

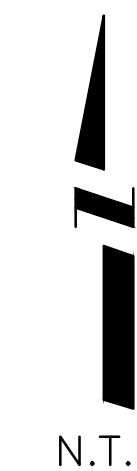
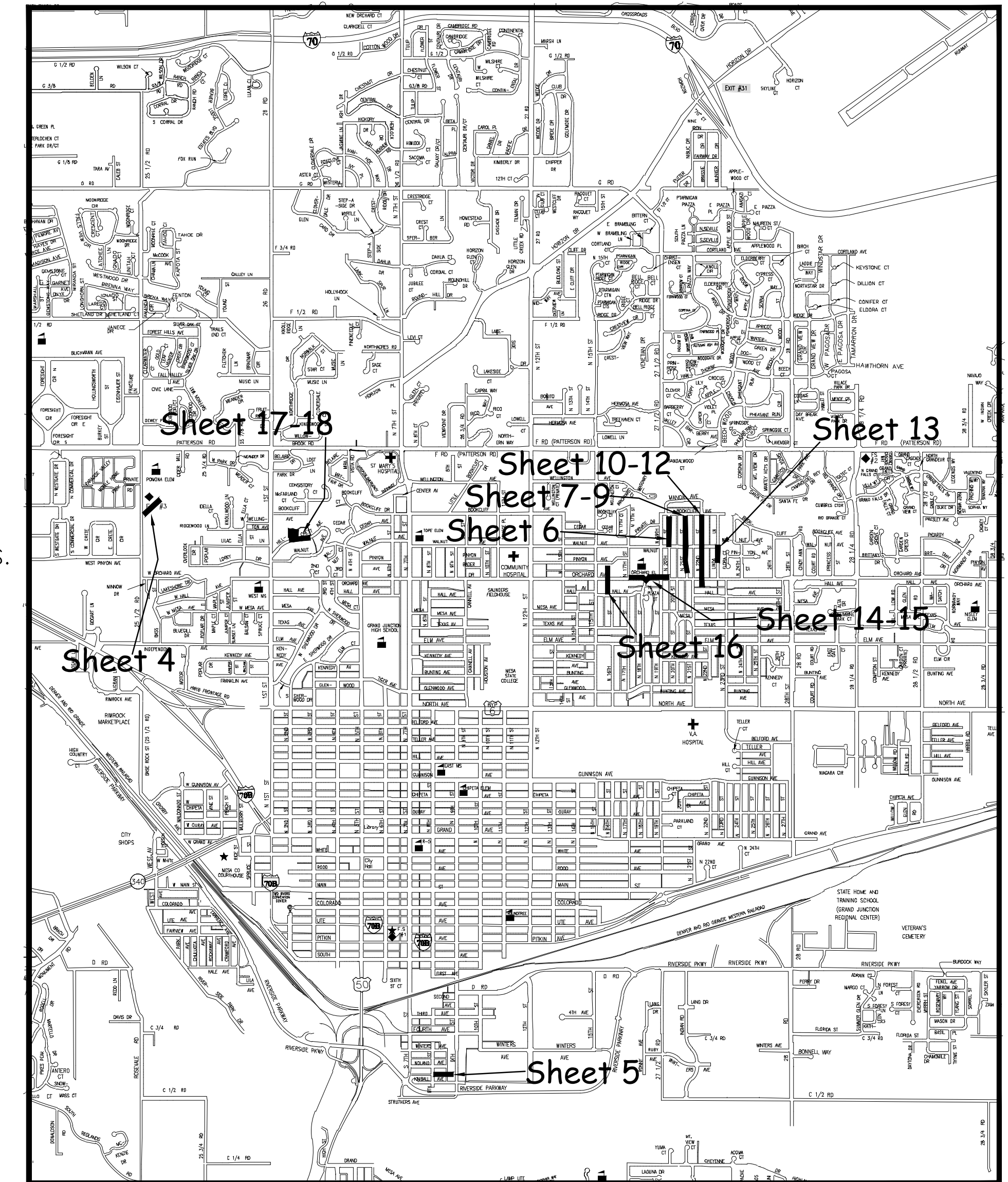
2011 SEWER LINE REPLACEMENTS APRIL, 2011

ASBUILT
FEBRUARY 2012

- 1 ————— Cover Sheet
- 2 ————— Standard Abbreviations, Legend, and Symbols
- 3 ————— Summary of Approximate Quantities
- 4-18 ————— Sanitary Sewer Line Plan and Profiles
- 19 ————— Project Control Map

(See Vicinity Map at right for Specific Locations)

VICINITY MAP



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JUSTIN VENSEL	PROJECT ENGINEER	PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4017	(970) 256-4022
GRAND JUNCTION, CITY OF	BRET GUILLORY	UTILITY ENGINEER	SANITARY SEWER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 244-1590	(970) 256-4022
GRAND VALLEY IRRIGATION CO.	PHIL BERTRAND		IRRIGATION	688 26 ROAD	688 26 ROAD	GRAND JCT., CO 81506	(970) 242-2762	
BRESNAN	CHUCK WEIDMAN	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
U.S. WEST/QWEST	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
GRAND JUNCTION, CITY OF	RON KEY		WATER	250 N. 5TH STREET	250 N. 5TH STREET	GRAND JCT., CO 81501	(970) 244-1572	(970) 244-1426
UTE WATER	DARYL MOORE	SUPERVISOR	WATER	PO BOX 460		GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	DAN STEINKIRCHNER	UNIT MANAGER	GAS, ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2661



*Public Works & Planning
Engineering Division*

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.

DESCRIPTION	DATE
REVISION Δ ADDENDUM #2	5/16/2011
REVISION Δ	
REVISION Δ	
REVISION Δ	

DRAWING STATUS:	
<input type="radio"/>	PROGRESS
<input checked="" type="radio"/>	FINAL CONSTRUCTION DRAWINGS
<input type="radio"/>	ASBUILT
DESIGNED BY:	
JUSTIN VENSEL, PROJECT ENGINEER	DATE
REVIEWED BY:	
BRET GUILLORY, UTILITY ENGINEER	DATE
AUTHORIZED FOR CONSTRUCTION	
TRENTON C. PRALL, CITY ENGINEER	DATE
ACCEPTED AS CONSTRUCTED	
JUSTIN VENSEL, PROJECT ENGINEER	DATE

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
CL	CENTER LINE
CL	CLEAR
CMP	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
DJ	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
E	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
PCC	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

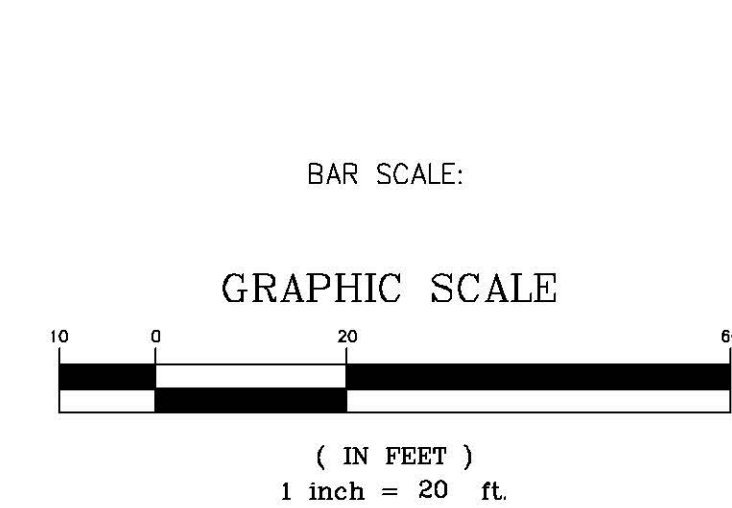
LEGEND

BSWMP	BSWMP
DRAINAGE BASIN BOUNDARY	
BSWMP	BSWMP
ANCHORED STRAW BALES	
BSWMP	BSWMP
SILT FENCE	
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 (WOOD)	
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)	

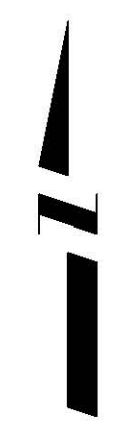
PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB,GUTTER,& SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS 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 (SANITARY SEWER SERVICE)	
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 (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	

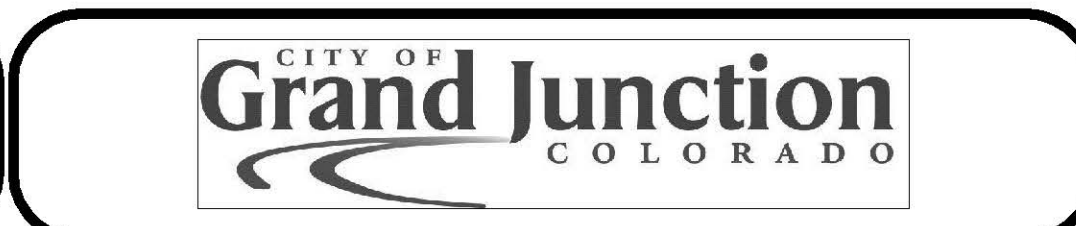


NORTH ARROW:



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REVISION Δ		JCS	4-02
DESIGNED BY	DATE	CHECKED BY	DATE
APPROVED BY	DATE		

SCALE
PLAN
HORIZ. 1"=20'
VERT.



PUBLIC WORKS AND PLANNING ENGINEERING DIVISION

CITY OF GRAND JUNCTION STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS SHEET

(See Project Specifications)

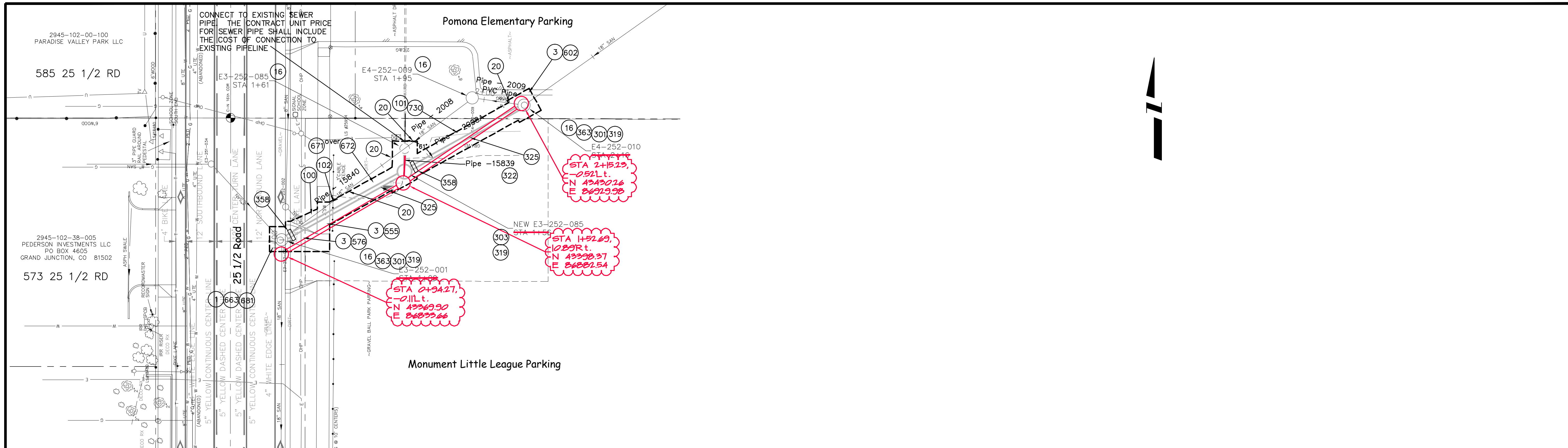
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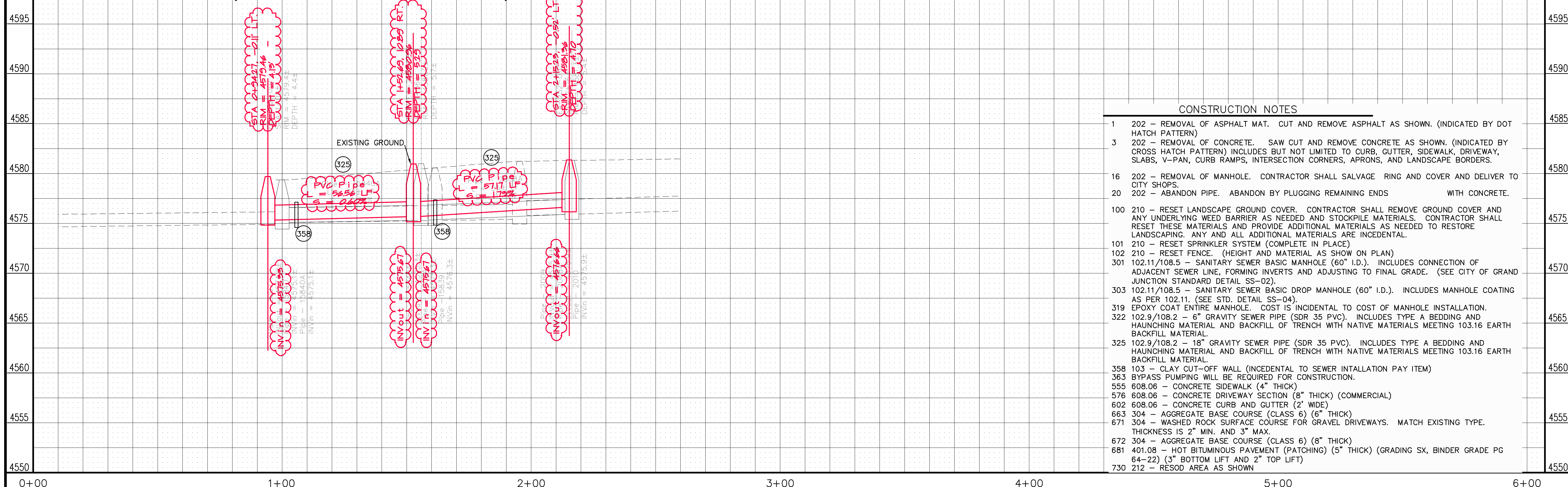


