

DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\86th GN\64001-C-CV.dwg USER: kiser
DATE: Nov 07, 2024 9:17am XREFS: 564001 Civil Border 64001-C-SP-X 64001-VF-BM-X 64001-KEY Notes 2022128 Ownership Base Map Arno 64001-VJUT-X

TABULATION OF LENGTH & DESIGN DATA						
STATION	ROADWAY		BRIDGE		TOTAL	
	FEET	MILE	FEET	MILE	FEET	MILE
E. 96TH AVE. STA 2+93.44 BEGIN PROJECT	5,865	1.11	80	0.02	5,865	1.11
STA 61+77.76 BEGIN BRIDGE					80	0.02
STA 62+57.76 END BRIDGE	6,235	1.18			6,235	1.18
E. 96TH AVE. STA 125+12.75 END PROJECT						
CHAMBERS RD. STA 0+00 TO 3+01.62	302	0.06			302	0.06
TOWER RD. STA 7+03.99 TO 16+95.76	992	0.19			992	0.19
TOTAL	13,394	2.54	80	0.02	13,474	2.56

OWNER

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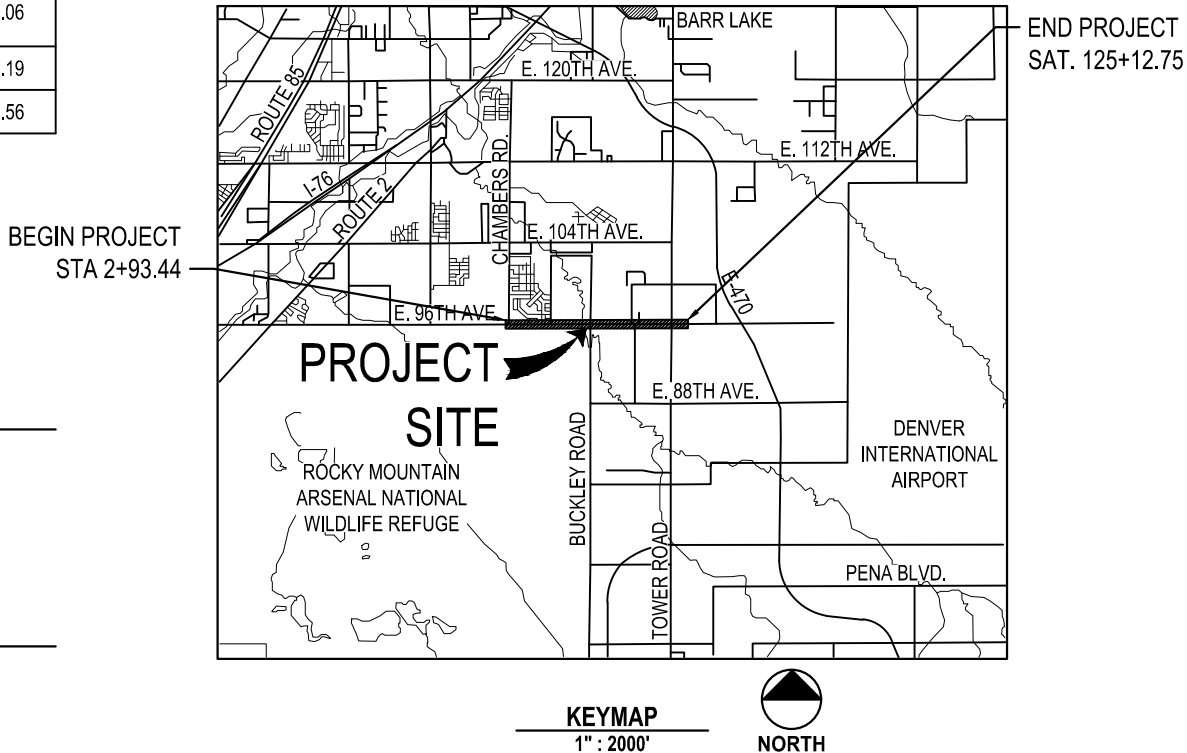
ENVIRONMENTAL

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SUE TEST HOLES

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CITY OF COMMERCE CITY EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD CITY OF COMMERCE CITY PROJECT NO: 2022-18-PW ADAMS COUNTY, COLORADO



SHEET NO	SHEET NAME	SHEET TITLE
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5-10	HC-1 TO HC-6	SURVEY CONTROL DIAGRAM
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DESIGN DATA

DESIGN SPEED = 50 MPH
ADT (2025) = 15,800 VPD
ADT (2045) = 34,600 VPD

DRAWING INFORMATION

File Name
64001-C-CV.dwg
Date
NOVEMBER 1, 2024
Version
Autodesk Civil 3D
Design By
LJK
Checked By
RCR

	INDEX OF REVISIONS	DATE
1	BID ADDENDUM	08/09/2024
2	BID ADDENDUM	08/22/2024
3	ISSUED FOR CONSTRUCTION	11/01/2024

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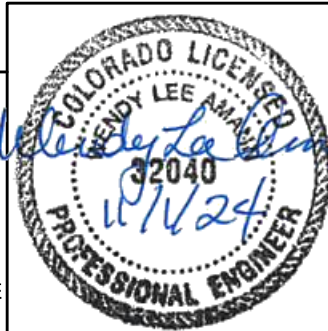
EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

TITLE SHEET


WENDY AMANN, PE# 32040

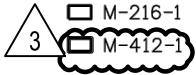
NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
SHEET NAME
CV-1
SHEET NO.
1 OF 315

DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\86th GN\64001-C-G.dwg USER: llskr
DATE: Nov 08, 2024 4:46pm XREFS: 564001 Civil Border



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COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
July 31, 2019

Revised on November 7, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED
AND REVISED, APPLY TO THIS PROJECT WHEN USED
BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE
INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE
PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE
IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

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DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name		BID ADDENDUM	08/09/2024
64001-C-G.dwg		BID ADDENDUM	08/22/2024
Date		ISSUED FOR CONSTRUCTION	11/01/2024
NOVEMBER 1, 2024			
Version			
Autodesk Civil 3D			
Design By			
LJK			
Checked By			
RCR			

Design for:

7887 E. 60th Ave.
Commerce City, CO
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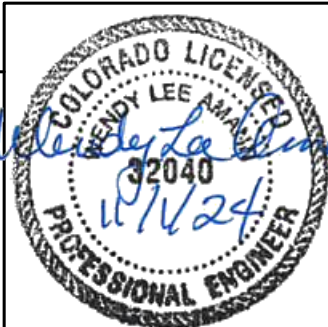
Design by:

