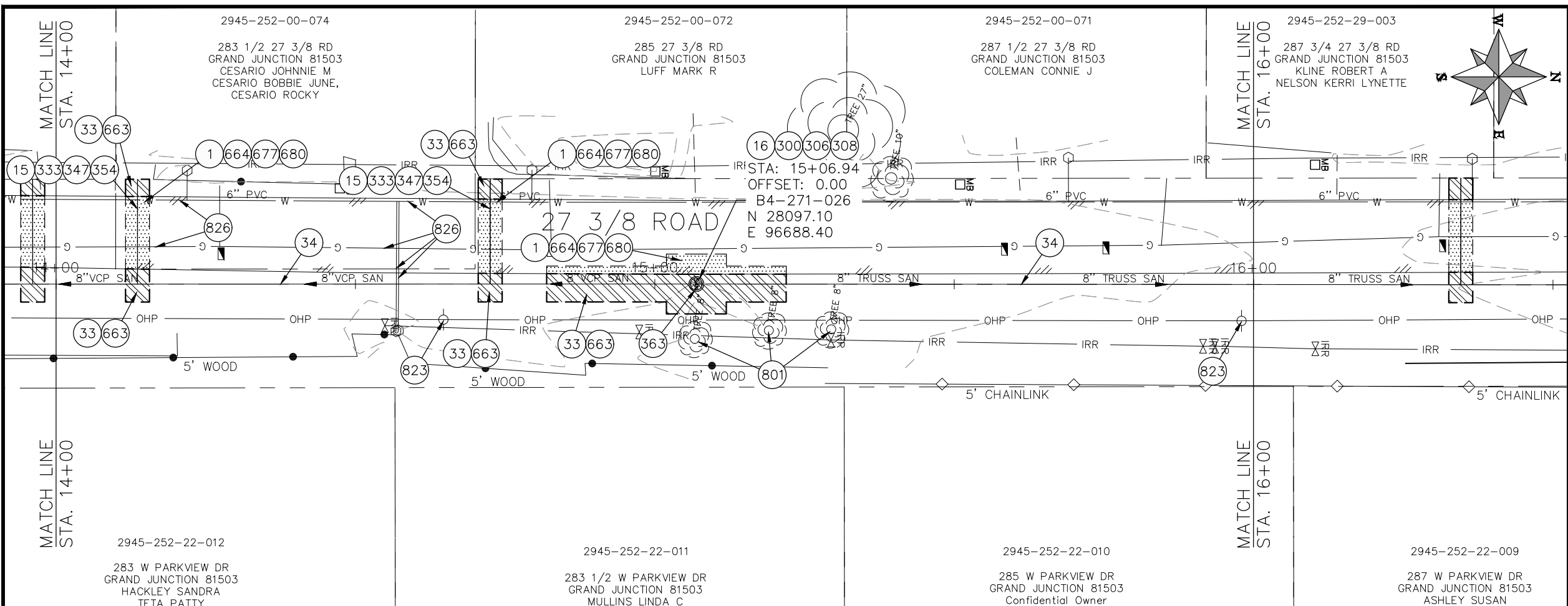
PROJECT NO. F001642
DRAWN BY DJM DATE 09/2022
DESIGNED BY DJM DATE 09/2022
CHECKED BY IRT DATE 09/2022
APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

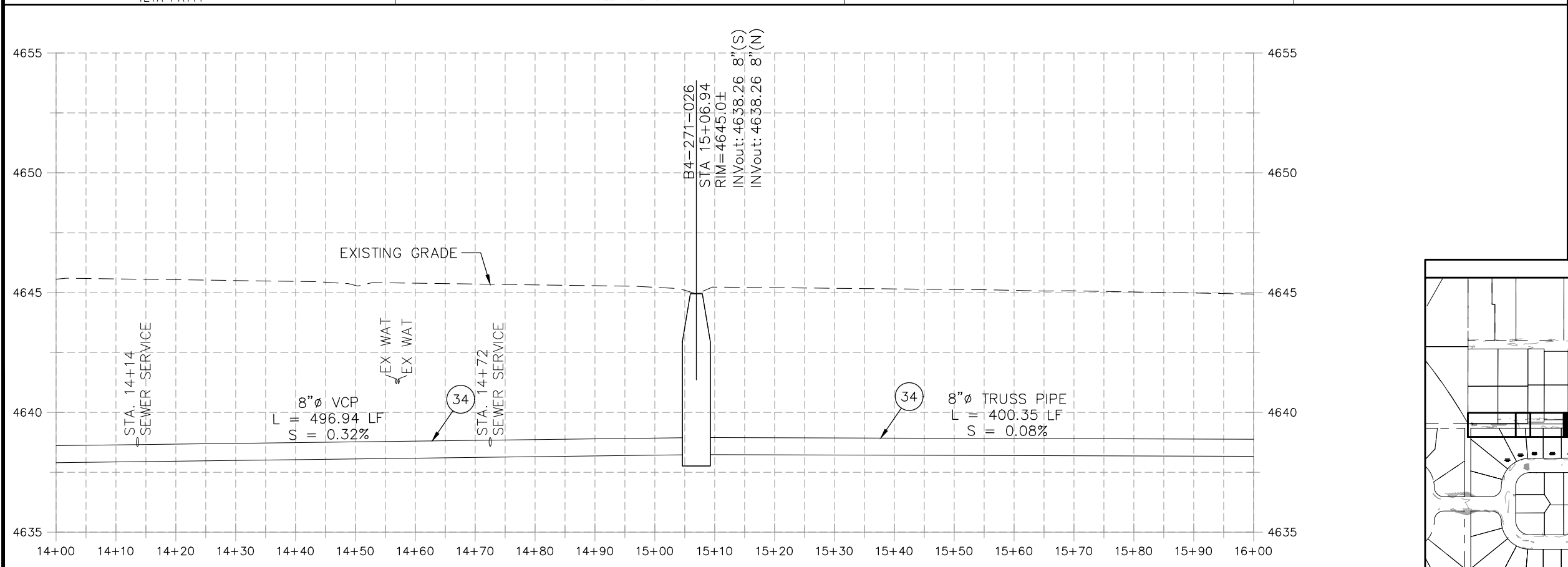


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 10+00 TO STA 12+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 801 PROTECT TREE
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



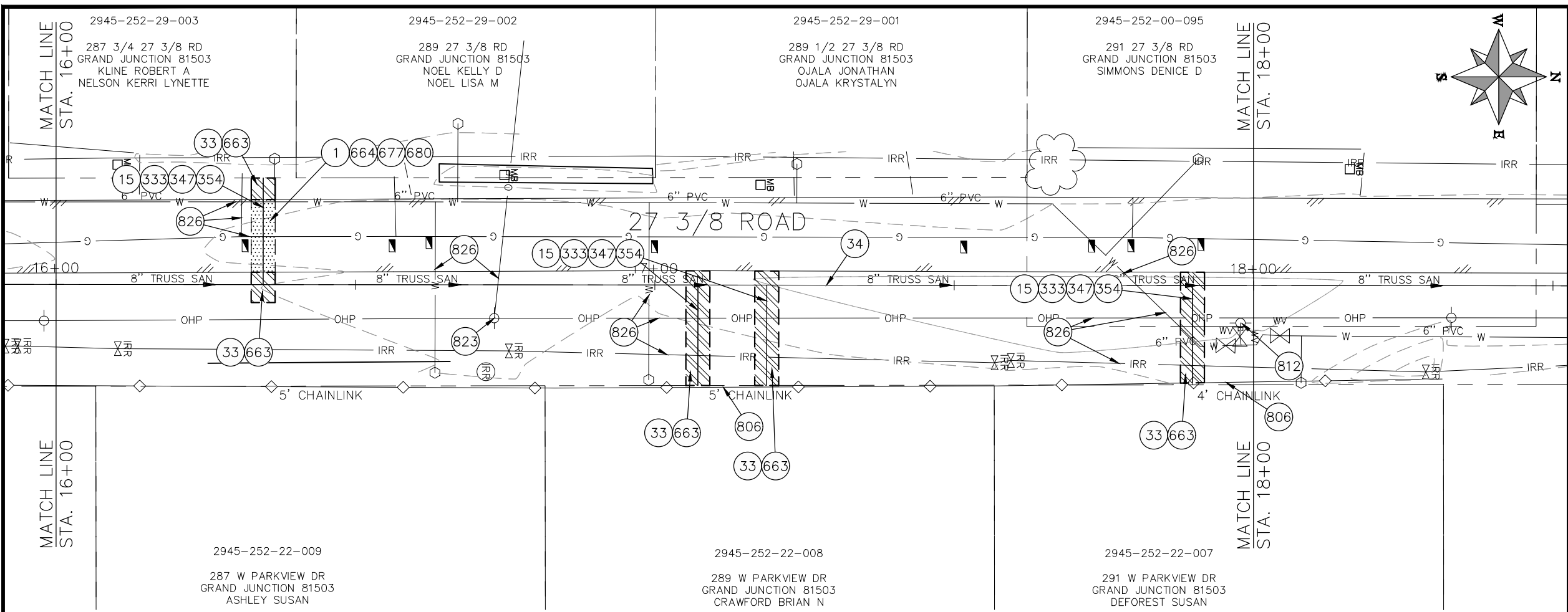
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REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