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2011 SEWER LINE REPLACEMENTS
SUMMARY OF APPROXIMATE QUANTITIES



Horizon Dr Interceptor S of Pomona Elementary at 25 1/2 Rd



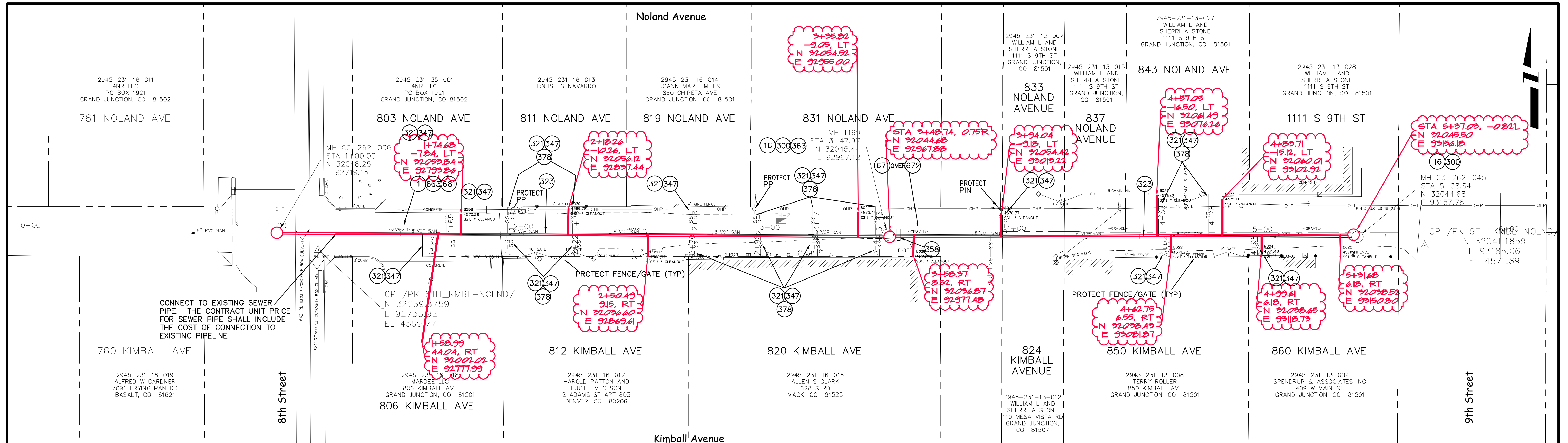
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3				
4				

SCALE:
PLAN 0 10 20
PROFILE 0 5 10 20 VERTICAL 2:1

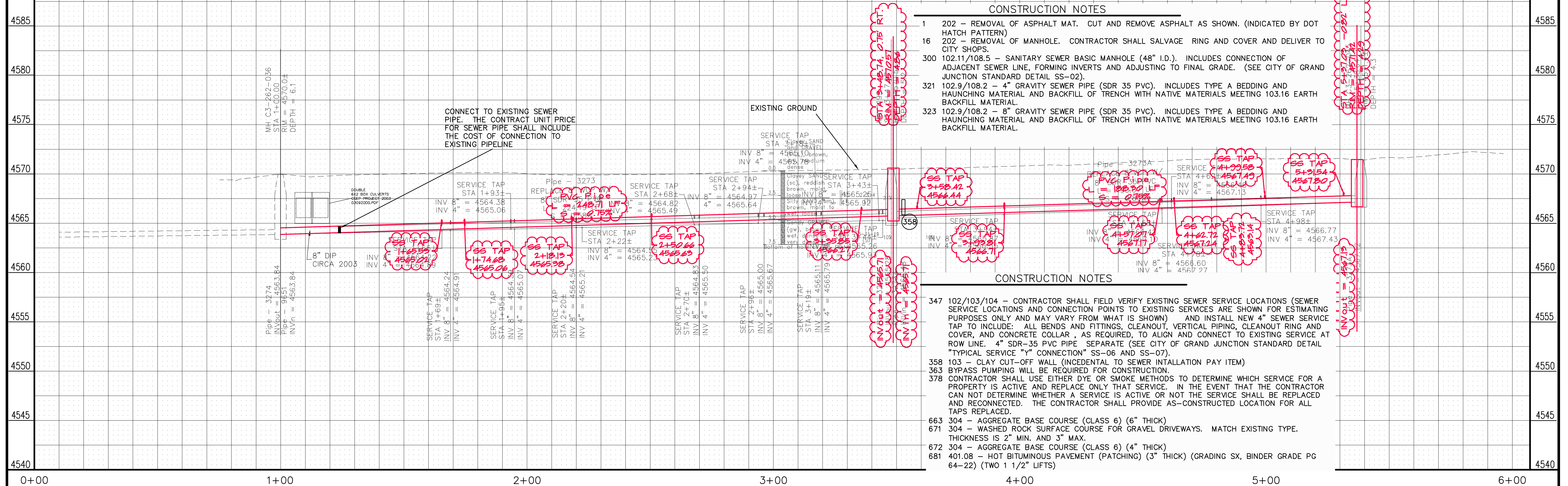


PUBLIC WORKS
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ENGINEERING DIVISION

2011 Sewer Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
Horizon Dr Interceptor S of Pomona Elementary at 25 1/2 Rd



SEWER LINE NORTH OF KIMBALL AVE, SOUTH OF NOLAND, BETWEEN 8TH AND 9TH ST

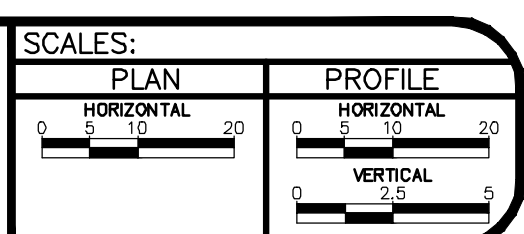


- CONSTRUCTION NOTES**
- 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 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.
 - 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.

- CONSTRUCTION NOTES**
- 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP TO INCLUDE: ALL BENDS AND FITTINGS, CLEANOUT, VERTICAL PIPING, CLEANOUT RING AND COVER, AND CONCRETE COLLAR, AS REQUIRED, TO ALIGN AND CONNECT TO EXISTING SERVICE AT ROW LINE. 4" SDR-35 PVC PIPE. SEPARATE (SEE CITY OF GRAND JUNCTION STANDARD DETAIL "TYPICAL SERVICE "Y" CONNECTION" SS-06 AND SS-07).
 - 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
 - CONTRACTOR SHALL USE EITHER DYE OR SMOKE METHODS TO DETERMINE WHICH SERVICE FOR A PROPERTY IS ACTIVE AND REPLACE ONLY THAT SERVICE. IN THE EVENT THAT THE CONTRACTOR CAN NOT DETERMINE WHETHER A SERVICE IS ACTIVE OR NOT THE SERVICE SHALL BE REPLACED AND RECONNECTED. THE CONTRACTOR SHALL PROVIDE AS-CONSTRUCTED LOCATION FOR ALL TAPS REPLACED.
 - 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
 - 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK)
 - 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

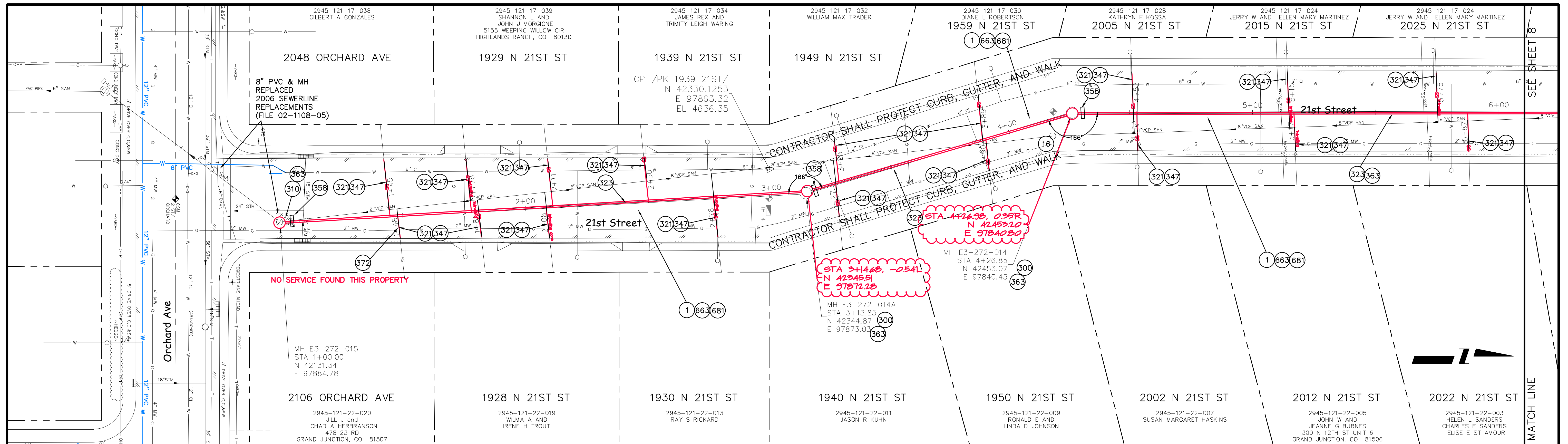
REVISION	DESCRIPTION	DATE
REVISION Δ	ASBUILT FROM DP SURVEY NOTES	2-2-2012
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DRAWN BY	JCS	DATE	2011
DESIGNED BY		DATE	
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APPROVED BY		DATE	