555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

CDOT STANDARD PLANS LIST

WENDY AMANN, PE# 32040
NOVEMBER 1, 2024
DATE
THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
SHEET NAME
G-1
SHEET NO.
2 OF 315

DWG: I:\p01\R315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\6th GN\64001-C-GN.dwg
DATE: Nov 08, 2024 4:46pm XREFS: 564001 Civil Border USER: kiser

GENERAL NOTES - STREET CONSTRUCTION	
1.	A CONSTRUCTION RIGHT-OF-WAY AND OVERLOT GRADING PERMITS FROM THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS IS REQUIRED PRIOR TO COMMENCING WORK WITHIN THE CITY RIGHT-OF-WAY.
2.	ANY WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY WILL REQUIRE A CDOT CONSTRUCTION PERMIT IN ADDITION TO A CITY PERMIT.
3.	THE CONTRACTOR SHALL NOTIFY THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION WITHIN THE RIGHT-OF-WAY AT TELEPHONE NUMBER (303) 289-8150.
4.	THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAG MEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE COLORADO SUPPLEMENT TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT FOR WORK WITHIN CITY RIGHT-OF-WAY.
5.	THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL 1-(800) 922-1987 OR 811.
6.	CONSTRUCTION SPECIFICATIONS: CURRENT EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS. SPECIAL PROVISIONS AND REVISIONS THERETO AND THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS ENGINEERING CONSTRUCTION STANDARDS AND SPECIFICATIONS.
7.	THE SUBGRADE MATERIAL SHALL BE SCARIFIED OR REMOVED TO A DEPTH REQUIRED BY THE CITY OF COMMERCE CITY ACCORDING TO INFORMATION OBTAINED FROM LABORATORY TESTS AND/OR AS REQUIRED IN THE PAYEMENT DESIGN REPORT. ADDITIVES OR APPROVED MATERIAL MAY BE REQUIRED IF THE NATIVE MATERIAL IS UNSATISFACTORY. THE SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY DETERMINED IN ACCORDANCE WITH AASHTO DESIGNATION T180 OR T99 AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 203.07 (1991 EDITION OR NEWER).
8.	SERVICE TRENCHES AND UTILITY MAIN TRENCHES SHALL BE COMPACTED THROUGHOUT THE DEPTH OF TRENCH AS SPECIFIED IN ABOVE NOTE. EXACT EXTENT OF NEW PAVEMENT TO BE INSTALLED FOR A STREET CUT PATCH SHALL BE DETERMINED BY THE CITY CONSTRUCTION INSPECTOR UPON COMPLETION OF ROADWAY EXCAVATION, NEW PAVEMENT SHALL CONFORM TO EXISTING SOUND STRUCTURAL SECTION.
9.	CLASS 6 AGGREGATE BASE COURSE FOR SHOULDERS SHALL BE PLACED AND COMPACTED TO 100% STANDARD PROCTOR AFTER PLACEMENT OF ASPHALT.
10.	EXISTING ASPHALT PAVEMENT SHALL BE STRAIGHT SAW CUT WHEN ADJOINING WITH NEW ASPHALT PAVEMENT. CSS-1H TACK COAT SHALL BE APPLIED TO ALL EXPOSED SURFACES, INCLUDING SAW CUTS, POTHOLE, TRENCHES AND ASPHALT OVERLAY.
11.	STRUCTURAL SECTIONS SHALL BE AS APPROVED BY THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS, WITH PAVEMENT DESIGN IN ACCORDANCE WITH THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS ENGINEERING CONSTRUCTION STANDARDS AND SPECIFICATIONS.
12.	CONCRETE MAY BE PLACED BY MACHINE METHODS PROVIDED THAT ALL FINISH LINES ARE WITHIN 1/8" TOLERANCE OF THE LINES SHOWN ON THE PLANS, THE FLOWLINE MUST BE FREE DRAINING.
13.	ONE HALF (1/2) INCH EXPANSION JOINT MATERIAL SHALL BE INSTALLED WHEN ABUTTING ANY EXISTING CONCRETE OR A FIXED STRUCTURE.
14.	SIDEWALKS AND DRIVEWAYS SHALL HAVE THE NAME OF THE CONTRACTOR AND THE YEAR OF CONSTRUCTION IMPRESSED THEREIN USING BLOCK LETTERS NOT LESS THAN (1) INCH HIGH AND THREE-EIGHTHS (3/8) INCH DEEP IN EACH DRIVEWAY AND EACH END OF CONSTRUCTION, OR A MINIMUM OF EVERY 150 LINEAL FEET OF SIDEWALK.
15.	A REFLECTIVE CITY OF COMMERCE CITY LOGO SHALL BE ADDED TO EACH STREET SIGN, STREET NAME SIGN PLATES SHALL BE PROVIDED AND INSTALLED BY THE DEVELOPER PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. COORDINATE WITH CITY OF COMMERCE CITY TRAFFIC ENGINEERING AT (303) 289-8150.
16.	THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK BY THE CITY AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE YEAR PERIOD FROM DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE CITY. ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED. PRIOR TO INITIAL ACCEPTANCE OF PUBLIC IMPROVEMENTS, THE CITY MAY REQUIRE THE APPLICANT OR HIS CONTRACTOR TO FILE A MAINTENANCE BOND WITH THE CITY IN THE AMOUNT OF FIFTEEN (15) PERCENT OF THE ESTIMATED COST OF CONSTRUCTION OR AN AMOUNT ADEQUATE TO ENSURE THE SATISFACTORY MAINTENANCE AND CONDITION OF THE REQUIRED PUBLIC IMPROVEMENTS FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF THEIR FINAL ACCEPTANCE AND DEDICATION TO THE CITY.
17.	NO PORTION OF ANY STREET SHALL BE PAVED WITH THE FINAL LIFT OF ASPHALT UNTIL ALL UTILITIES HAVE BEEN RELOCATED, INSTALLED OR STUBBED TO THE BACK OF SIDEWALK AND ALL STREET LIGHTS RELOCATED AS NECESSARY.
18.	ANGLE POINTS IN THE CURB AND GUTTER AND ALL POINTS OF GRADE CHANGE NOT WITHIN A VERTICAL CURVE SHALL BE ROUNDED IN THE FIELD TO PRODUCE A SMOOTH GRADUAL CURVE FOR PROPER APPEARANCE.
19.	SURVEY MONUMENTS, THE STANDARD SURVEY MONUMENT AS SHOWN IN DESIGN STANDARD DETAIL NO. 300-24 OR 300-25 WILL BE INSTALLED AT ALL SECTION AND QUARTER SECTION CORNERS. SURVEY MONUMENTS SHALL BE SET IN ACCORDANCE WITH THE COLORADO REVISED STATUTES, AND AS REQUIRED BY THE BYLAWS AND RULES OF PROCEDURE OF THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS. ALL MONUMENTS SHALL BE SET WITHIN 60 DAYS OF COMPLETION OF STREETS. IF THE MONUMENTS ARE NOT INSTALLED, THE CITY SHALL HAVE THE WORK PERFORMED BY A REGISTERED LAND SURVEYOR AND MAKE A CLAIM AGAINST THE COLLATERAL FOR ALL COSTS INCLUDING ADMINISTRATION AND LEGAL FEES.
20.	MYLAR COPIES OF "AS BUILT" PLANS SHALL BE SUBMITTED TO THE ENGINEERING DIVISION PRIOR TO INITIAL ACCEPTANCE OF IMPROVEMENTS.
21.	NO REVISIONS TO THESE PLANS SHALL BE MADE WITHOUT THE APPROVAL OF BOTH THE CITY ENGINEER AND THE DESIGN ENGINEER. ANY REVISIONS OR CHANGES THERETO SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY REQUESTS FOR INSPECTION.
22.	BENCHMARK. ALL ELEVATIONS SHOWN ON THESE PLANS FOR IMPROVEMENTS OR NOTED ELSEWHERE ARE REFERENCED TO THE BENCHMARK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENT OR BENCHMARK WHICH IS DESTROYED OR DISTURBED. DAMAGED MONUMENT SHALL BE RE-ESTABLISHED AND REPLACED BY A LICENSED LAND SURVEYOR AND A MONUMENT RECORD FILED AS REQUIRED.
23.	THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND THE CITY OF COMMERCE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER, OR THE CITY OF COMMERCE CITY.