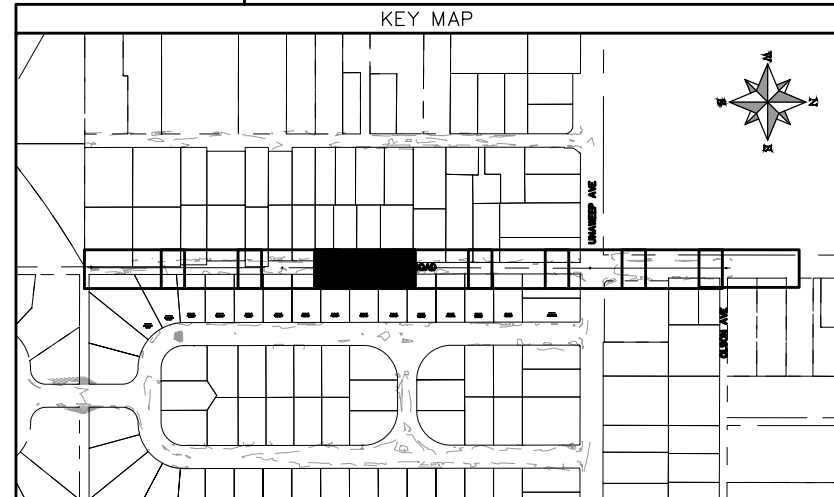
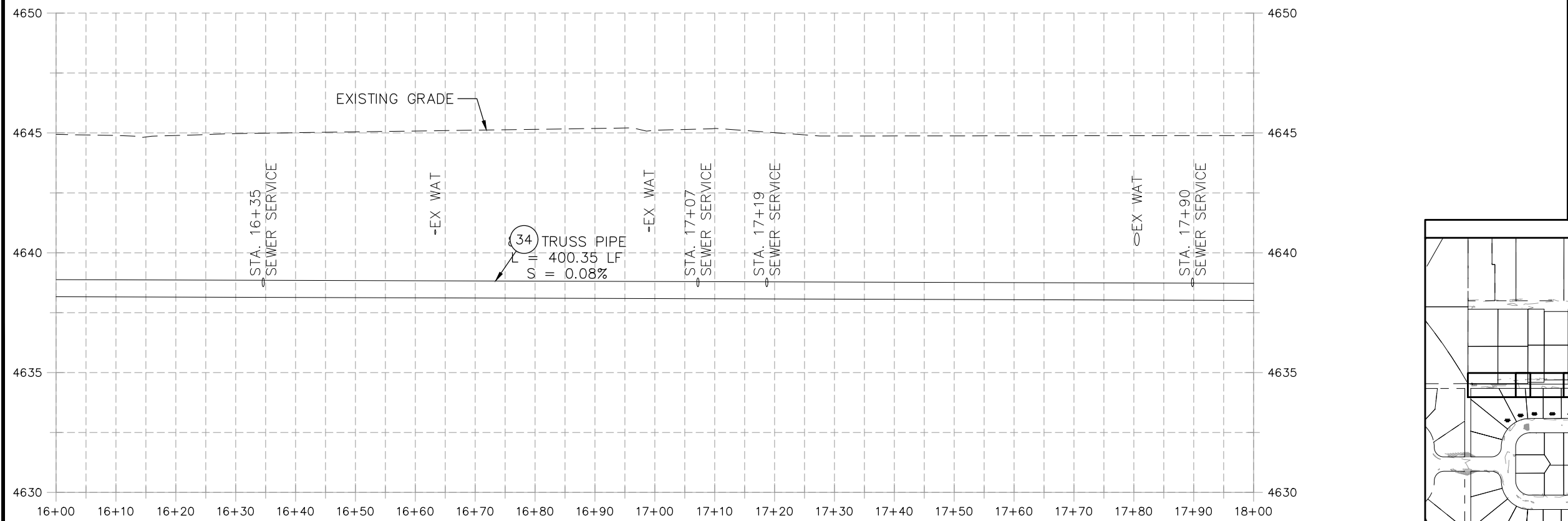


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 14+00 TO STA 16+00**



- CONSTRUCTION NOTES**
- (15) 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - (33) 202 - REMOVE EXISTING SURFACE MATERIAL.
 - (34) SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - (333) 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - (347) 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - (354) 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - (663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - (806) PROTECT FENCE
 - (812) PROTECT FIRE HYDRANT
 - (823) PROTECT UTILITY POLE
 - (826) PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

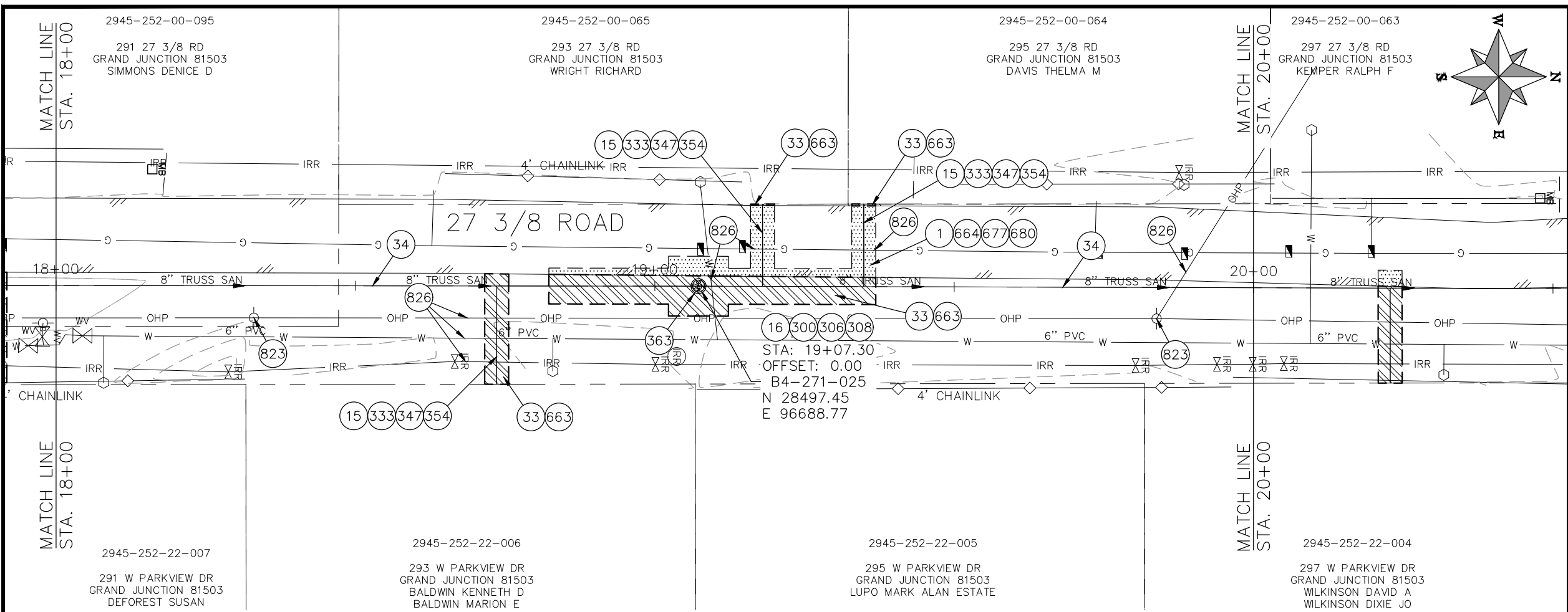
SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