**PUBLIC WORKS
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ENGINEERING DIVISION**

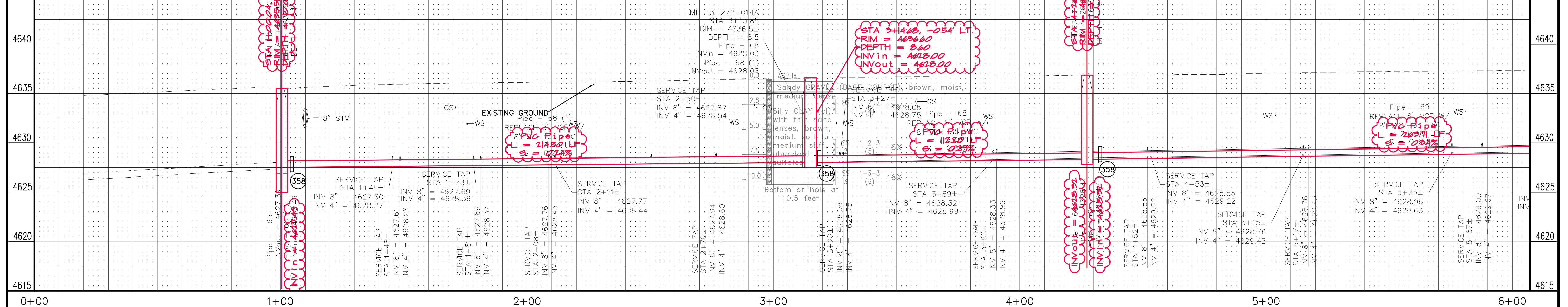
**2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
from 9th St to 8th St N of Kimball Ave. S of Noland Ave.**



SEWER LINE FROM 100' S of Walnut to Orchard Ave in 21st Street

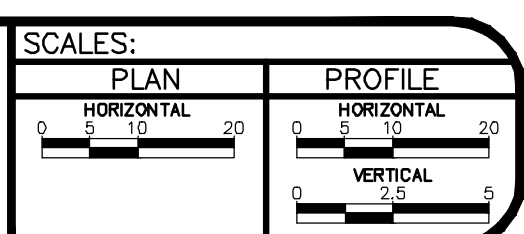
CONSTRUCTION NOTES

- 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.
- 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).
- 310 102.11/108.5 - CONNECT TO EXISTING MANHOLE (6" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 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.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 372 SEWER SERVICE LOCATION NOT FOUND USING CLOSED CAPTION TELEVISION. IF FIELD STUDIES FIND THAT SEWER SERVICE IS TAPPED INTO A NEIGHBORING PROPERTIES SERVICE, CONTRACTOR SHALL INSTALL A NEW SEWER SERVICE TO THE RIGHT OF WAY LINE IN THE EVENT THAT THE CURRENT SERVICE FAILS AT SOME POINT IN THE FUTURE. SERVICE LOCATION SHOWN ON PLANS IS AN ESTIMATION OF WHERE THE ACTUAL LOCATION MAY BE.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



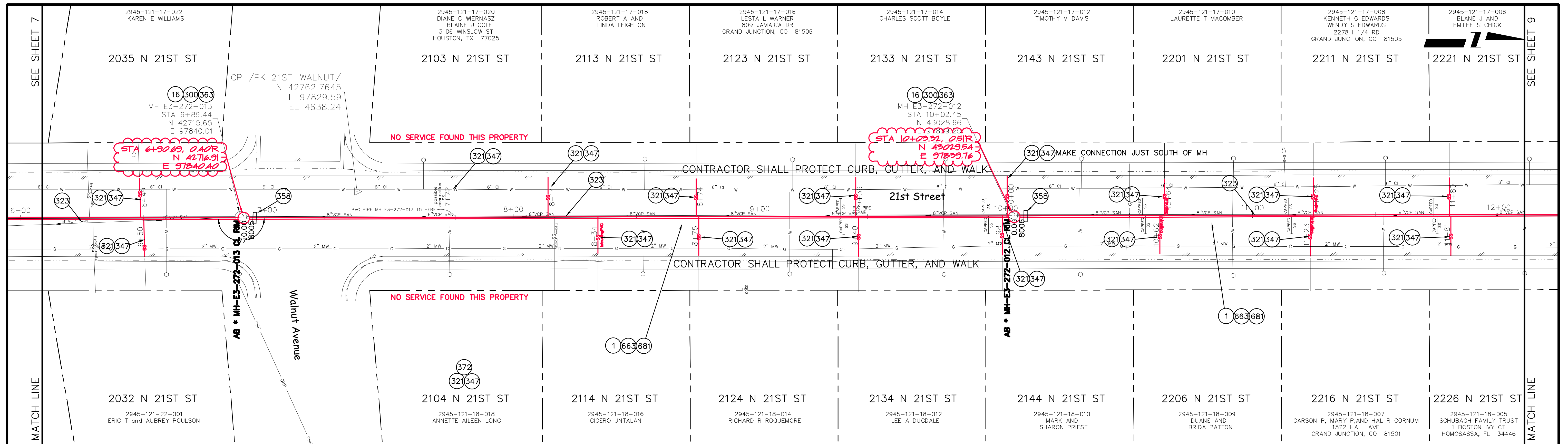
REVISION	DESCRIPTION	DATE
REVISION Δ	ASBUILT FROM PH SURVEY NOTES	2-2012
REVISION Δ		
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REVISION Δ		

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CHECKED BY		DATE	
APPROVED BY		DATE	



**PUBLIC WORKS
AND PLANNING
ENGINEERING DIVISION**

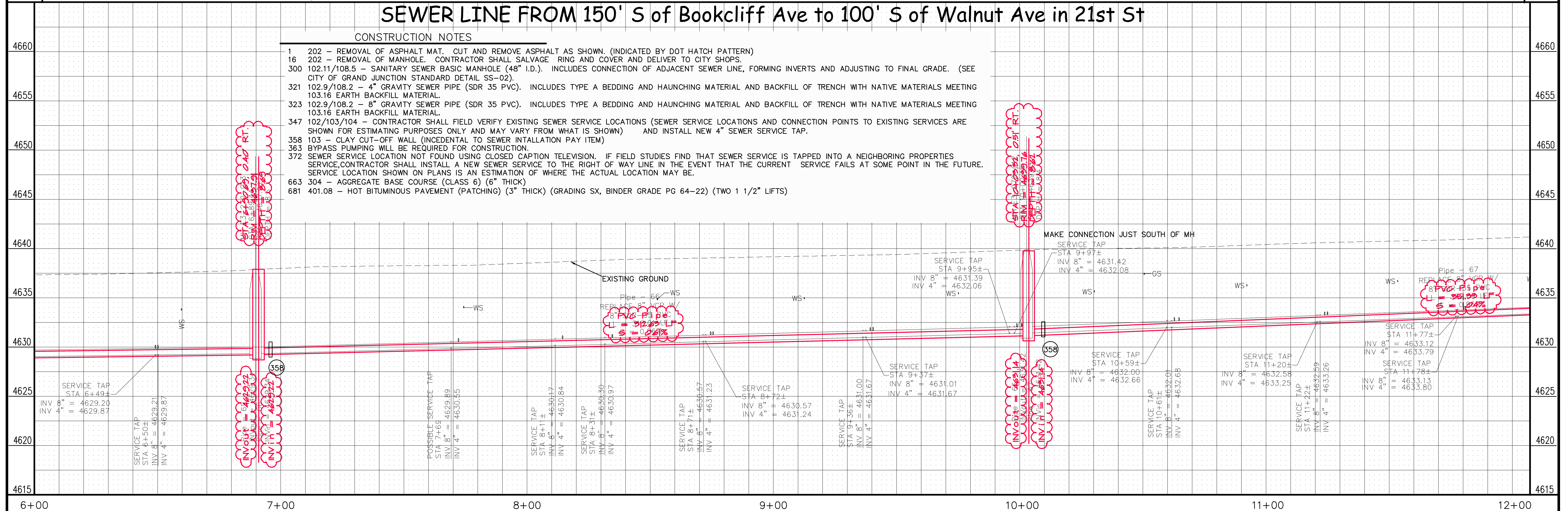
**2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
from 100' S of Walnut to Orchard Ave in 21st Street**



SEWER LINE FROM 150' S of Bookcliff Ave to 100' S of Walnut Ave in 21st St

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.
- 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).
- 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.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 372 SEWER SERVICE LOCATION NOT FOUND USING CLOSED CAPTION TELEVISION. IF FIELD STUDIES FIND THAT SEWER SERVICE IS TAPPED INTO A NEIGHBORING PROPERTIES SERVICE, CONTRACTOR SHALL INSTALL A NEW SEWER SERVICE TO THE RIGHT OF WAY LINE IN THE EVENT THAT THE CURRENT SERVICE FAILS AT SOME POINT IN THE FUTURE. SERVICE LOCATION SHOWN ON PLANS IS AN ESTIMATION OF WHERE THE ACTUAL LOCATION MAY BE.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



REVISION	DESCRIPTION	DATE
REVISION Δ	ASBUILT FROM DH SURVEY NOTES	2-2-2012
REVISION Δ		
REVISION Δ		
REVISION Δ		

DRAWN BY	JCS	DATE	2011
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

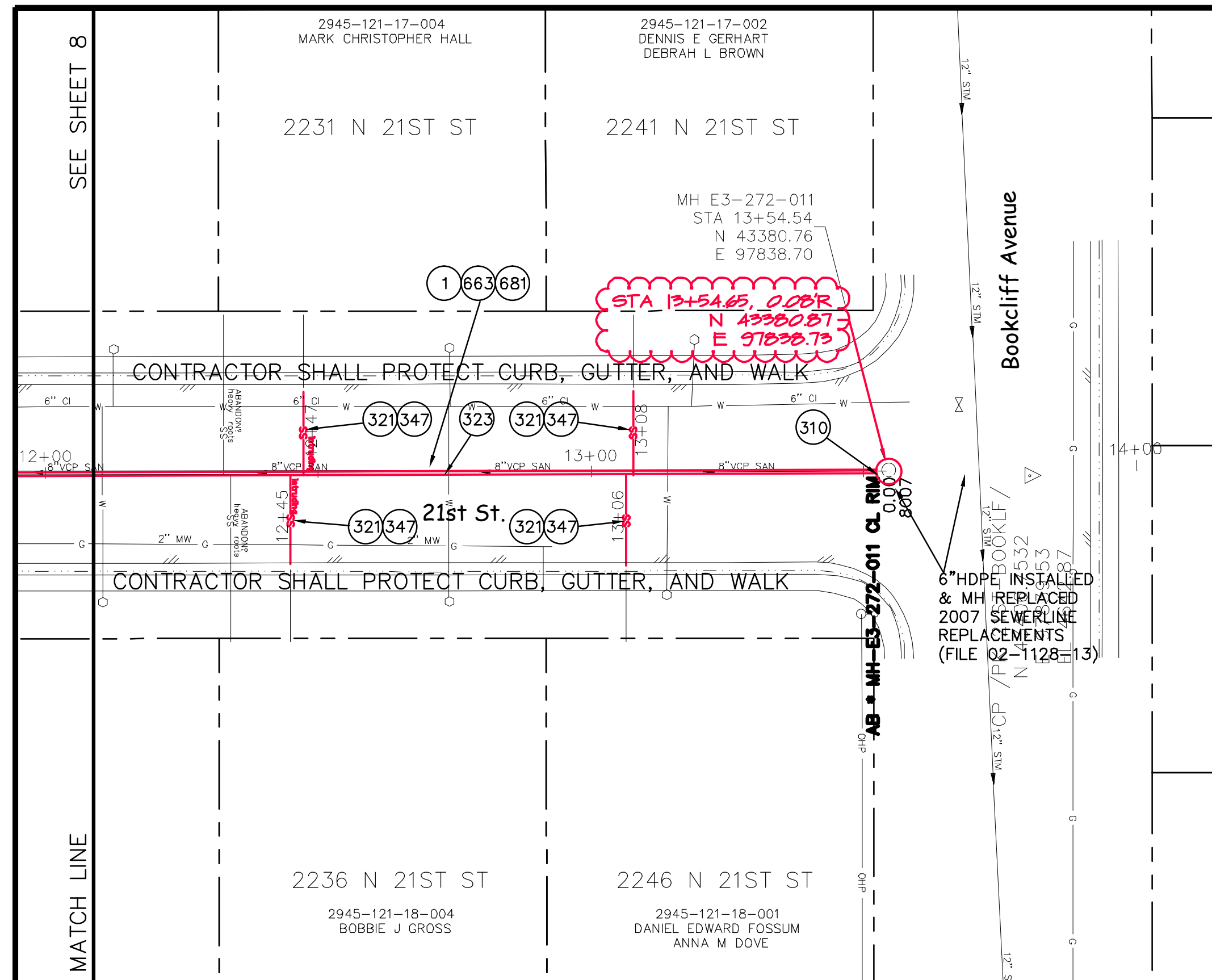
SCALES:

PLAN	HORIZONTAL	1" = 20'
PROFILE	HORIZONTAL	1" = 20'
	VERTICAL	1" = 2'

CITY OF Grand Junction COLORADO

PUBLIC WORKS AND PLANNING ENGINEERING DIVISION

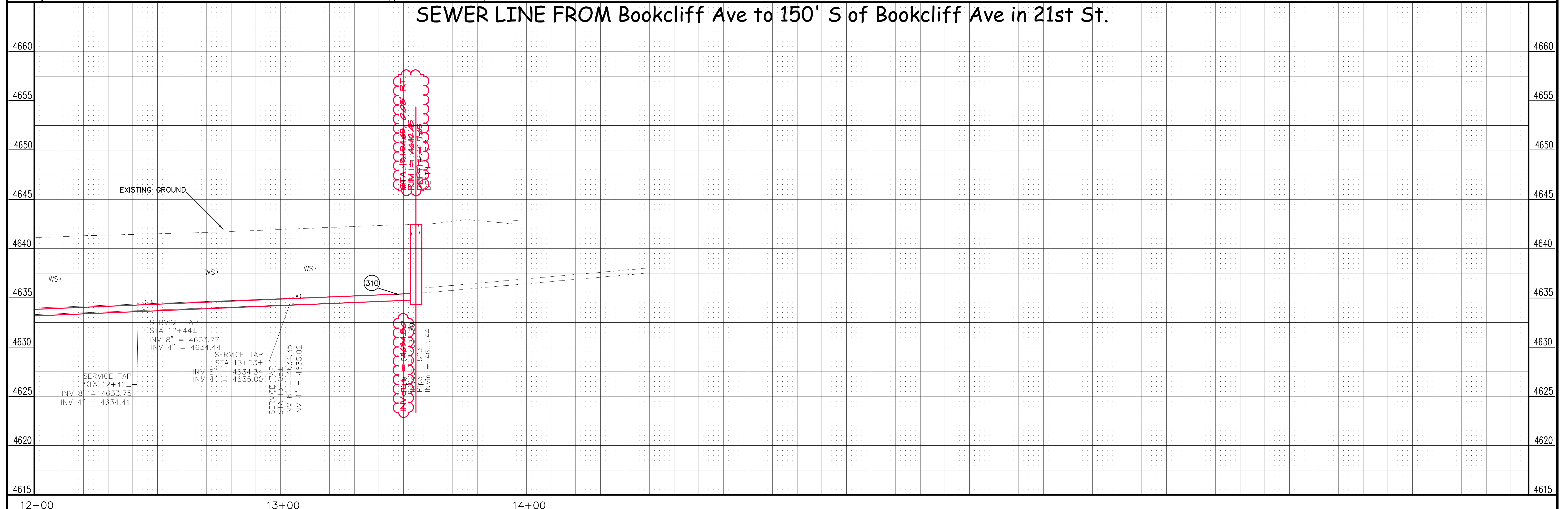
2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
 from 150' S of Bookcliff Ave to 100' S of Walnut Ave in 21st



CONSTRUCTION NOTES

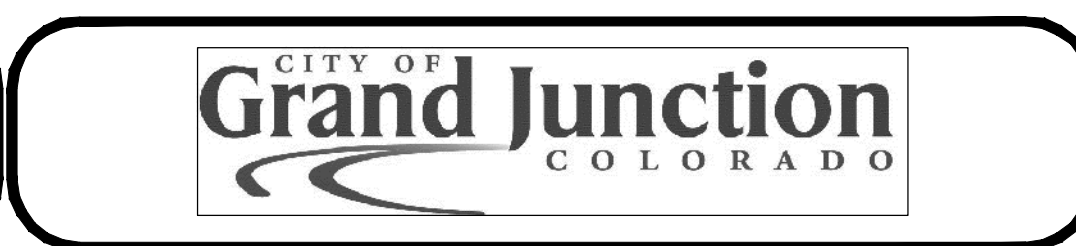
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 310 102.11/108.5 - CONNECT TO EXISTING MANHOLE (6"PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

SEWER LINE FROM Bookcliff Ave to 150' S of Bookcliff Ave in 21st St.



REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2011
REVISION	ASBUILT FROM DH SURVEY NOTES	2-2-2011	DESIGNED BY		DATE	
REVISION			CHECKED BY		DATE	
REVISION			APPROVED BY		DATE	

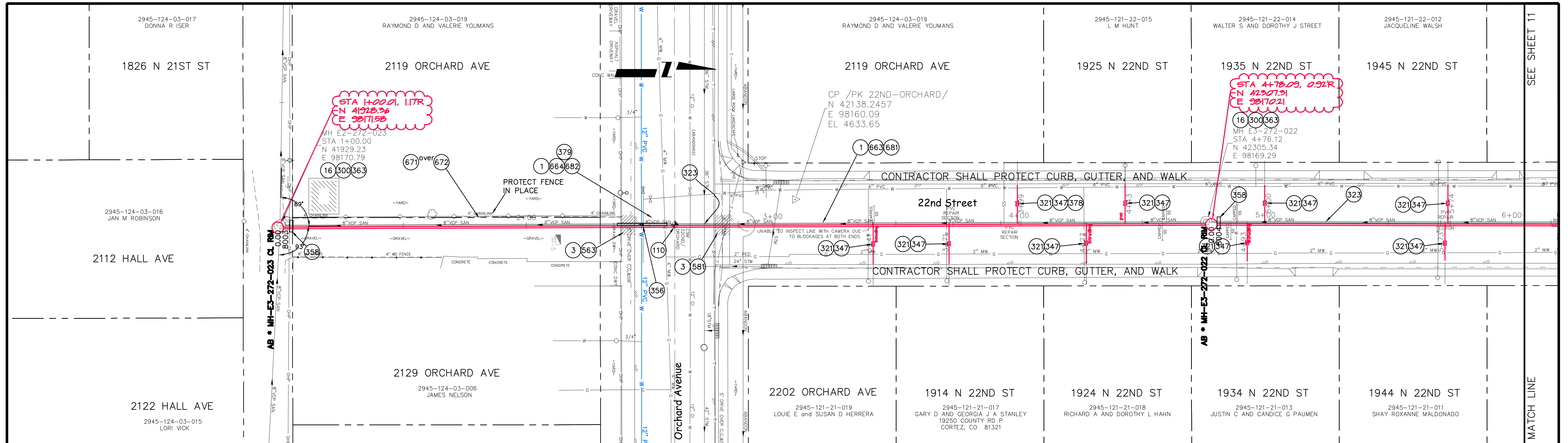
SCALES:	
PLAN	PROFILE
HORIZONTAL	HORIZONTAL
0 5 10 20	0 5 10 20
	VERTICAL
	0 2 4



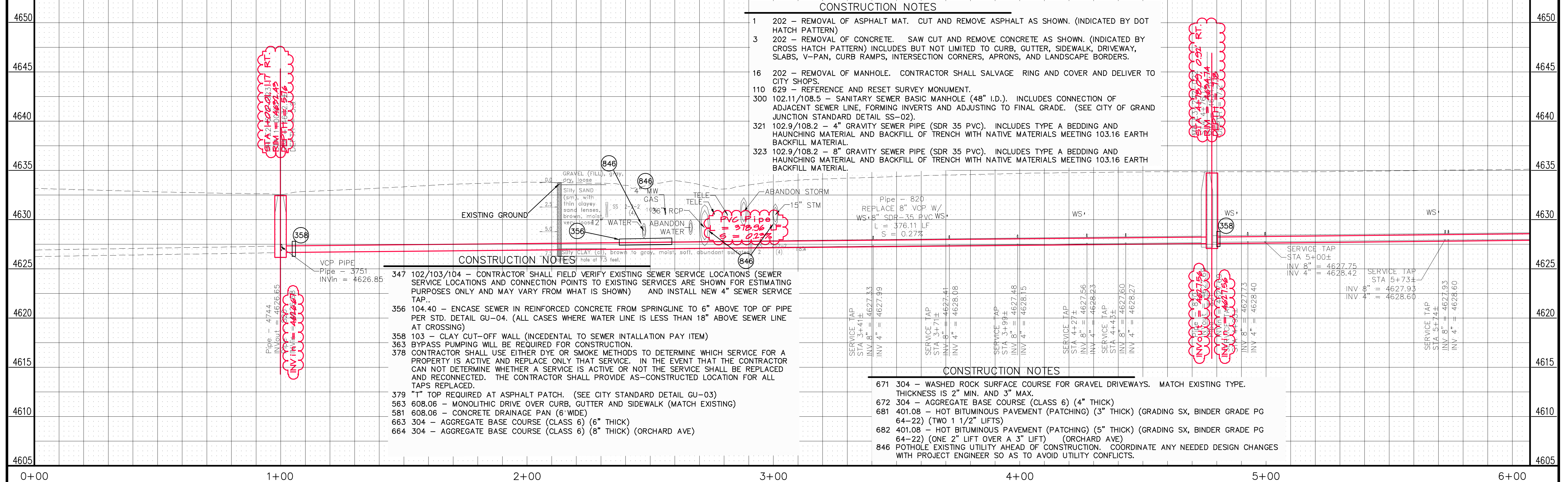
**PUBLIC WORKS
AND PLANNING
ENGINEERING DIVISION**

**2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
from Bookcliff Ave to 150' S of Bookcliff Ave in 21st St**

N:\LandProj\Justin - 2011 Sewer Line Replacements - F001612base 2011 sew replacements.dwg, 09_22/2012 10:01:31 AM, ANSI full bleed D (22.00 x 34.00 inches), 1:1



SEWER LINE FROM MH 200' N of Orchard to alley S of Orchard in 22nd Street



CONSTRUCTION NOTES

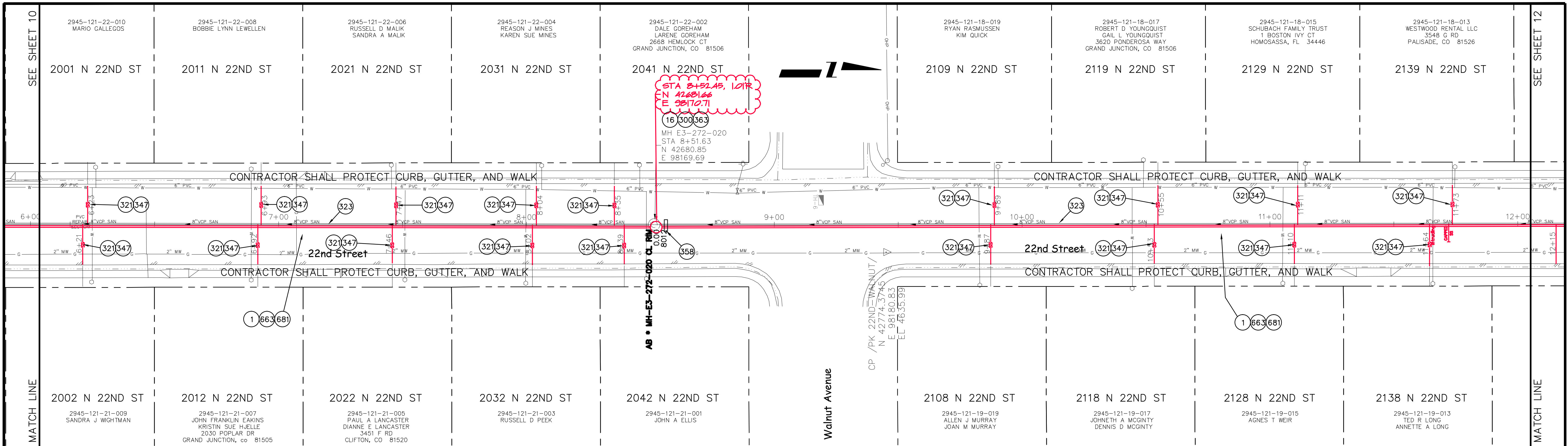
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 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).
- 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.
- 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.