GENERAL NOTES - STREET CONSTRUCTION CONT'D	
24.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANY.
25.	ADJUST RIM OF ALL CLEAN-OUTS, MANHOLES, VALVE COVERS AND SURVEY MONUMENT COVERS TO FINISH GRADE.
26.	THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO THE WORK THROUGHOUT PERIOD OF CONSTRUCTION.
27.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER OF ANY PROBLEM IN CONFORMING TO THE APPROVED LINE AND GRADE FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
28.	IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. IF, IN THE OPINION OF THE CONSTRUCTION INSPECTOR, PROPOSED ALTERATIONS TO THE APPROVED PLANS INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK OR TO FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING REVISED PLANS TO THE CITY OF COMMERCE CITY FOR APPROVAL PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE WORK.
29.	LOCATION OF UNDERGROUND UTILITIES WAS TAKEN FROM THE RECORDS OF THE CONTROLLING AGENCIES. NO RESPONSIBILITY FOR THEIR ACCURACY IS ASSUMED BY THE ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
30.	THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING IMPROVEMENTS, SIDEWALK, ALLEY OR UTILITY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, OR OTHER DAMAGE THAT MIGHT RESULT FROM THE WORK PRESCRIBED ON THIS PLAN. THE LOCAL AGENCY WILL HOLD THE CONTRACTOR RESPONSIBLE FOR CORRECTION OF DAMAGE TO ADJACENT PROPERTY, PUBLIC OR PRIVATE.
31.	THE CONTRACTOR SHALL WORK ON WEEK DAYS BETWEEN THE HOURS OF 8:00 AM AND 5:00 PM. THE CONTRACTOR, UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, WILL BE ALLOWED LANE CLOSURES IN THE PUBLIC ROADWAY WEEK DAYS ONLY FROM THE HOURS OF 9:00 AM TO 3:30 PM, UNLESS ALTERNATE HOURS ARE APPROVED BY COMMERCE CITY'S PUBLIC WORKS DEPARTMENT.