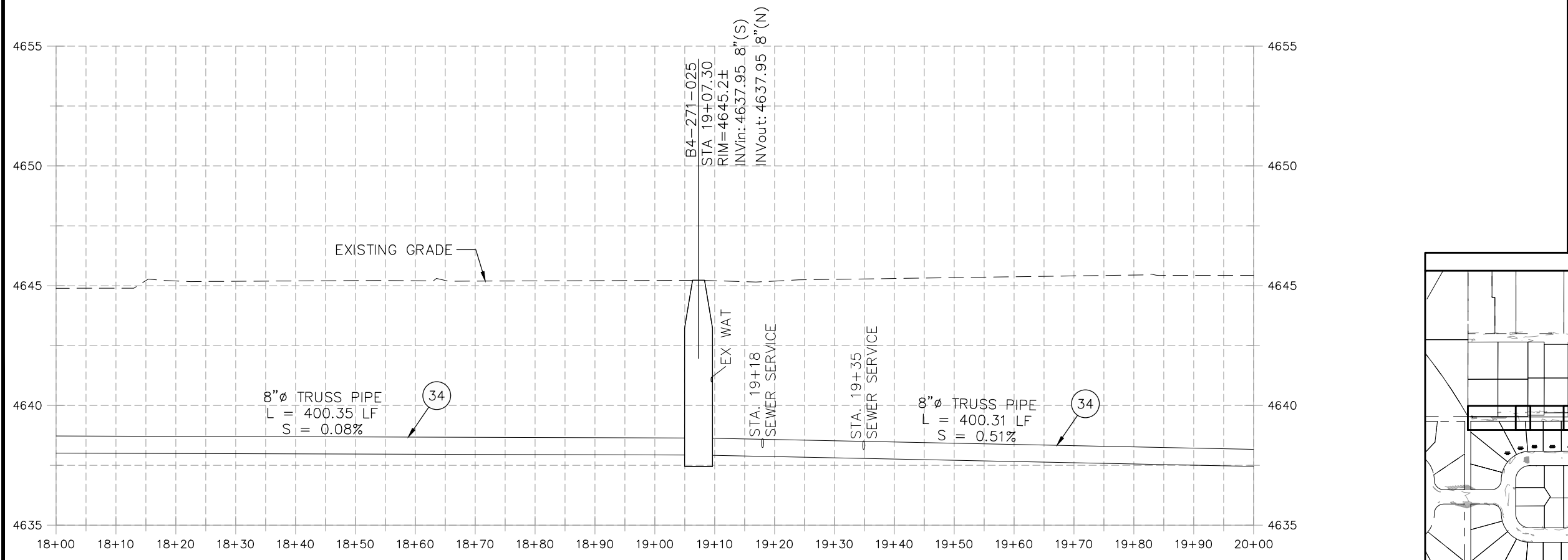


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 16+00 TO STA 18+00**



- ### CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5) (48" I.D.).
 - 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



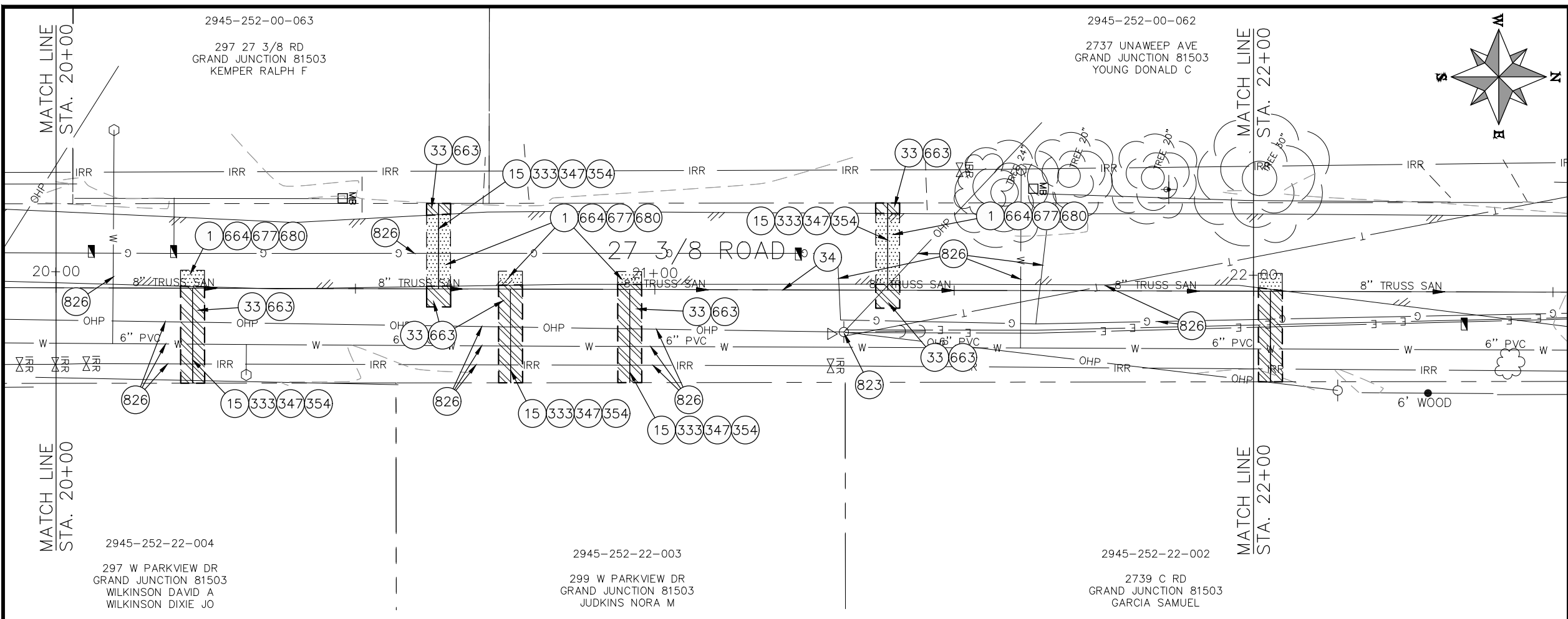
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202X		09/2022	
202X		09/2022	
202X		09/2022	