CONSTRUCTION NOTES

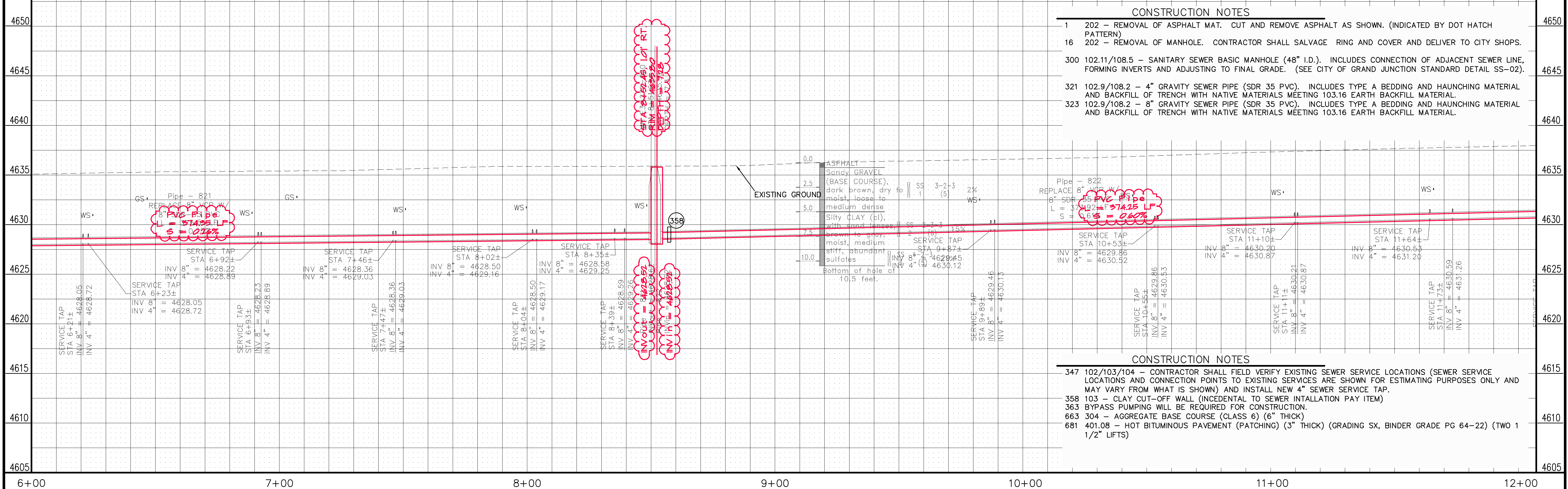
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
- 356 104.40 - ENCASE SEWER IN REINFORCED CONCRETE FROM SPRINGLINE TO 6" ABOVE TOP OF PIPE PER STD. DETAIL GU-04. (ALL CASES WHERE WATER LINE IS LESS THAN 18" ABOVE SEWER LINE AT CROSSING)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 378 CONTRACTOR SHALL USE EITHER DYE OR SMOKE METHODS TO DETERMINE WHICH SERVICE FOR A PROPERTY IS ACTIVE AND REPLACE ONLY THAT SERVICE. IN THE EVENT THAT THE CONTRACTOR CAN NOT DETERMINE WHETHER A SERVICE IS ACTIVE OR NOT THE SERVICE SHALL BE REPLACED AND RECONNECTED. THE CONTRACTOR SHALL PROVIDE AS-CONSTRUCTED LOCATION FOR ALL TAPS REPLACED.
- 379 "T" TOP REQUIRED AT ASPHALT PATCH. (SEE CITY STANDARD DETAIL GU-03)
- 563 608.06 - MONOLITHIC DRIVE OVER CURB, GUTTER AND SIDEWALK (MATCH EXISTING)
- 581 608.06 - CONCRETE DRAINAGE PAN (6" WIDE)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK) (ORCHARD AVE)

CONSTRUCTION NOTES

- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 672 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 682 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22) (ONE 2" LIFT OVER A 3" LIFT) (ORCHARD AVE)
- 846 POT HOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. COORDINATE ANY NEEDED DESIGN CHANGES WITH PROJECT ENGINEER SO AS TO AVOID UTILITY CONFLICTS.



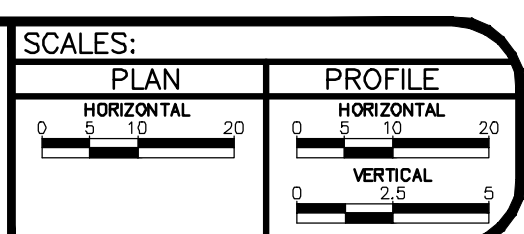
SEWER LINE from 300' N of Walnut to 300' N of Orchard in 22nd Street



- 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.
 - 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).
 - 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.
 - 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.

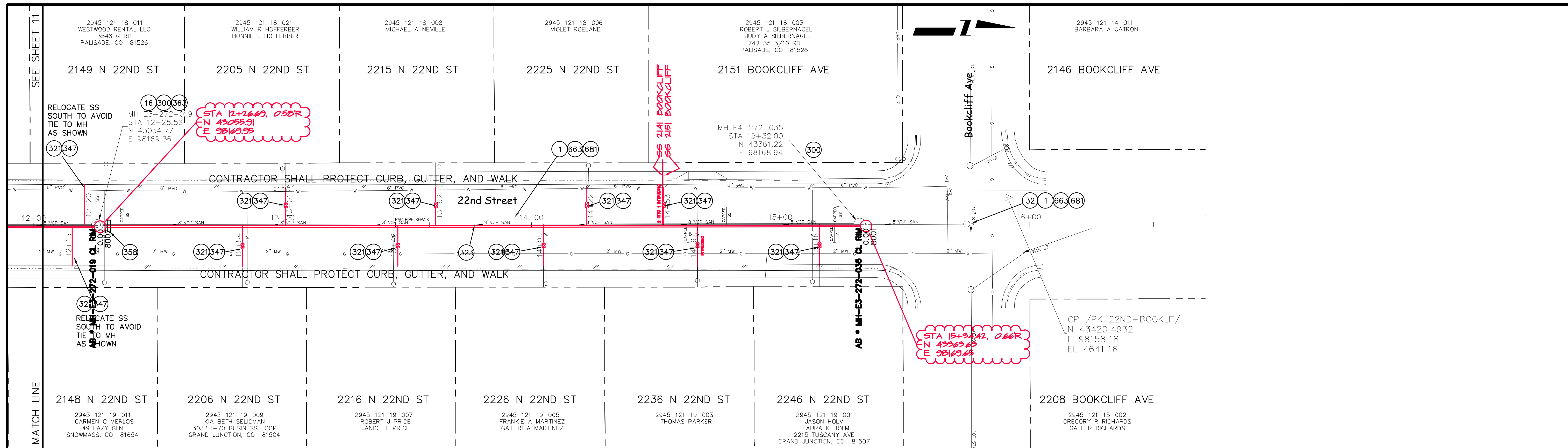
- CONSTRUCTION NOTES**
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
 - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

REVISION	DESCRIPTION	DATE	DRAWN BY	JCS	DATE	2011
REVISION Δ	ASBUILT FROM DH SURVEY NOTES	-2-2012				
REVISION Δ						
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REVISION Δ						

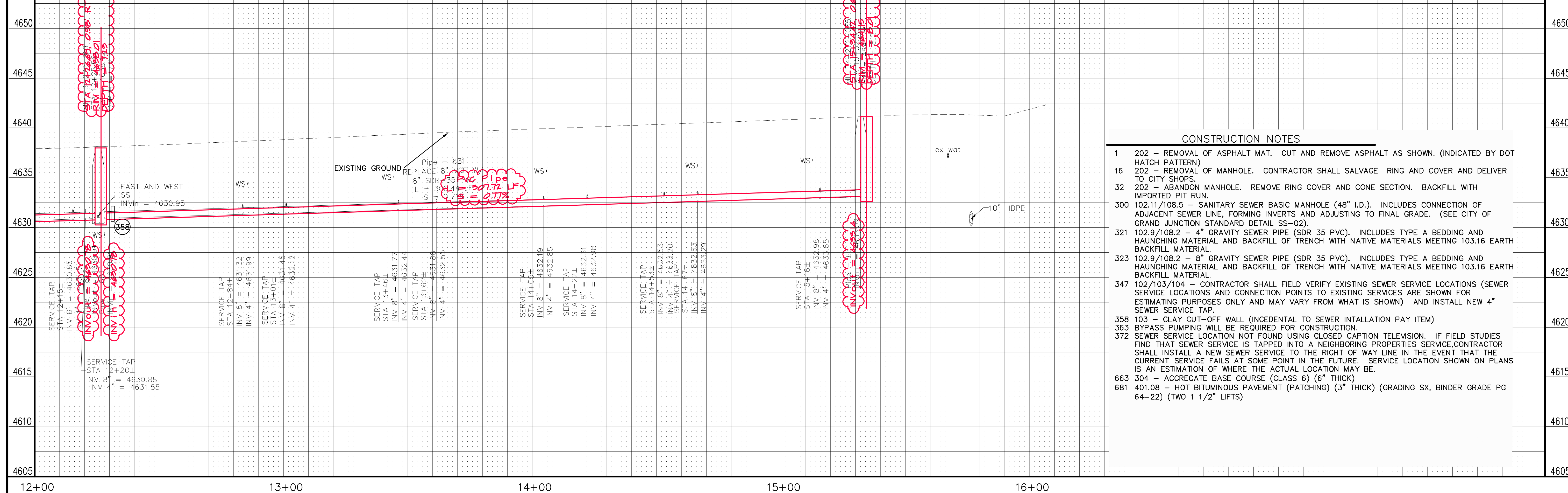


**PUBLIC WORKS
AND PLANNING
ENGINEERING DIVISION**

**2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
from 300' N of Walnut to 300' N of Orchard in 22nd Street**



SEWER LINE from Bookcliff Ave to 300' N of Walnut in 22nd Street



- 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.
 - 32 202 - ABANDON MANHOLE. REMOVE RING COVER AND CONE SECTION. BACKFILL WITH IMPORTED PIT RUN.
 - 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).
 - 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.
 - 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.
 - 347 102.103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.
 - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
 - 372 SEWER SERVICE LOCATION NOT FOUND USING CLOSED CAPTION TELEVISION. IF FIELD STUDIES FIND THAT SEWER SERVICE IS TAPPED INTO A NEIGHBORING PROPERTIES SERVICE, CONTRACTOR SHALL INSTALL A NEW SEWER SERVICE TO THE RIGHT OF WAY LINE IN THE EVENT THAT THE CURRENT SERVICE FAILS AT SOME POINT IN THE FUTURE. SERVICE LOCATION SHOWN ON PLANS IS AN ESTIMATION OF WHERE THE ACTUAL LOCATION MAY BE.
 - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
 - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