GENERAL NOTES - GRADING	
1.	GRADING PLAN IS FOR ROUGH GRADING ONLY. CHANGES MAY BE NECESSARY TO BRING PLANS INTO CONFORMANCE WITH APPROVED DRAINAGE AND SITE PLAN.
2.	A WATER TRUCK SHALL BE KEPT ON-SITE TO CONTROL WIND EROSION AND DUST.
3.	ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
4.	NO GRADING SHALL TAKE PLACE IN ANY DELINEATED FLOOD HAZARD AREA UNTIL THE FINAL DRAINAGE PLAN HAS BEEN APPROVED AND ALL APPROPRIATE PERMITS HAVE BEEN OBTAINED.
5.	ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT WILL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON WRITTEN NOTICE BY THE CITY, FAILURE TO REMOVE THE MUD OR DEBRIS BY THE CONTRACTOR WITHIN 24 HOURS SHALL CAUSE THE CITY TO STOP ALL WORK UNTIL THE SITUATION IS RESOLVED.
6.	WHEN REQUIRED, A COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE), WATER QUALITY DIVISION, STORMWATER DISCHARGE PERMIT SHALL BE OBTAINED AND A COPY SHALL BE SUBMITTED TO THE CITY OF COMMERCE CITY DEPARTMENT OF PUBLIC WORKS.
7.	AREAS DISTURBED BY GRADING SHALL BE MULCHED AND RESEEDED WITH NATIVE VEGETATION OR AS APPROVED ON THE PLAN.
8.	THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR SAFETY CONDITIONS ON AND ADJACENT TO THE SITE 24 HOURS A DAY, SEVEN DAYS A WEEK.
9.	CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, (811 or 1-800-922-1987)
10.	THE CITY ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE CITY OF COMMERCE CITY PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION, HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE CITY'S STORMWATER QUALITY CONTROL CRITERIA. THE CITY ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY (OTHER THAN AS STATED ABOVE) FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
11.	THE ADEQUACY OF THIS ESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
12.	ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. COMMERCE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE APPROVED PLANS.
13.	THE PLACEMENT OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP's) SHALL BE IN ACCORDANCE WITH THE CITY APPROVED PLANS.
14.	ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL BMP'S FROM THE CITY APPROVED PLANS WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF THE CITY OF COMMERCE CITY ENGINEERING DIVISION.
15.	AFTER THE ESC PLAN HAS BEEN APPROVED, THE CONTRACTOR MAY INSTALL THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMP'S INDICATED ON THE ACCEPTED ESC PLAN.
16.	THE FIRST BMP TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION, INCLUDING CONSTRUCTION LIMITS ADJACENT TO STREAM CORRIDORS AND OTHER AREAS TO BE PRESERVED.
17.	AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMP'S, THE PERMITTEE SHALL CALL THE PUBLIC WORKS AT 303-289-8150 TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.
18.	THE ESC MANAGER SHALL BE CERTIFIED IN STORMWATER MANAGEMENT AND EROSION CONTROL AND DOCUMENTATION SHALL BE PROVIDED TO THE CITY.
19.	THE OWNER OR OWNER'S REPRESENTATIVE, THE ESC MANAGER, THE GENERAL CONTRACTOR, AND THE GRADING SUBCONTRACTOR, IF DIFFERENT FROM THE GENERAL CONTRACTOR, MUST ATTEND THE PRECONSTRUCTION MEETING. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE INSTALLATION OF THE INITIAL BMP'S ARE NOT APPROVED BY THE CITY ESC INSPECTOR, THE APPLICANT WILL HAVE TO PAY A REINSPECTION FEE, ADDRESS ANY PROBLEMS WITH BMP INSTALLATION, AND CALL TO RESCHEDULE THE MEETING. WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION, THE CITY STRONGLY ENCOURAGES THE APPLICANT TO HAVE THE ENGINEER OF RECORD AT THE PRECONSTRUCTION MEETING.
20.	CONSTRUCTION SHALL NOT BEGIN UNTIL THE CITY ESC INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL BMP'S AND THE GRADING PERMIT IS OBTAINED FROM PUBLIC WORKS.
21.	THE ESC MANAGER SHALL STRICTLY ADHERE TO THE APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE CITY OF COMMERCE CITY ENGINEERING DIVISION MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE ENGINEERING DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION.
22.	NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
23.	A COPY OF THE GRADING PERMIT AND APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
24.	THE ESC MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE AND SHALL BE THE PERMITTEE'S CONTACT PERSON WITH THE CITY FOR ALL MATTERS PERTAINING TO THE GRADING PERMIT. THE ESC MANAGER SHALL BE PRESENT AT THE SITE THE MAJORITY OF THE TIME AND SHALL BE AVAILABLE THROUGH A 24-HOUR CONTACT NUMBER.
25.	THE ESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS, INCLUDING STREETS, ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED WITH A STREET SWEEPER OR SIMILAR DEVICE AT FIRST NOTICE OF ACCIDENTAL TRACKING OR AT THE DISCRETION OF THE CITY'S ESC INSPECTOR. STREET WASHING IS NOT ALLOWED. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREA STREETS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.
26.	THE APPROVED PLANS MAY REQUIRE CHANGES OR ALTERATIONS AFTER APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS INEFFICIENCIES IN DESIGN OR INSTALLATION. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH THE CITY APPROVED ACCESS POINTS. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL ACCESS POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE COMMERCE CITY ENGINEERING DIVISION.

GENERAL NOTES - GRADING CONT'D	
27.	THE ESC MANAGER SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER AND COMMERCE CITY ENGINEERING DIVISION FOR ANY PROPOSED CHANGES.
28.	NO PERMANENT EARTH SLOPES GREATER THAN 3:1 SHALL BE ALLOWED.
29.	ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE ESC MANAGER. THE ESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
30.	SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEEDDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE COMMERCE CITY ENGINEERING DIVISION.
31.	ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY GULLIES OR STORM SEWER LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE CDPHE PER CRS 25-8-601, AND COMMERCE CITY. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, SOUTH ADAMS COUNTY WATER AND SANITATION DISTRICT AS WELL AS THE CDPHE. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER.
32.	THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCATION.
33.	COMMERCE CITY DOES NOT ALLOW HAY BALES AS A FORM OF EROSION AND SEDIMENT CONTROL.
34.	ONCE THE SITE HAS REACHED FINAL STABILIZATION, A FINAL INSPECTION SHALL BE SCHEDULED WITH THE CITY'S ESC INSPECTOR. A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED AND/OR THE GRADING BOND WILL NOT BE RELEASED UNTIL THE CITY'S ESC INSPECTOR APPROVES FINAL STABILIZATION.

DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name			
64001-C-GN.dwg			
Date			
NOVEMBER 1, 2024			
Version	Autodesk Civil 3D		
Design By	LJK		
Checked By	RCR		

Design for:	Design by:
7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huit-Zollars.com

EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD	
	 WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE
GENERAL NOTES	

PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

GN-1

SHEET NO.

3 OF 315

DWG: I:\p01\R315640.01 - Commerce City - 98th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\86th GN64001-C-GN.dwg
DATE: Nov 08, 2024 4:46pm XREFS: 564001 Civil Border USER: ltkiser

GENERAL NOTES - TRAFFIC SIGNAL

1. TRAFFIC SIGNAL MATERIAL AND INSTALLATION SHALL COMPLY WITH THESE PLANS AND THE LATEST VERSION OF THE FOLLOWING DOCUMENTS:

1.1 CITY OF COMMERCE CITY (CCC) TRAFFIC SIGNAL SPECIFICATIONS AND STANDARD DETAILS.

1.2 CDOT'S "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION" AND "STANDARD PLANS" (INCLUDING ANY SUBSEQUENT REVISIONS).