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5

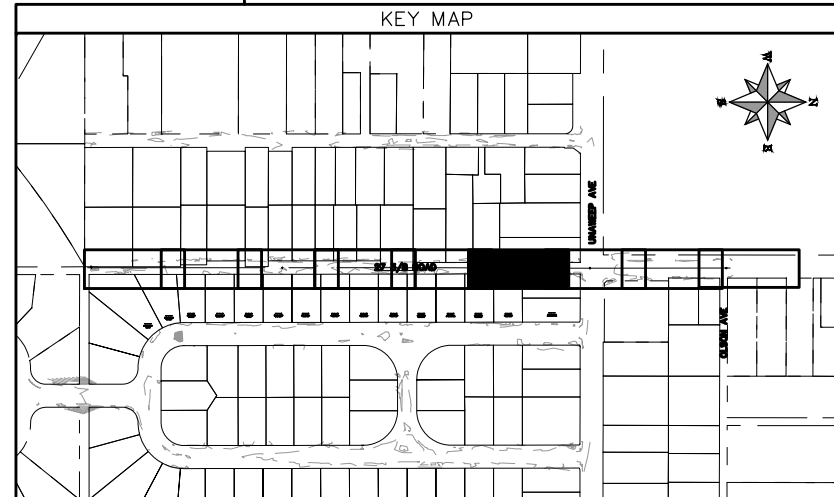
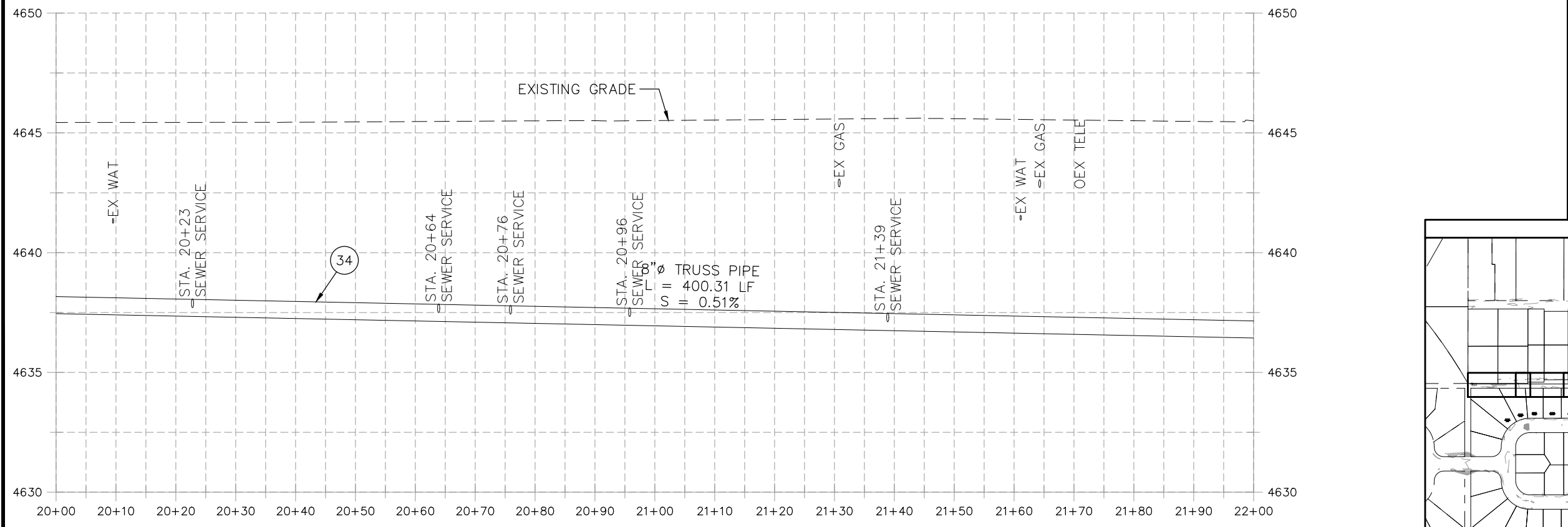
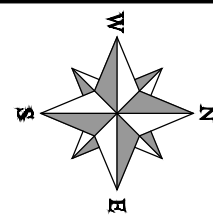


**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 18+00 TO STA 20+00**



- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 33 202 - REMOVE EXISTING SURFACE MATERIAL.
 - 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
 - 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
 - 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
 - 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
 - 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
 - 823 PROTECT UTILITY POLE
 - 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	- 202X	DRAWN BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	DESIGNED BY DJM	DATE 09/2022
REVISION Δ XXX	- 202X	CHECKED BY IRT	DATE 09/2022
REVISION Δ XXX	- 202X	APPROVED BY KH	DATE 09/2022

SCALES: PLAN & PROFILE

HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

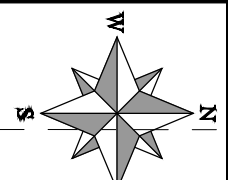


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 20+00 TO STA 22+00

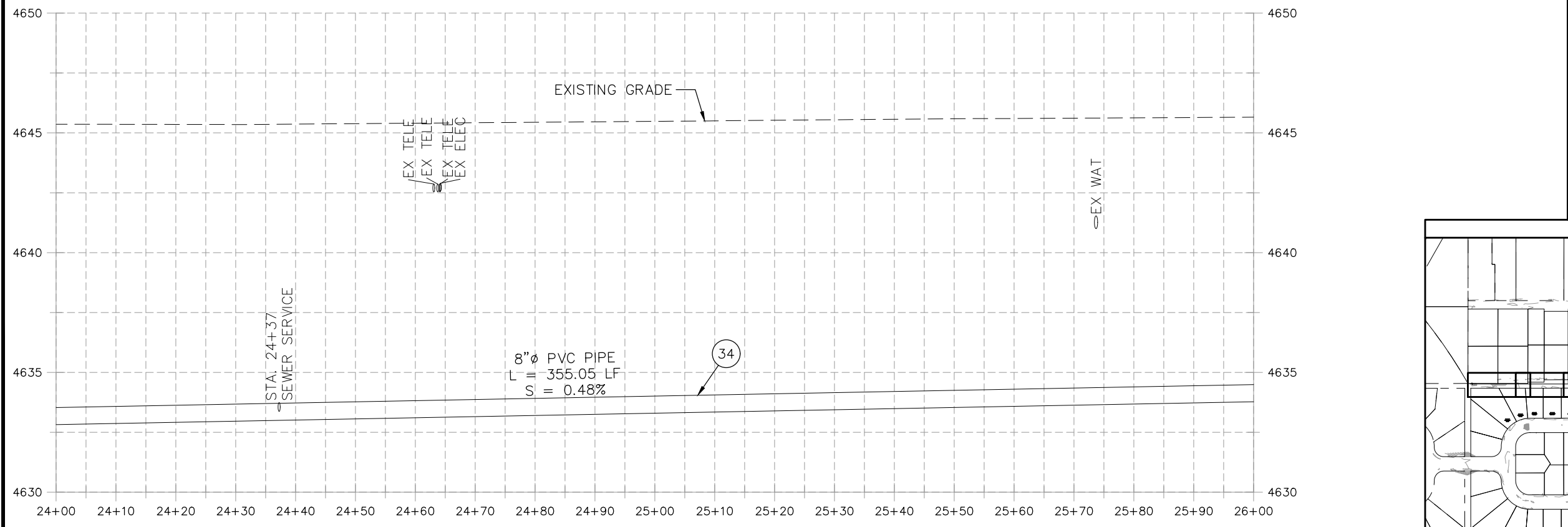
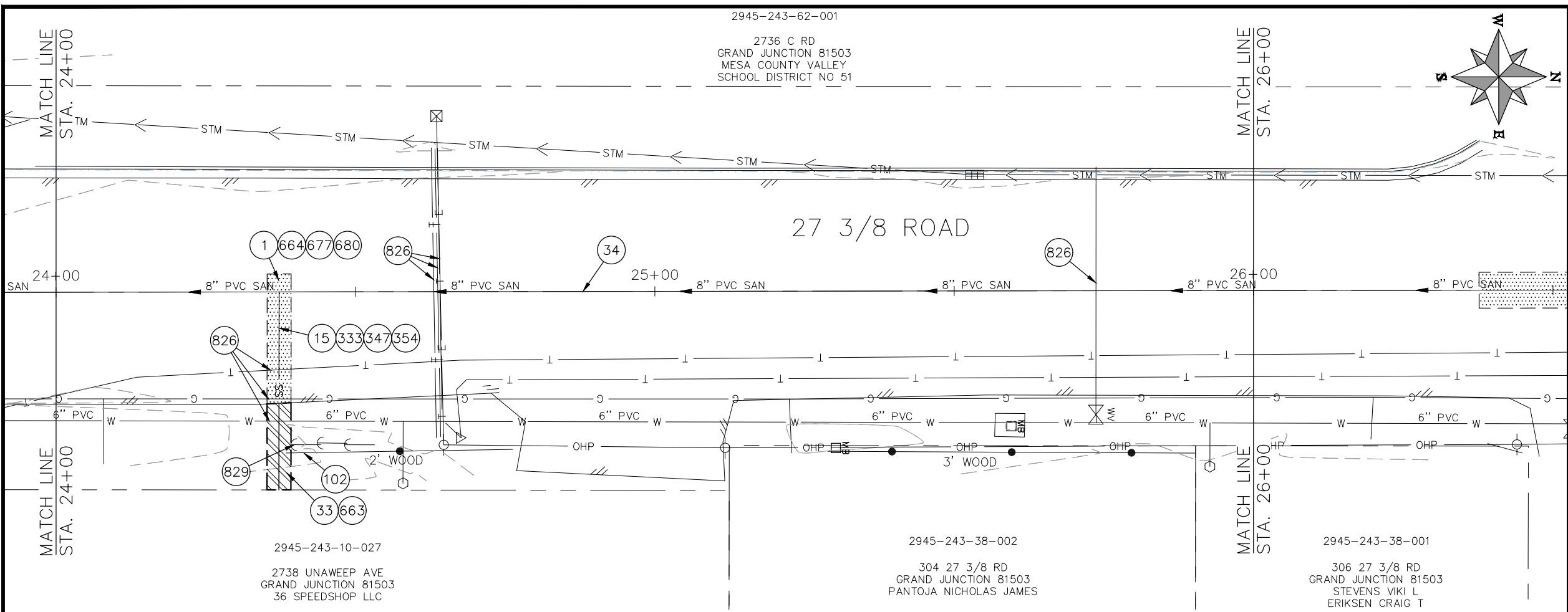
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2736 C RD
GRAND JUNCTION 81503
MESA COUNTY VALLEY
SCHOOL DISTRICT NO 51