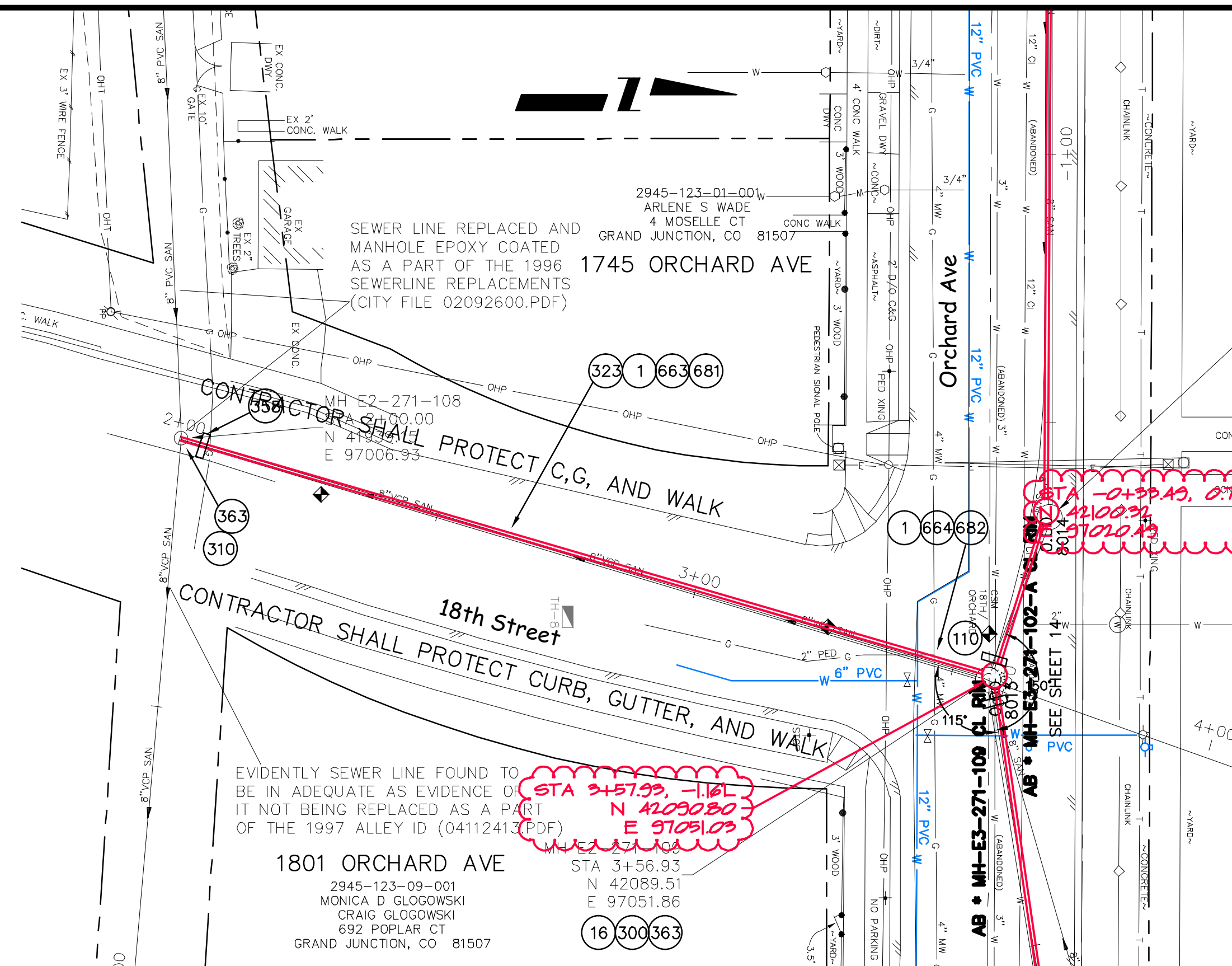
REVISION Δ ASBUILT FROM DH SURVEY NOTES - 2-2-2012 REVISION Δ _____ REVISION Δ _____ REVISION Δ _____	DRAWN BY JCS DATE 2011 DESIGNED BY _____ DATE _____ CHECKED BY _____ DATE _____ APPROVED BY _____ DATE _____	SCALES: PLAN: 1" = 20' PROFILE: HORIZONTAL 1" = 20', VERTICAL 1" = 2'		PUBLIC WORKS AND PLANNING ENGINEERING DIVISION	12
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2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
 from Bookcliff Ave to 300' N of Walnut in 22nd Street

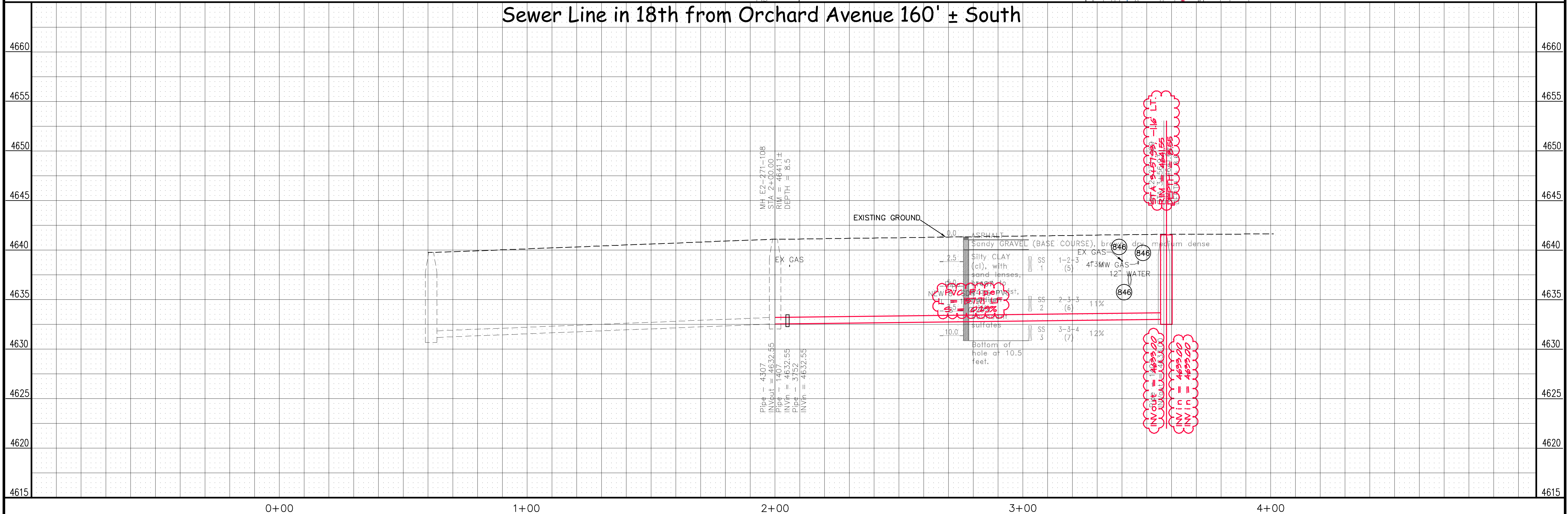
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CONSTRUCTION NOTES

- 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.
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 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).
- 310 102.11/108.5 - CONNECT TO EXISTING MANHOLE (6" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 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 WILL BE REQUIRED FOR CONSTRUCTION.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK) (ORCHARD AVE)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 682 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22) (ONE 2" LIFT OVER A 3" LIFT) (ORCHARD AVE)
- 846 POT HOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. COORDINATE ANY NEEDED DESIGN CHANGES WITH PROJECT ENGINEER SO AS TO AVOID UTILITY CONFLICTS.

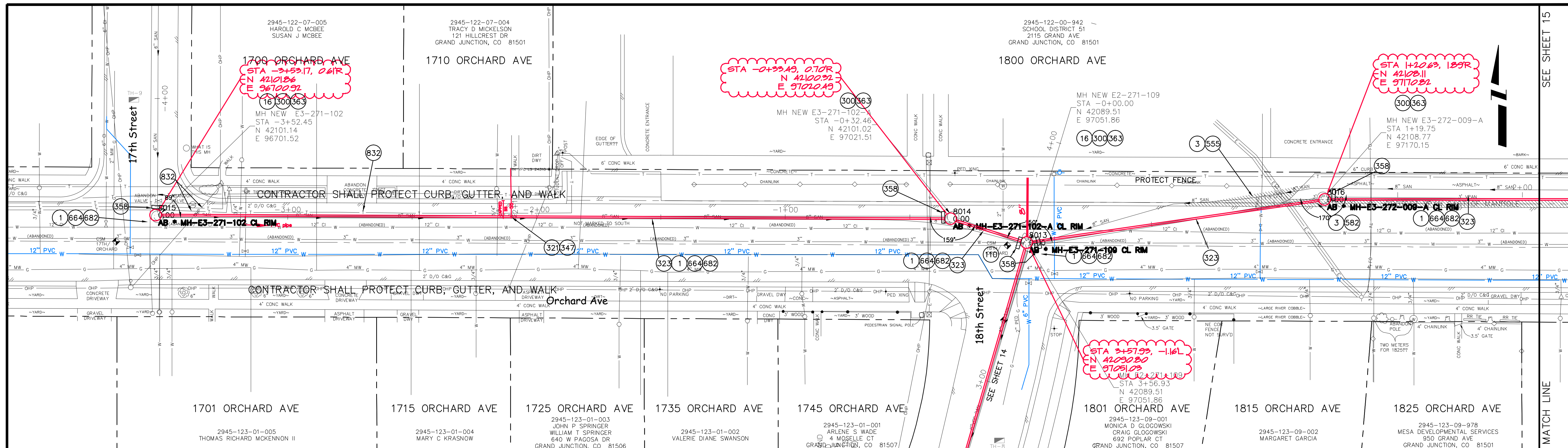


Sewer Line in 18th from Orchard Avenue 160' ± South



REVISION Δ ASBUILT FROM PH SURVEY NOTES 2-2012 REVISION Δ REVISION Δ REVISION Δ	DATE 2-2012 DATE DATE DATE	DRAWN BY JCS DESIGNED BY CHECKED BY APPROVED BY	DATE 2011 DATE DATE DATE	SCALES: PLAN 1" = 20' PROFILE 1" = 10' VERTICAL 1" = 2'		PUBLIC WORKS AND PLANNING ENGINEERING DIVISION	2011 Sewer Line Replacements SANITARY SEWER LINE PLAN AND PROFILE in 18th from Orchard Avenue 160' ± South	14
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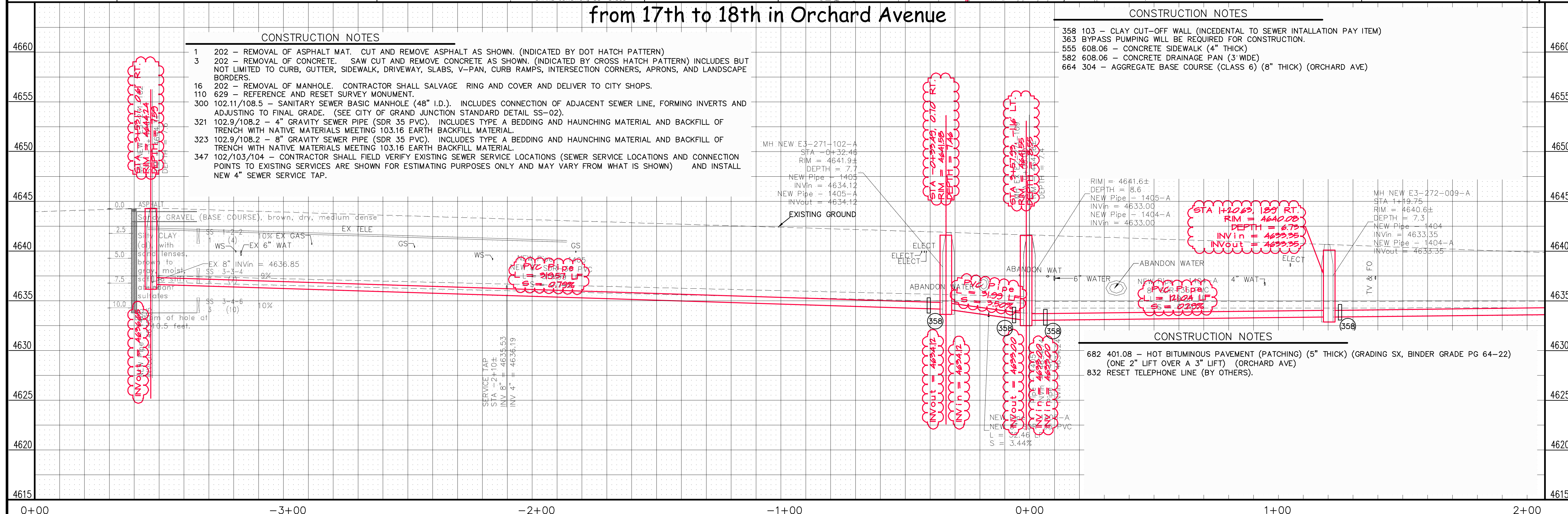
from 17th to 18th in Orchard Avenue

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.
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 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).
- 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.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP.