1.3 THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

1.4 THE "NATIONAL ELECTRIC CODE" AND ALL OTHER PERTINENT LOCAL ORDINANCES.
2. THE CONTRACTOR SHALL CONTACT CITY OF COMMERCE CITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO COMMENCING WORK ON THE SIGNAL WITHIN CITY ROW.
3. THE SIGNAL CONTROLLER SHALL BE A SIEMENS M62.
4. THE CONTROLLER CABINET SHALL INCLUDE A 16 LOAD BAY P-CABINET WITH NATURAL ALUMINUM FINISH. THE MMU SHALL BE A MMU-16LEUP SUPPORTING FYA. AN UNINTERRUPTED POWER SUPPLY (UPS) SYSTEM SHALL BE PROVIDED THAT MEETS ALL CITY REQUIREMENTS INCLUDING THE INFORMATION PROVIDED UNDER UPS CABINET 9.30.02 AND UPS 9.30.03 IN THE COMMERCE CITY "ENGINEERING CONSTRUCTION STANDARDS AND SPECIFICATIONS".
5. A METER PEDESTAL (SECONDARY SERVICE/DISCONNECT) SHALL BE INSTALLED PER CDOT M STANDARD 613-1. THE ASSOCIATED BREAKER SIZES SHALL BE 50A FOR TRAFFIC SIGNAL CIRCUIT AND 20A FOR STREET LIGHT CIRCUIT USING THREE #6 WIRES FOR THE TRAFFIC SIGNAL CIRCUIT AND THREE #12 WIRES FOR THE STREET LIGHT CIRCUIT. POWER WILL BE PROVIDED TO THE PEDESTAL BY UNITED POWER.
6. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE APPROVED SOUND STATE LED TYPE EXCEPT FOR THE SIDE POLE MOUNT RED INDICATION WHICH SHALL BE AN INCANDESCENT BULB. ALL VEHICLE INDICATIONS SHALL BE 12-INCH. ALL PEDESTRIAN INDICATIONS SHALL BE 16-INCH.
7. LUMINARIES SHALL BE 2500 EQUIVALENT LEDS, POWDER COATED FEDERAL GREEN AND SHALL BE MOUNTED ON 15 FOOT EXTENSION ARMS AT A NOMINAL HEIGHT OF 40 FEET. LUMINARIES SHALL BE GE ERL2 OR APPROVED EQUIVALENT STYLE. THE CONTRACTOR SHALL COORDINATE WITH UNITED POWER WHEN CONNECTING TO POWER SOURCE.

7.1 THE LUMINARIES AND INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL HAVE A SEPARATE POWER SOURCE (CIRCUIT) FROM THE REST OF THE SIGNAL INSTALLATION. ALL UTILITY COSTS FOR LIGHTING WILL BE CHARGED TO THE CITY BASED ON THE METER READING AND ESTABLISHED RATES FOR EACH RESPECTIVE SIGNAL.
8. ALL TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE FURNISHED WITH ASTR-TYPE MOUNTING BRACKETS, AND SHALL INCLUDE LOUVERED BACKPLATES COLORED BLACK WITH REFLECTIVE TAPE BORDERS. SIGNAL HEADS SHALL BE MOUNTED APPROXIMATELY LEVEL WITH ONE ANOTHER, WITH A 17 TO 19 FOOT CLEARANCE ABOVE THE HIGH POINT OF THE PAVEMENT GRADE. PLACEMENT OF SIGNAL AND PEDESTRIAN SIGNAL HEADS SHALL BE DETERMINED BY CITY OF COMMERCE CITY PERSONNEL.
9. ALL PULL BOXES SHALL BE PRECAST POLYMER CONCRETE. ALL CONDUIT SHALL BE SCHEDULE 80 PVC, THREE (3) 3-INCH AND ONE (1) 2-INCH CONDUITS SHALL BE PLACED BETWEEN THE CABINET PULL BOX AND THE CABINET. IN ADDITION, ONE (1) 2-INCH SHALL BE USED FOR LIGHTING/POWER AND ONE (1) 3-INCH FOR THE INTERCONNECT WHICH MAY GO TO THE CONTROLLER FROM A DIFFERENT DIRECTION. A LOCATING WIRE (SINGLE STRAND 12 AWG INSULATED) AND PULL TAPE SHALL BE PLACED IN ALL NEW CONDUIT INSTALLATIONS. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR CONDUIT.
10. THE INSTALLATION SHALL INCLUDE ADA TYPE PEDESTRIAN PUSH BUTTONS AND INSTRUCTIONAL TYPE DECAL SIGNS FOR EACH ROADWAY CROSSING. ALL SIGNAL POLES SHALL BE INSTALLED SO THAT PUSH BUTTON ARE ADJACENT TO A LEVEL, ALL WEATHER SURFACE.
11. TRAFFIC SIGNAL POLES SHALL MEET CURRENT CITY OF COMMERCE CITY STANDARDS (DETAIL NO. 900_03 THROUGH 900-15C). TRAFFIC SIGNAL POLES, MAST ARMS, PEDESTAL POLES, PEDESTRIAN PUSH BUTTON POLES, AND LUMINARIES EXTENSION ARMS SHALL BE FACTORY GALVANIZED AND POWDER COATED FEDERAL GREEN. A COLOR SAMPLE SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO ORDERING ANY SIGNAL EQUIPMENT. ALL HOLES IN STEEL POLES SHALL BE DRILLED OR SAWED. INSTALLING HOLES BY MEANS OF BURNING WITH W TORCH SHALL NOT BE PERMITTED.
12. ALL VEHICLE TRAFFIC SIGNAL HEADS SHALL BE POLYCARBONATE TYPE AND BLACK IN COLOR. PEDESTRIAN SIGNAL HEADS SHALL BE ALUMINUM TYPE, COLORED BLACK AND SHALL BE SOLID LED WITH A COUNTDOWN TIMER.
13. SIGNAL HEADS SHALL BE WIRED SEPARATELY FROM THE SIGNAL HEAD TO THE ABOVE GROUND HANDHOLE (AT THE BASE OF THE THE SIGNAL POLE) AND WITH NO OVERHEAD SPLICES. A SEPARATE 21-CONDUCTOR CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE HANDHOLE AT EACH POLE WITH NO SPLICES.
14. THE TRAFFIC SIGNAL CONTROLLER SHALL BE INSPECTED AND PROGRAMMED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 15 WORKING DAYS PRIOR TO INSTALLATION OF THE CONTROLLER AND ETHERNET SWITCH SO THE CITY CAN PROVIDE THE CONTROLLER PROGRAM TO THE CONTRACTOR WITH ADEQUATE TIME. THE ETHERNET SWITCH SHALL BE TURNED OVER TO THE CITY UPON RECEIPT BY THE CONTRACTOR TO ALLOW CITY STAFF TO PROGRAM THE SWITCH IN A TIMELY MANNER.
15. MAST ARMS SHALL BE OF SUFFICIENT LENGTH TO ALLOW A SIGNAL HEAD TO BE MOUNTED IN THE CENTER OF THE INSIDE LEFT TURN LANE.
16. AS-BUILTS SHALL BE PROVIDED TO CITY OF COMMERCE CITY PRIOR TO SIGNAL OPERATION.
17. APPROPRIATE REGULATORY SIGNS, WARNING SIGNS AND PAVEMENT MARKINGS (ARROWS, SYMBOLS, ETC.) SHALL BE IN PLACE PRIOR TO SIGNAL OPERATION AND APPROVED BY CITY PERSONNEL.
18. THE UTILITY INFORMATION SHOWN ON THE SIGNAL PLANS IS APPROXIMATE ONLY AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. TO AVOID ANY DAMAGE TO A UTILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION OF UTILITIES BEFORE COMMENCING ANY DRILLING, BORING, TRENCHING, OR OTHER EXCAVATION TYPE WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 OR 303-232-1991.
19. FIRE PREEMPTION UNITS AND TIMER SHALL BE INSTALLED AT THIS SIGNALIZED INTERSECTION. THE TIMER SHALL CONSIST A PLUG-IN, FOUR CHANNEL, DUAL-PRIORITY, ENCODED SIGNAL DEVICE DESIGNED FOR USE WITH EACH FIRE PREEMPTION UNIT. EACH INTERSECTION SHALL CONTAIN TWO EACH OF THE FOLLOWING: TWO DIRECTION, TWO OUTPUT DETECTION, DUAL CHANNEL FIRE APPROACHES. THE ENCLOSURE SHALL BE HIGH-IMPACT POLYCARBONATE.
20. ILLUMINATED STREET NAME SIGNS SHALL BE PER CITY DETAIL 900-01 AND SECTION 9.25.02 OF THE CITY'S CONSTRUCTION STANDARDS AND SPECIFICATIONS.
21. ALL TRAFFIC SIGNAL EQUIPMENT WILL BE MEASURED BY THE VARIOUS TYPES INSTALLED AND SHALL INCLUDE ALL INCIDENTAL MATERIALS AND WIRING NECESSARY FOR THE INSTALLATION AND OPERATION OF EACH ITEM.
22. DECORATIVE BASE COVERS (SEE DETAIL 900-15C) SHALL BE INSTALLED ON ALL SIGNAL POLES. DECORATIVE BASE COVERS SHALL BE POWER COATED FEDERAL GREEN. THE ACCESS DOOR IN DECORATIVE BASE SHALL ALLOW UNRESTRICTED ACCESS TO SIGNAL POLE HAND HOLE.