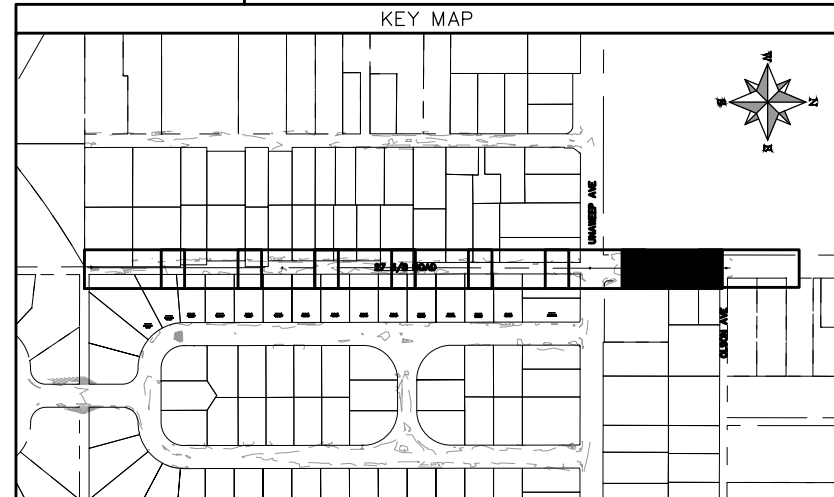
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 33 202 - REMOVE EXISTING SURFACE MATERIAL.
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
- 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 333 102.9/108.2 - 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL, AND END-OF-SERVICE CAP.
- 347 8"x4" SEWER SERVICE TAP. INSTALL INSERTA TEE PER MANUFACTURERS INSTRUCTIONS.
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 829 PROTECT GUY WIRE



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.

KEY MAP



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX	202X	DJM	DATE 09/2022
REVISION Δ XXX	202X	DJM	DATE 09/2022
REVISION Δ XXX	202X	IRT	DATE 09/2022
REVISION Δ XXX	202X	KH	DATE 09/2022

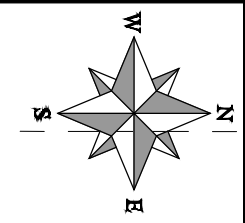
SCALES: PLAN & PROFILE
 HORIZONTAL: 1" = 20'
 0 5 10 20
 VERTICAL: 1" = 5'
 0 1.25 2.5 5



PUBLIC WORKS
ENGINEERING DIVISION

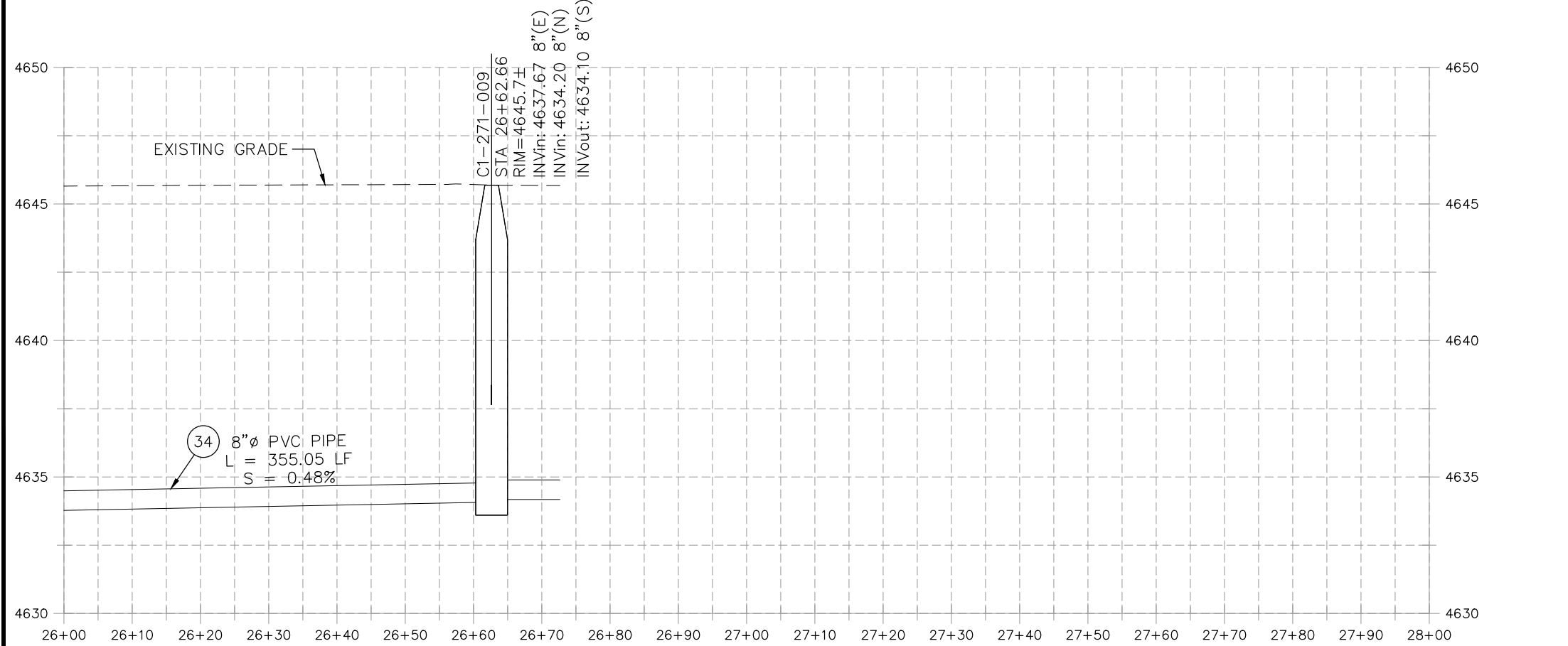
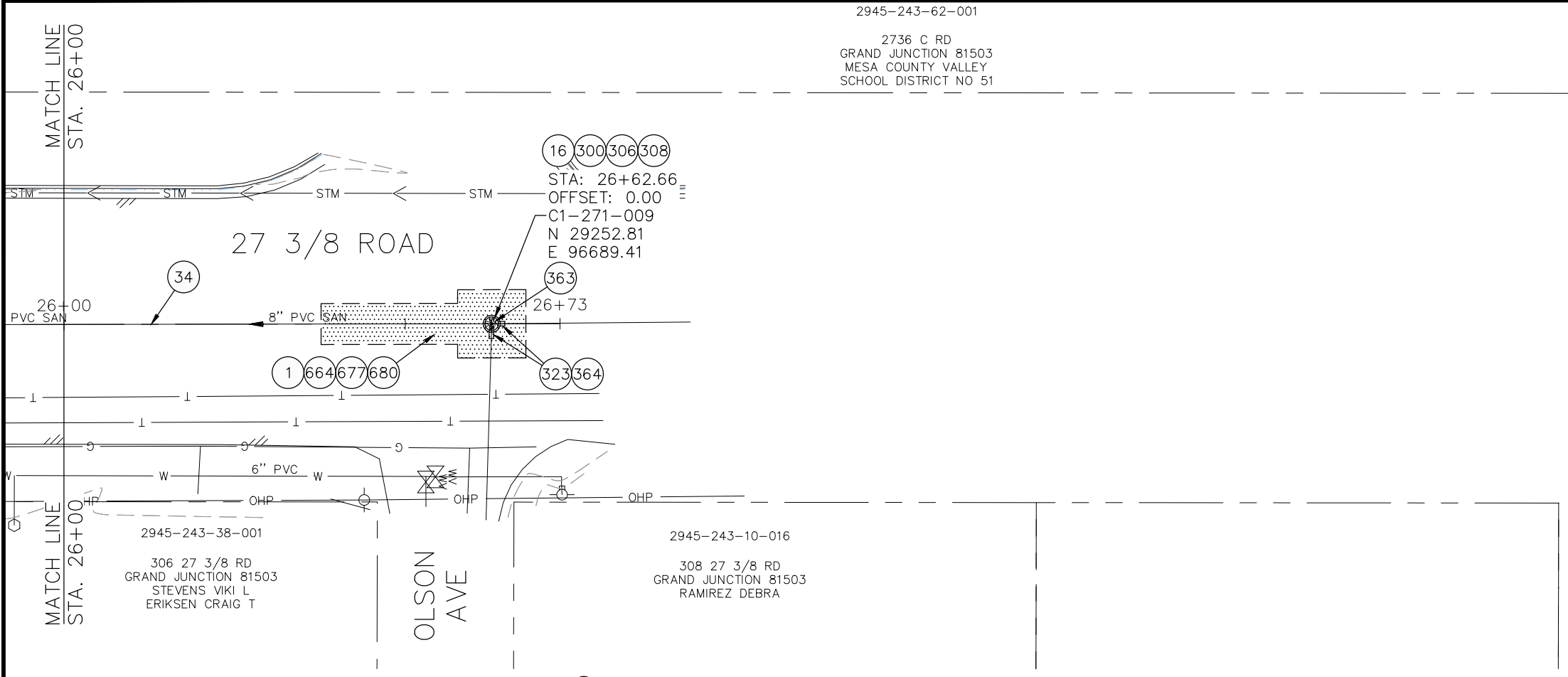
2022 SEWER LINE REPLACEMENT - PARSES 2-3
27 3/8 ROAD PLAN AND PROFILE
STA 24+00 TO STA 26+00