CONSTRUCTION NOTES

- 358 103 - CLAY CUT-OFF WALL (INCEDENTAL TO SEWER INTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 582 608.06 - CONCRETE DRAINAGE PAN (3" WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK) (ORCHARD AVE)



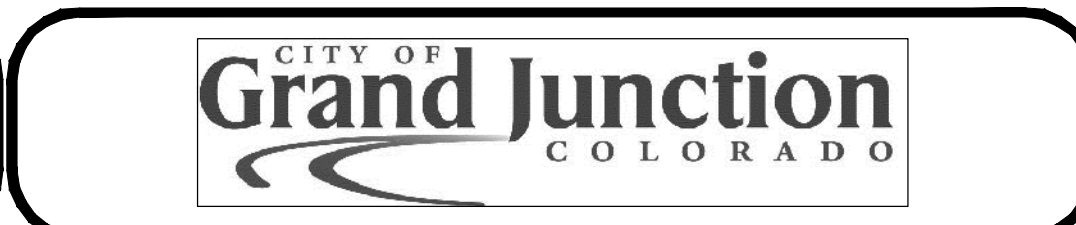
CONSTRUCTION NOTES

- 682 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22) (ONE 2" LIFT OVER A 3" LIFT) (ORCHARD AVE)
- 832 RESET TELEPHONE LINE (BY OTHERS).

REVISION	DESCRIPTION	DATE
REVISION Δ	ASBUILT FROM PH SURVEY NOTES	2-2012
REVISION Δ		
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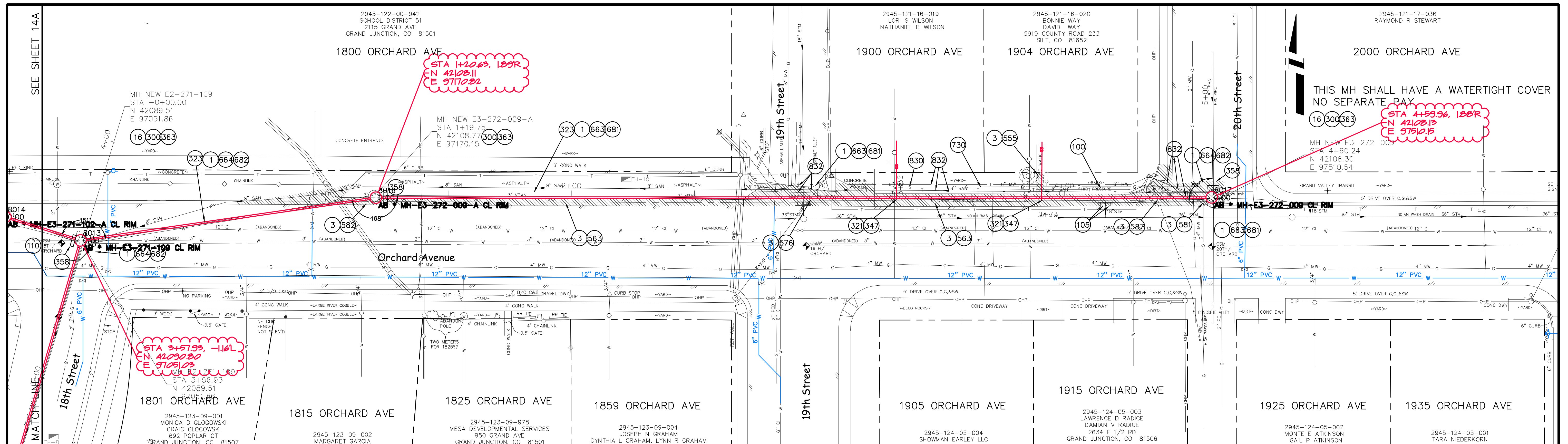
DRAWN BY	JCS	DATE	2011
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SCALES:	
PLAN	PROFILE
HORIZONTAL	HORIZONTAL
VERTICAL	VERTICAL



PUBLIC WORKS
AND PLANNING
ENGINEERING DIVISION

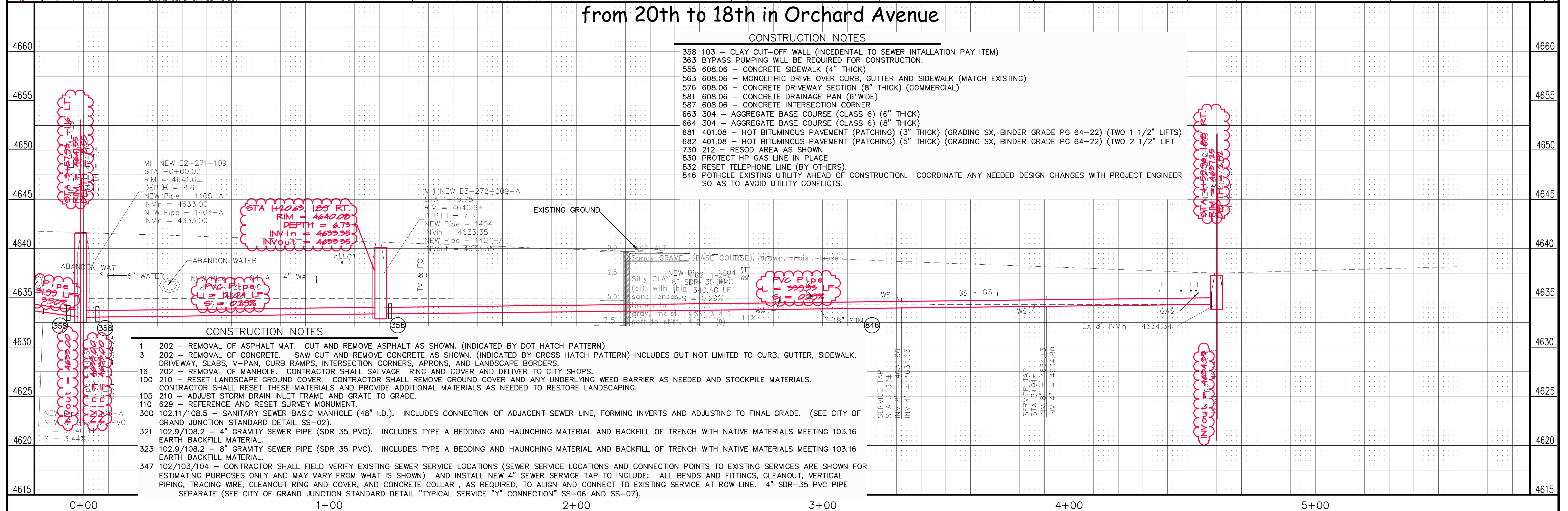
2011 Sewer Line Replacements
SANITARY SEWER LINE PLAN AND PROFILE
from 17th to 18th in Orchard Avenue



from 20th to 18th in Orchard Avenue

CONSTRUCTION NOTES

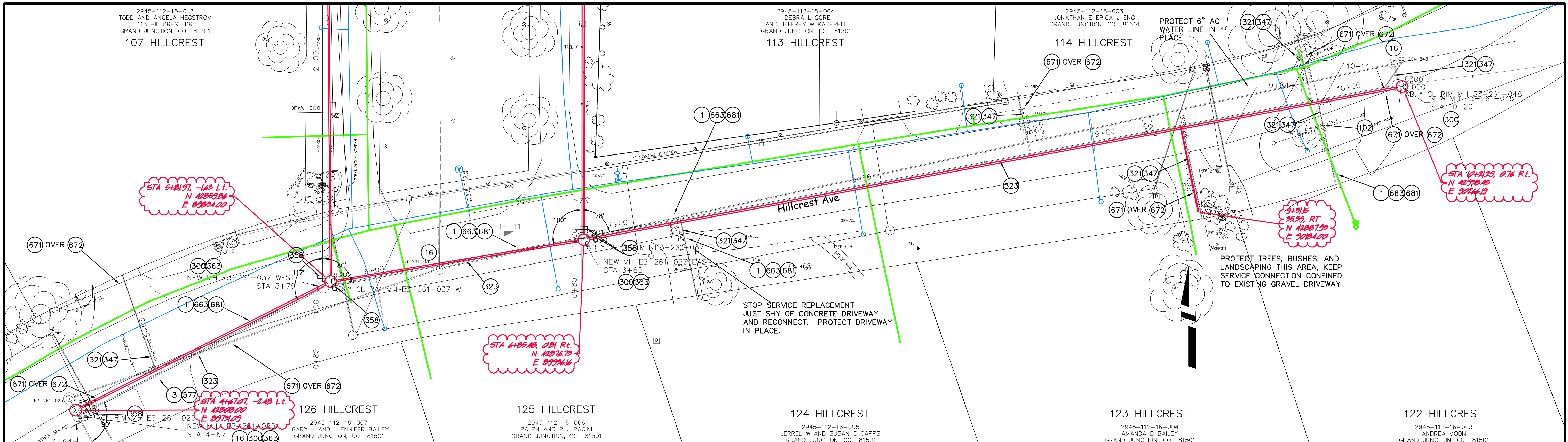
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 563 608.06 - MONOLITHIC DRIVE OVER CURB, GUTTER AND SIDEWALK (MATCH EXISTING)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (8" THICK) (COMMERCIAL)
- 581 608.06 - CONCRETE DRAINAGE PAN (6" WIDE)
- 587 608.06 - CONCRETE INTERSECTION CORNER
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 682 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2 1/2" LIFT
- 730 212 - RESOD AREA AS SHOWN
- 830 PROTECT HP GAS LINE IN PLACE
- 832 RESET TELEPHONE LINE (BY OTHERS).
- 846 POTHOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. COORDINATE ANY NEEDED DESIGN CHANGES WITH PROJECT ENGINEER SO AS TO AVOID UTILITY CONFLICTS.



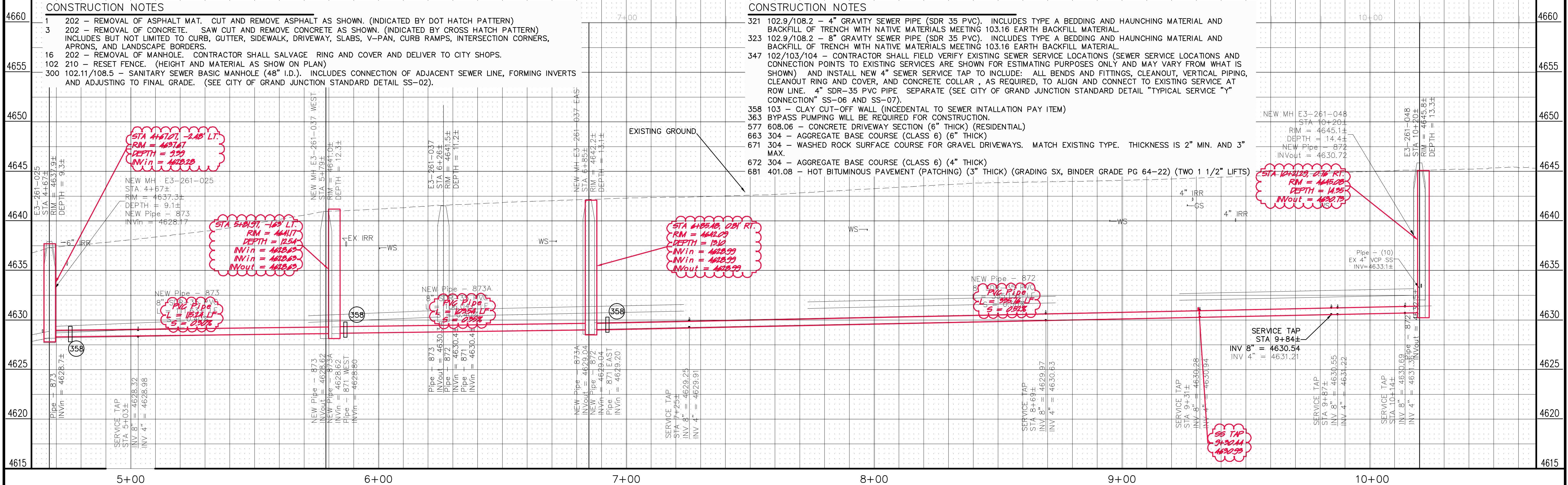
CONSTRUCTION NOTES

- 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.
- 100 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 105 210 - ADJUST STORM DRAIN INLET FRAME AND GRATE TO GRADE.
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT.
- 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).
- 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.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS AND CONNECTION POINTS TO EXISTING SERVICES ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP TO INCLUDE: ALL BENDS AND FITTINGS, CLEANOUT, VERTICAL PIPING, TRACING WIRE, CLEANOUT RING AND COVER, AND CONCRETE COLLAR, AS REQUIRED, TO ALIGN AND CONNECT TO EXISTING SERVICE AT ROW LINE. 4" SDR-35 PVC PIPE SEPARATE (SEE CITY OF GRAND JUNCTION STANDARD DETAIL "TYPICAL SERVICE "Y" CONNECTION" SS-06 AND SS-07).