GENERAL NOTES - TRAFFIC SIGNAL CONT'D

23. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE IP BASED CCTV CAMERA SYSTEM THAT WILL INCLUDE AN AXIS Q6075-E IP CCTV CAMERA (OR APPROVED EQUIVALENT) WITH POLE MOUNT ADAPTER, POE INJECTOR, ETHERNET SURGE SUPPRESSOR, AND ALL ASSOCIATION CABLING. IN ADDITION, THE CONTRACTOR SHALL FURNISH AND INSTALL A SIEMENS RUGGEDCOM R59900G-H1-IN-2LC10-XX ETHERNET SWITCH FOR ONE (1) GIGABIT BACKBONE INCLUDING ALL HARDWARE, CABLING AND ENCLOSURES AS REQUIRED. THE ETHERNET SWITCH SHALL BE TURNED OVER TO THE CITY UPON RECEIPT BY THE CONTRACTOR FOR PROGRAMMING BY CITY STAFF. ONCE PROGRAMMED BY CITY STAFF, THE ETHERNET SWITCH SHALL BE RETURNED TO THE CONTRACTOR FOR FIELD INSTALLATION. NETWORKING SHALL BE COMPLETED BY THE CITY.
24. THE VIDEO DETECTION BAYS SHALL BE AT LEAST 40 FEET LONG. CAMERAS SHALL BE LOCATED BASED ON COORDINATION WITH THE DETECTION EQUIPMENT MANUFACTURER. MANUFACTURER SHALL PROVIDE SUPPORT FOR DETECTION ZONE SETUP. THE DETECTION SYSTEM SHALL INCLUDE ALL NECESSARY MODULES IN ORDER TO SUCCESSFULLY CONNECT TO THE CITY'S NETWORK FOR REMOTE VIEWING AND PROGRAMMING FROM THE CITY'S TOC.
25. ALL UNUSED CONDUITS SHALL BE FITTED WITH END PLUGS PRIOR TO BACKFILLING. PLUGS MUST BE MANUFACTURED FOR THIS SPECIFIC PURPOSE AND BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
26. THE VIDEO DETECTION SYSTEM SHALL INCLUDE A NETWORK INTERFACE CARD FOR ENABLING OF REMOTE VIEWING AND PROGRAMMING THROUGH COMMERCE CITY'S TRAFFIC NETWORK.

GENERAL NOTES - STORM SEWER

1. ALL STORM SEWER CONSTRUCTION, INCLUDING MANHOLES, INLETS AND PIPE TRENCHES, SHALL BE GOVERNED BY THE COMMERCE CITY STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA MANUAL AND STANDARDS SPECIFICATIONS, AND THE COLORADO DEPARTMENT OF HIGHWAYS STANDARDS SPECIFICATIONS, LATEST EDITION. IN THE EVENT OF CONFLICT THE COMMERCE CITY STANDARDS WILL GOVERN.
2. ALL STORM SEWER PIPE SHALL BE ASTM C76 CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
3. FOR CONSTRUCTION IN THE CITY OF COMMERCE CITY, THE FOLLOWING MODIFICATIONS HAVE BEEN MADE TO THE CDOT STANDARD TYPE R INLET:

A. THE 5-FOOT TYPE R INLET SHALL HAVE ONE MANHOLE RING AND LID.

B. THE 10-FOOT TYPE R INLET SHALL HAVE TWO MANHOLE RINGS AND LIDS.

C. THE 15-FOOT TYPE R INLET SHALL HAVE THREE MANHOLE RINGS AND LIDS, WITH ON MANHOLE RING AND LID BEING LOCATED AT THE CENTER OF THE INLET.

D. THE 20-FOOT TYPE R INLET SHALL HAVE FOUR MANHOLE RINGS AND LIDS. A HANGING CENTER WALL SHALL BE BUILT WITH A BOTTOM OPENING DEPTH SUFFICIENT TO HANDLE DESIGN WATER FLOWS. THE CENTER TWO MANHOLES SHALL BE LOCATED ONE EACH, ON BOTH SIDES OF THE CENTER WALL.

4. ALL STORM SEWER MANHOLES SHALL BE 1/4 INCH LOW TO FLUSH WITH FINAL PAVED SURFACE.

5. PRIOR TO INITIAL ACCEPTANCE OF PUBLIC IMPROVEMENTS, THE CITY MAY REQUIRE THE APPLICANT OR HIS CONTRACTOR TO FILE A MAINTENANCE BOND WITH THE CITY IN THE AMOUNT OF FIFTEEN (15) PERCENT OF THE ESTIMATED COST OF CONSTRUCTION OR AN AMOUNT ADEQUATE TO ENSURE THE SATISFACTORY MAINTENANCE AND CONDITION OF THE REQUIRED PUBLIC IMPROVEMENTS FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF THEIR FINAL ACCEPTANCE AND DEDICATION TO THE CITY.