2736 C RD
 GRAND JUNCTION 81503
 MESA COUNTY VALLEY
 SCHOOL DISTRICT NO 51

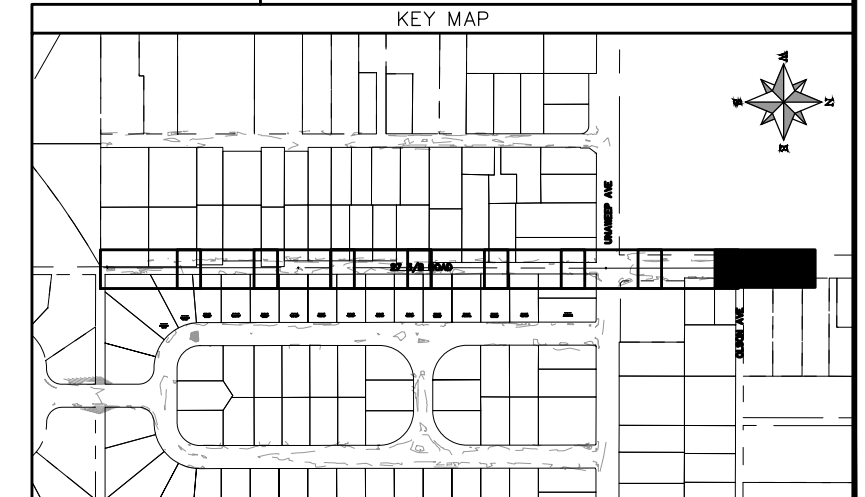


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 34 SP - PIPE BURST EXISTING SANITARY SEWER PER PROJECT SPECIFICATIONS (8" SDR 21 CERTA-FLO GREENLINE PVC PIPE WITH CERTA-LOK ASSEMBLY OR ENGINEER APPROVED EQUAL)(20' JOINTS). FIELD VERIFY SIZE/MATERIAL PRIOR TO PIPE BURSTING. DURING NEW PIPE INSTALLATION, IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO DOWNSTREAM MANHOLE. MAINTAIN ACCESS TO ALL RESIDENTS DURING INSTALLATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
- 308 102.11/108.5 - MANHOLE INTERIOR CORROSION PROTECTION (CASTAGRA ECODUR 201 PROTECTIVE COATING OR APPROVED EQUAL) (PROTECTIVE COATING SHALL BE APPLIED TO PREPARED MANHOLE INVERT, BENCH, BARRELS, AND CONE SECTIONS. MANHOLE INVERTS AND BENCHES SHALL BE COATED PRIOR TO WASTEWATER INTRODUCTION)
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 677 401.08 - HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)



NOTE: CONTRACTOR SHALL VERIFY SEWER SERVICE LOCATIONS BEFORE BEGINNING PIPE BURSTING.



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ XXX		202X	DRAWN BY DJM DATE 09/2022
REVISION Δ XXX		202X	DESIGNED BY DJM DATE 09/2022
REVISION Δ XXX		202X	CHECKED BY IRT DATE 09/2022
REVISION Δ XXX		202X	APPROVED BY KH DATE 09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 20'	0 5 10 20
VERTICAL: 1" = 5'	0 1.25 2.5 5