REVISION Δ SHIFTED SEWER ALIGNMENT TO AVOID HP GAS - 05/09/2011 REVISION Δ ASBUILT FROM PH SURVEY NOTES - 2-2012 REVISION Δ - REVISION Δ -	DRAWN BY JCS DATE 2011 DESIGNED BY DATE CHECKED BY DATE APPROVED BY DATE	SCALES: PLAN: 1" = 20' PROFILE: HORIZONTAL 1" = 20', VERTICAL 1" = 2'		PUBLIC WORKS AND PLANNING ENGINEERING DIVISION	2011 Sewer Line Replacements SANITARY SEWER LINE PLAN AND PROFILE from 20th to 18th in Orchard Avenue	15
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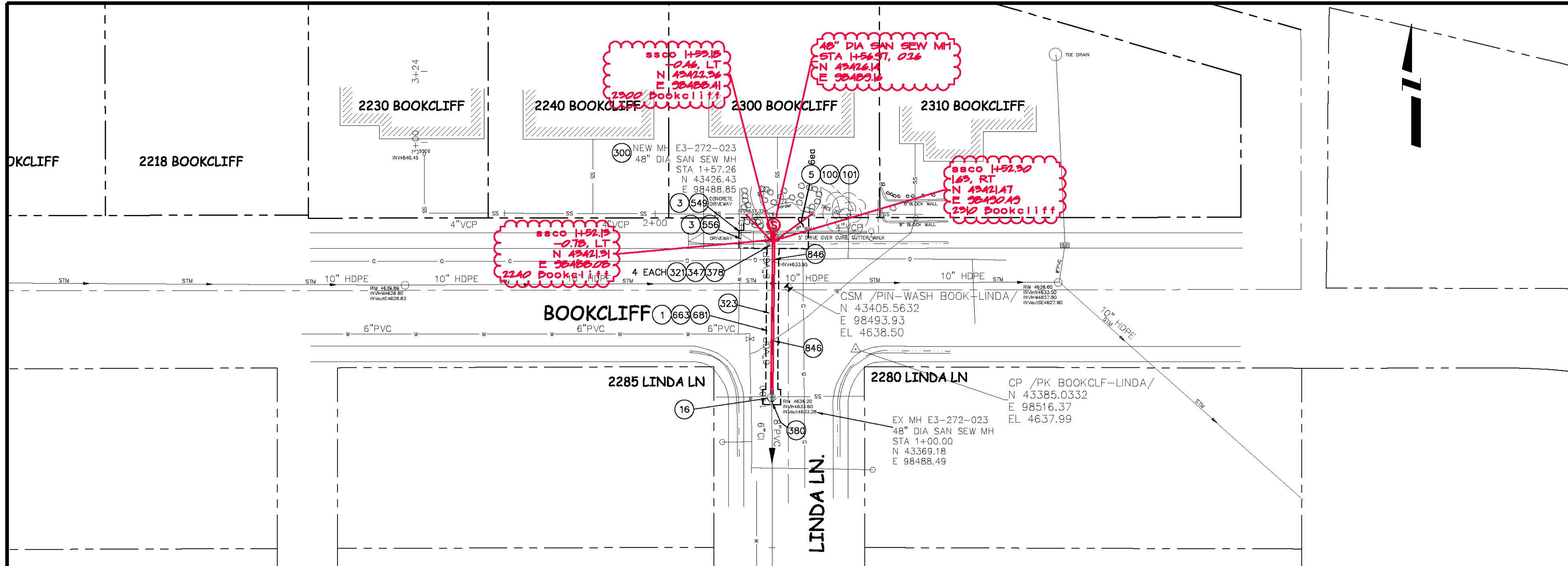


Sewer Line in Hillcrest from 800'± East of 1st West to 300'± East of 1st



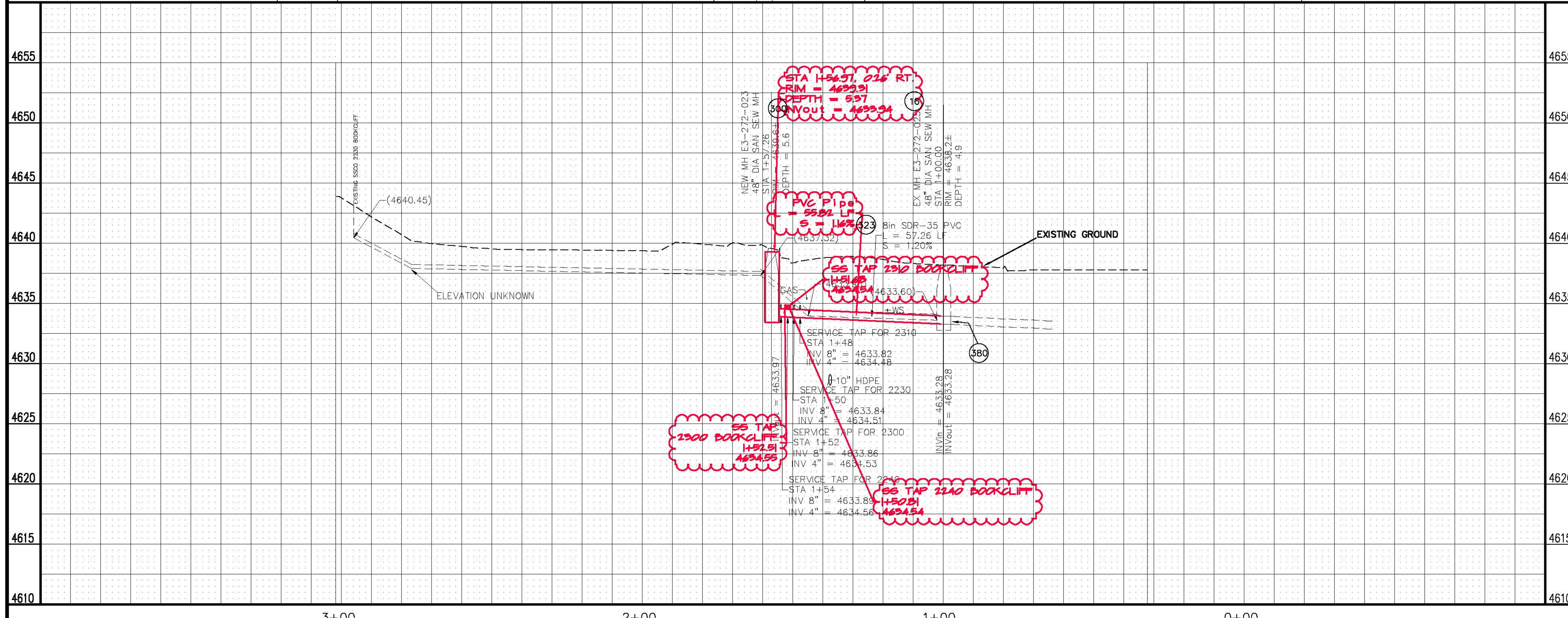
<p>REVISION Δ ASBUILT FROM PH SURVEY NOTES 2-2012</p> <p>REVISION Δ _____</p> <p>REVISION Δ _____</p> <p>REVISION Δ _____</p>	<p>DESCRIPTION _____</p> <p>DATE _____</p> <p>DATE _____</p> <p>DATE _____</p> <p>DATE _____</p>	<p>DRAWN BY JCS DATE 2011</p> <p>DESIGNED BY _____ DATE _____</p> <p>CHECKED BY _____ DATE _____</p> <p>APPROVED BY _____ DATE _____</p>	<p>SCALES:</p> <p>PLAN: 1" = 20'</p> <p>PROFILE: 1" = 20'</p>		<p>PUBLIC WORKS AND PLANNING ENGINEERING DIVISION</p>	<p>2011 Sewer Line Replacements Plan and Profile Sewer Line in Hillcrest from 800'± East of 1st West to 300'± East of 1st</p>	<p>17</p>
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N:\LandProj\2240 Bookcliff tap problem\2240 bookcliff.dwg, PLAN AND PROFILE, 2/10/2012 11:32:52 AM, ANSI D (22.00 x 34.00 inches), 1:1

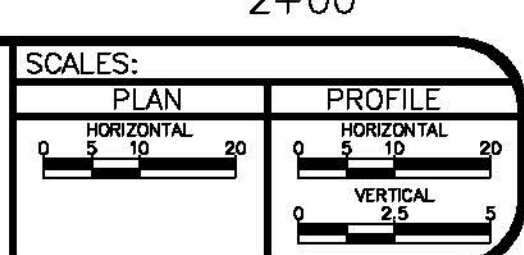


CONSTRUCTION NOTES

- 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.
- 5 202 - REMOVAL OF BUSH
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING. ANY AND ALL ADDITIONAL MATERIALS ARE INCIDENTAL.
- 101 210 - RESET SPRINKLER SYSTEM (COMPLETE IN PLACE)
- 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).
- 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.
- 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.
- 347 102/103/104 - CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER SERVICE LOCATIONS (SEWER SERVICE LOCATIONS ARE SHOWN FOR ESTIMATING PURPOSES ONLY AND MAY VARY FROM WHAT IS SHOWN) AND INSTALL NEW 4" SEWER SERVICE TAP TO INCLUDE: ALL BENDS AND FITTINGS, CLEANOUT, VERTICAL PIPING, TRACING WIRE, CLEANOUT RING AND COVER, AND CONCRETE COLLAR, AS REQUIRED, TO ALIGN AND CONNECT TO EXISTING SERVICE. 4" SDR-35 PVC PIPE SEPARATE (SEE CITY OF GRAND JUNCTION STANDARD DETAIL "TYPICAL SERVICE "Y" CONNECTION" SS-06 AND SS-07).
- 378 CONTRACTOR SHALL USE EITHER DYE OR SMOKE METHODS TO DETERMINE WHICH SERVICE FOR A PROPERTY IS ACTIVE AND REPLACE ONLY THAT SERVICE. IN THE EVENT THAT THE CONTRACTOR CAN NOT DETERMINE WHETHER A SERVICE IS ACTIVE OR NOT THE SERVICE SHALL BE REPLACED AND RECONNECTED. THE CONTRACTOR SHALL PROVIDE AS-CONSTRUCTED LOCATION FOR ALL TAPS REPLACED.
- 380 CONNECT TO EXISTING SEWER PIPE. CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE COST TO CONNECTION.
- 549 608.06 - CONCRETE CURB/WALL. (MATCH IN KIND)
- 556 608.06 - 608.06 - CONCRETE CURB, GUTTER, AND WALK (MATCH IN KIND)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1/2" LIFTS)
- 846 POT HOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. COORDINATE ANY NEEDED DESIGN CHANGES OR UTILITY RELOCATION WITH PROJECT ENGINEER SO AS TO AVOID UTILITY CONFLICTS.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	ASBUILT FROM DT SURVEY NOTES	2-2012	JCS	2011
2			JV	2011
3				
4				



**PUBLIC WORKS
AND PLANNING
ENGINEERING DIVISION**

**2011 SEWER LINE REPLACEMENTS
SEWER LINE EXTENSION IN LINDA LANE
NORTH OF BOOKCLIFF AVENUE**