6. THE CONTRACTOR SHALL FURNISH AND INSTALL, PER SPECIFICATIONS, THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC SEWER LINES, INCLUDING SEWER LATERALS LOCATED IN PUBLIC RIGHTS-OF-WAY.

7. AFTER COMPLETION OF PIPE LAYING, ALL MAIN LINE SEWERS, SERVICE LATERALS AND STRUCTURES SHALL BE TESTED IN THE PRESENCE OF THE INSPECTOR. IT WILL BE THE PERMITTEE'S RESPONSIBILITY TO PAY FOR THE COST OF THIS WORK.

8. COMPACTION TESTS SHALL BE SUPPLIED BY CONTRACTOR FOR ALL TRENCHES.

9. BEDDING FOR THE RCP PIPE SHALL BE AG7122 NO. 57/67 CRUSHED ROCK, SQUEEGEE OR MIXTURES CONTAINING SQUEEGEE SHALL NOT BE USED. BEDDING SHALL BE SIX TO EIGHT INCHES DEEP UNDER THE PIPE AND BACKFILLED TO THE SPRING LINE.

10. REQUEST FOR AN INSPECTION OF REINFORCEMENT AND SUBGRADE MUST BE CALLED 24 HOURS PRIOR TO PLACEMENT OF CONCRETE AT MANHOLES AND INLETS. STORM SEWER INSTALLATION SHALL BE SUBJECTED TO ADDITIONAL PERIODIC INSPECTION BY THE ENGINEER, FOR STORM SEWER IN THE ROADWAY AREA, TRENCH COMPACTION SHALL BE IN ACCORDANCE WITH AASHTO T99 OR T180 AS REQUIRED IN SECTION 203.11 OF THE CDOT STANDARD SPECIFICATIONS. COMPACTION TESTS MUST BE PERFORMED BY A GEOTECHNICAL ENGINEER AND SHALL BE A MINIMUM OF EVERY 250 FEET ALONG THE TRENCH. TESTING INTERVALS MAY BE INCREASED AT THE DISCRETION OF THE CITY INSPECTOR.

GENERAL NOTES - STORM SEWER ABANDONMENT

1. FUTURE ABANDONMENT OF THE 24" REINFORCED STORM SEWER PIPE AND MANHOLES IN BETWEEN STATION 82+98.46 AND STATION 89+98.41 WILL BE ABANDONED IN PLACE FILLED WITH CLSM/FLOWABLE FILL. FRAMES AND CONES TO BE REMOVED, PIPES BULKHEADED FILLED WITH FLOW FILL, STRUCTURES BACKFILLED WITH SAND.

GENERAL NOTES - NOISE REQUIREMENTS

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AGENCY NOISE ORDINANCES AND/OR OTHER RESTRICTIONS APPLICABLE TO NIGHTTIME CONSTRUCTION ACTIVITIES FOR PROJECTS WITHIN THE LOCAL MUNICIPAL COVERAGE AREA. PROJECTS FALLING WITHIN UNINCORPORATED AREAS OF A COUNTY WILL BE GOVERNED BY THE COUNTY CODE. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AGENCY(S) FOR ALL NECESSARY NOISE EXEMPTIONS OR NOTICES, NOISE PERMIT VARIANCES, AND APPROVALS TO DO NIGHT WORK AS REQUIRED. STANDARD NOISE CONTROLS AND BEST MANAGEMENT PRACTICES FOR REDUCING EQUIPMENT AND CONSTRUCTION ACTIVITY NOISE LEVELS SHALL BE UTILIZED IN ALL CASES AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONSISTENTLY EMPLOY WHEN WORKING IN NOISE-SENSITIVE AREAS AFTER 7:00 PM.
2. FOR THIS PROJECT, THE CONTRACTOR IS REQUIRED TO REVIEW AND UNDERSTAND ALL LOCAL AGENCY ORDINANCES WITH PROJECT APPLICABLE NIGHT RESTRICTIONS. WHEN CONDITIONS APPLY, THE CONTRACTOR SHALL SUBMIT A NIGHTTIME NOISE ORDINANCE MEMORANDUM(S) TO ALL JURISDICTIONAL LOCAL AUTHORITIES. THIS MEMORANDUM SHALL REQUEST CONSTRUCTION NOISE EXCEPTIONS FOR NIGHT WORK OPERATIONS (AT LEAST TWO WEEKS PRIOR TO THE PROPOSED NIGHT WORK START DATE) WHERE CONSTRUCTION WORK IS SCHEDULED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM.
3. ALL NIGHTTIME CONSTRUCTION ACTIVITIES SUBJECT TO NOISE LEVEL RESTRICTIONS CANNOT BEGIN UNTIL THE NECESSARY DOCUMENTATION AND NOTIFICATIONS HAVE BEEN APPROVED BY THE LOCAL AGENCY AUTHORITY. THE COMMERCE CITY PROJECT MANAGER, ALL EXEMPTION REQUESTS AND PERMITTING REQUIREMENTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

DRAWING INFORMATION		INDEX OF REVISIONS	DATE
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Date		△	
NOVEMBER 1, 2024		△	
Version	Autodesk Civil 3D	△	
Design By		△	
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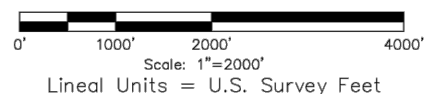
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 Commerce CITY 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	 HUIT ZOLLARS 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huit-Zollars.com

EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD	
GENERAL NOTES	
THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	

	PROJECT NO
	COMMERCE CITY 2022-18-PW
	HUITT-ZOLLARS R315640.01
	SHEET NAME
	GN-2
	SHEET NO. 4 OF 315

SURVEY CONTROL DIAGRAM
EAST 96th AVENUE, CHAMBERS ROAD to TOWER ROAD
SECTIONS 15, 16, 17, 18, 19, 20, 21 AND 22,
TOWNSHIP 2 SOUTH, RANGE 66 WEST, ADAMS COUNTY