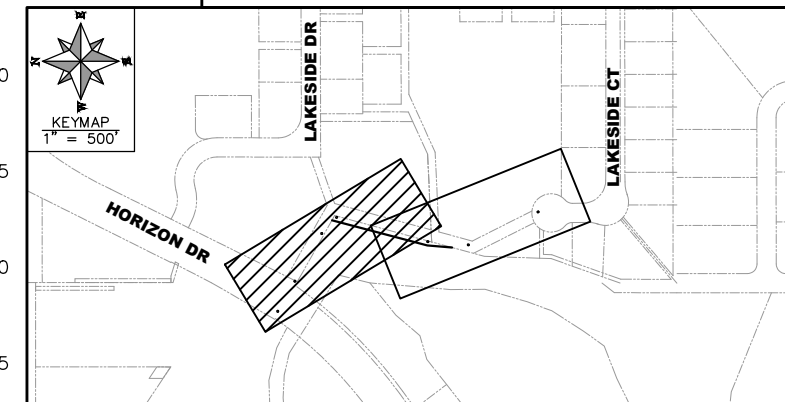
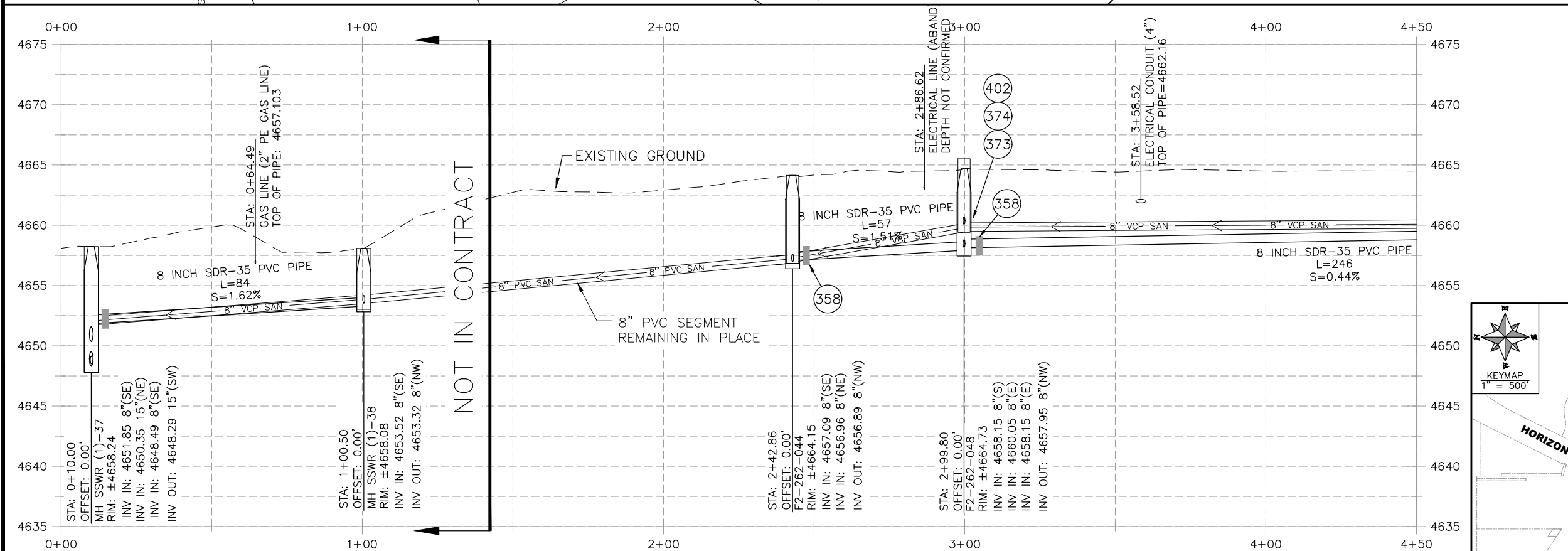
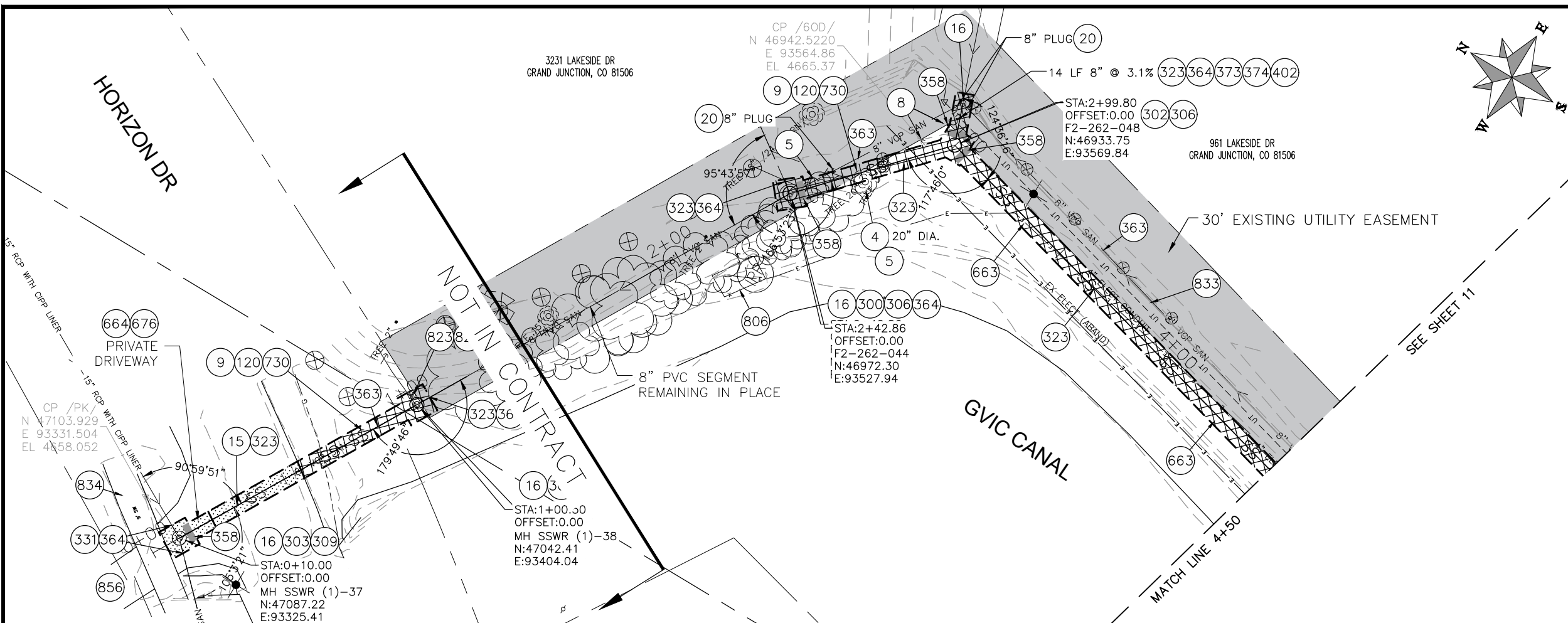
PUBLIC WORKS
 ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENT - PARSES 2-3
 27 3/8 ROAD PLAN AND PROFILE
 STA 26+00 TO END

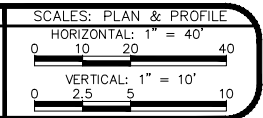
CONSTRUCTION NOTES

- 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
- 5 202 - REMOVAL OF BUSH/SHRUB
- 8 202 - REMOVAL OF TREE STUMP
- 9 202 - REMOVAL OF SOD
- 10 202 - REMOVAL OF LANDSCAPE GROUND COVER AND ANY UNDERLYING BARRIER.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 120 210 - RESET/REPAIR SPRINKLER IRRIGATION SYSTEM (IF NECESSARY)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 302 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY STD. DETAIL SS-04)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 373 102.9/108.3 - 8" 45' ELBOW (GxG)
- 374 102.9/108.3 - 8" x 8" WYE FITTING (FULL BODY WYE) (GxGxG)
- 402 206 - STRUCTURE BACKFILL (FLOW-FILL) (REQUIRED AROUND DROP MANHOLE PIPE PER CITY STD. DETAIL SS-04)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK)
- 730 212 - RESOD AREA AS SHOWN (INCLUDES 6" OF TOPSOIL PLACEMENT PRIOR TO SOD PLACEMENT)
- 738 610 - GROUND COVER MATERIAL (MATCH EXISTING)
- 801 PROTECT TREE (LIMITED PRUNING AS NECESSARY)
- 806 PROTECT FENCE
- 824 PROTECT UTILITY PEDESTAL
- 833 PROTECT CONCRETE RETAINING WALL
- 836 LOCATION SHOWN FOR ABANDONED WATERLINE IS APPROXIMATE AND BASED ON AS-BUILT DATA. CONTRACTOR RESPONSIBLE FOR REMOVAL OF PIPE WHERE NECESSARY.

NOTES:
 • DO NOT INSTALL STEPS IN NEW MANHOLES.



REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ			DRAWN BY DJM DATE 09/2022
REVISION Δ			DESIGNED BY DJM DATE 09/2022
REVISION Δ			CHECKED BY IRT DATE 09/2022
REVISION Δ			APPROVED BY KH DATE 09/2022

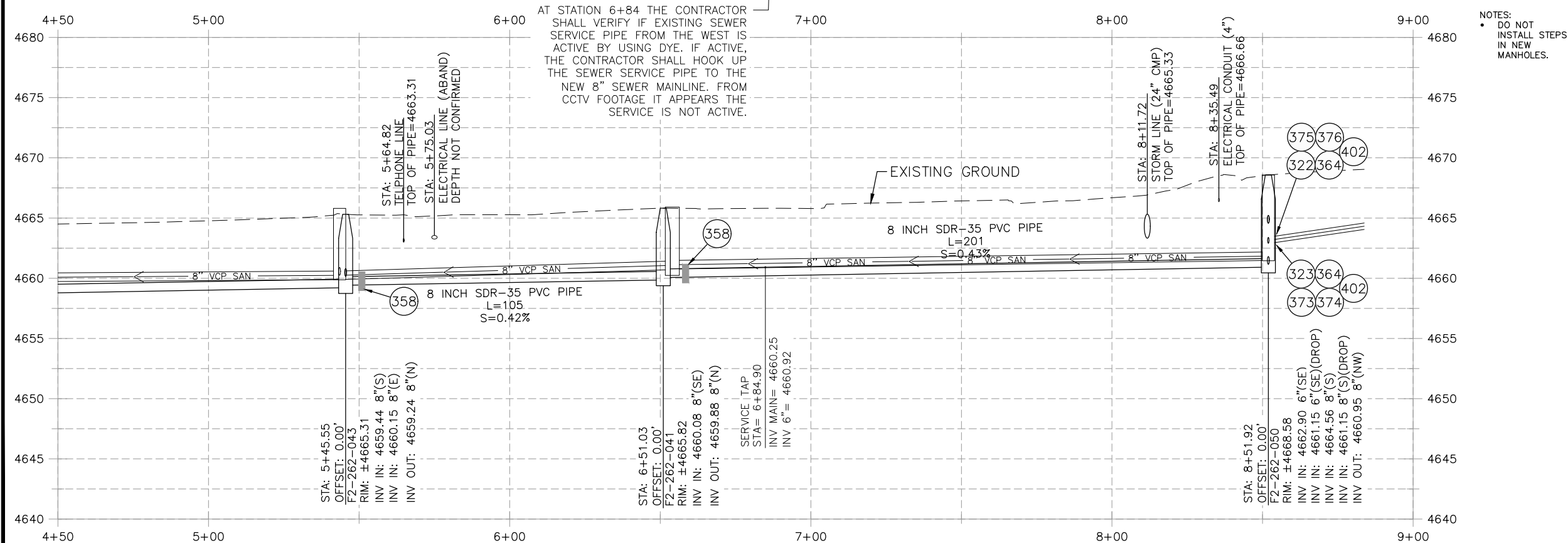
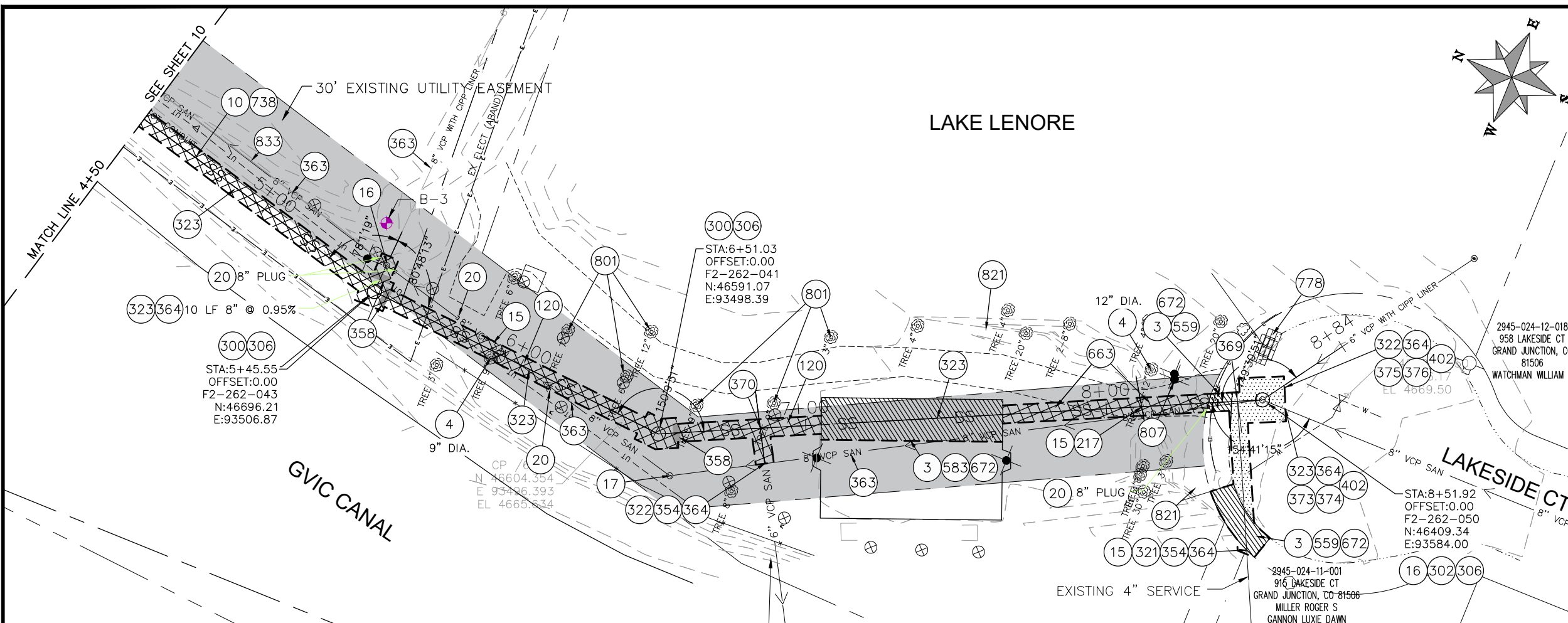


PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENTS
LAKESIDE SEWER PLAN & PROFILE
STA. 0+00 TO 4+50

CONSTRUCTION NOTES

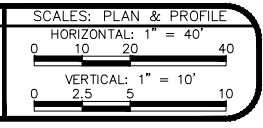
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
- 10 202 - REMOVAL OF LANDSCAPE GROUND COVER AND ANY UNDERLYING BARRIER.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE
- 17 202 - ABANDON MANHOLE (REMOVE CONE SECTION, RING, AND COVER, PLUG EXISTING SEWER PIPES AND FILL REMAINING BARREL SECTIONS WITH FLOW-FILL MATERIAL)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 103 210 - RESET SIGN
- 120 210 - RESET/REPAIR SPRINKLER IRRIGATION SYSTEM (IF NECESSARY)
- 217 102.10/108.2 - 24" STORM DRAIN PIPE (CMP). INCLUDES BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. PIPE IS NOT TO BE BEDDED IN TYPE A BEDDING MATERIAL.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 302 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY STD. DETAIL SS-04)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS. SEE CITY STD. DETAIL SS-07)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 369 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE CITY STD. DETAIL SS-06)
- 370 102.9/108.3 - 8" x 6" SEWER SERVICE TAP. FULL BODY WYE (SEE CITY STD. DETAIL SS-06)
- 373 102.9/108.3 - 8" 45° ELBOW (GXG)
- 374 102.9/108.3 - 8" x 8" WYE FITTING (FULL BODY WYE) (GXGXG)
- 375 102.9/108.3 - 6" 45° ELBOW (GXG)
- 376 102.9/108.3 - 6" x 6" WYE FITTING (FULL BODY WYE) (GXGXG)
- 402 206 - STRUCTURE BACKFILL (FLOW-FILL) (REQUIRED AROUND DROP MANHOLE PIPE PER CITY STD. DETAIL SS-04)
- 559 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (6.5-FT WIDE) (MATCH EXISTING)
- 583 608.06 - CONCRETE PAVEMENT (BASKETBALL COURT) (6" THICK)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 672 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (ONE 3" LIFT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 738 610 - GROUND COVER MATERIAL (MATCH EXISTING)
- 778 208 - STORM DRAIN INLET PROTECTION (SILT-SACK STYLE OR APPROVED EQUAL) (NO GRAVEL/ROCK BAG FILTERS ARE ALLOWED)
- 801 PROTECT TREE. LIMITED PRUNING AS NECESSARY
- 807 PROTECT SIGN
- 821 PROTECT BENCH
- 833 PROTECT CONCRETE RETAINING WALL



AT STATION 6+84 THE CONTRACTOR SHALL VERIFY IF EXISTING SEWER SERVICE PIPE FROM THE WEST IS ACTIVE BY USING DYE. IF ACTIVE, THE CONTRACTOR SHALL HOOK UP THE SEWER SERVICE PIPE TO THE NEW 8" SEWER MAINLINE. FROM CCTV FOOTAGE IT APPEARS THE SERVICE IS NOT ACTIVE.

NOTES:
• DO NOT INSTALL STEPS IN NEW MANHOLES.

REVISION	DESCRIPTION	DATE	PROJECT NO. F001642
REVISION Δ			DRAWN BY DJM DATE 09/2022
REVISION Δ			DESIGNED BY DJM DATE 09/2022
REVISION Δ			CHECKED BY TRT DATE 09/2022
REVISION Δ			APPROVED BY KH DATE 09/2022



PUBLIC WORKS
ENGINEERING DIVISION

2022 SEWER LINE REPLACEMENTS
LAKESIDE SEWER PLAN & PROFILE
STA 4+50 TO STA 8+52



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION Δ			DJM	09/2022
REVISION Δ			DJM	09/2022
REVISION Δ			TRT	09/2022
REVISION Δ			KH	09/2022

SCALES: PLAN & PROFILE	
HORIZONTAL: 1" = 100'	0 25 50 100
VERTICAL: 1" = 10'	



**PUBLIC WORKS
ENGINEERING DIVISION**

**2022 SEWER LINE REPLACEMENTS
LAKESIDE UTILITY EASEMENTS**