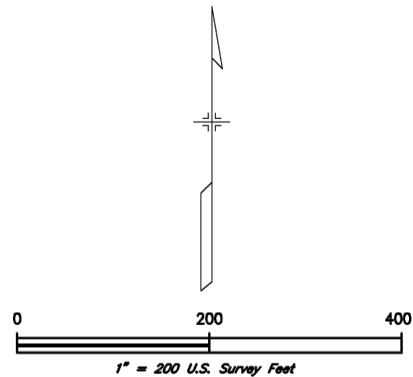
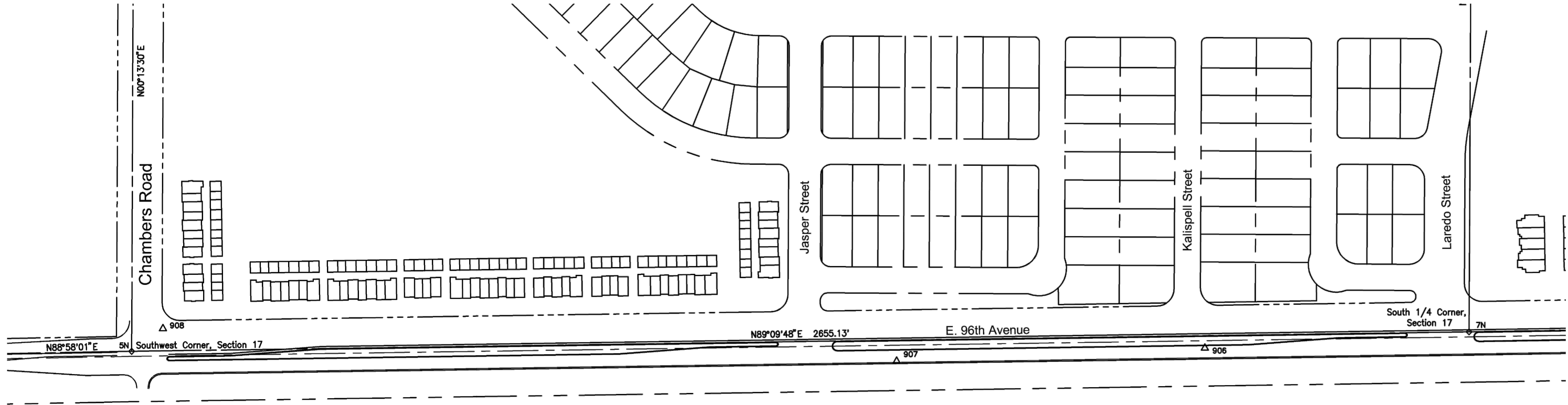
7. Date of survey: October, 2022.



DRAWING INFORMATION		INDEX OF REVISIONS		DATE	Design for:	Design by:	EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD		LESTER J. LUDEMAN, PLS 25636	2022-18-PW HUITT-ZOLLARS R315640.01 SHEET NAME HC-1 SHEET NO. 5 OF 315
File Name	△				Commerce CITY 7887 E. 60th Ave. Commerce City, Co 80022 PH 303-289-3600 www.c3gov.com	FWS FORESIGHT WEST SURVEYING INC. 1000 S. Inca Street, Suite, CO 80023 303-504-4440 foresightwest.com Boundary Control Construction GIS and Mineral Global Positioning	EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD SURVEY CONTROL DIAGRAM	LESTER J. LUDEMAN, PLS 25636 16 May, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF "INSERT NAME". BE		
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Date	△									
NOVEMBER 1, 2024	△									
Version	△									
Design By	△									
Checked By	△									

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USER: ludeman



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
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Commerce City, Co 80022
PH 303-289-3600
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Design by:

1300 S. Inca Street, Denver, CO 80023 303-554-4440
Boundary Control Construction GIS and Mineral Global Positioning

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SURVEY CONTROL DIAGRAM

LESTER J. LUDEMAN, PLS 25636

16 May, 2024

DATE

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PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
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SHEET NO.
6 OF 315



DWG: J:\Project\62022-129-129-HZ-9th Control\topo\022129-CAD\022129-Control Diagram on HZ Sheets Half Size.dwg
DATE: Jun 04, 2024 11:12am XREFS: 664001 Civil Border 64001 Survey Border LUL
USER: ludeman

Geodetic Coordinate Table NAD83(NSRS 2011)

Point ID	Latitude(N)	Longitude(W)	Elevation	Description
5N	39°52' 15.1576"N	104°48' 34.4213"W	5207.34	3.25" Aluminum Cap in Monument Box stamped JR ENG PLS 30822 1998
7N	39°52' 15.3351"N	104°48' 00.3772"W	5207.44	3.25" Aluminum Cap in Monument Box stamped, Illegible
9N	39°52' 15.5580"N	104°47' 26.2791"W	5164.13	3.25" Aluminum Cap stamped CWC MOLLENHAUER PLS 37890 2016
11N	39°52' 15.3516"N	104°46' 52.6057"W	5243.71	3.25" Aluminum Cap in Monument Box stamped CWC MOLLENHAUER PLS 37890 2016
13N	39°52' 15.1446"N	104°46' 18.9253"W	5254.36	2.5" Aluminum in Monument Box stamped LS 29425 2018
401	39°52' 16.0755"N	104°47' 14.1079"W	5200.42	1.5" Aluminum Cap stamped JR ENG PLS 38578
402	39°52' 15.9394"N	104°46' 51.9273"W	5245.08	Nail & 1" Shiner stamped AZTEC PLS 32428
403	39°52' 15.8223"N	104°46' 32.7723"W	5260.31	1.25" Red Plastic Cap stamped AZTEC PLS 38256
404	39°52' 14.6354"N	104°46' 32.7840"W	5260.24	1.25" Red Plastic Cap stamped MANHARD PLS 38361
405	39°52' 06.4030"N	104°46' 19.9595"W	5258.18	1.25" Red Plastic Cap stamped MANHARD PLS 38361
406	39°52' 15.5266"N	104°47' 18.4515"W	5186.19	1.5" Aluminum Cap stamped JR ENG PLS 38578
407	39°52' 13.4109"N	104°46' 20.5379"W	5252.14	1.25" Red Plastic Cap stamped MANHARD PLS 38361
408	39°52' 12.9456"N	104°46' 19.9427"W	5253.53	1.25" Red Plastic Cap stamped MANHARD PLS 38361
409	39°52' 16.0435"N	104°47' 08.6716"W	5210.34	1.5" Aluminum Cap stamped JR ENG PLS 38578
900	39°52' 14.7609"N	104°46' 52.2107"W	5243.96	Chiseled +
901	39°52' 12.9528"N	104°46' 52.2251"W	5239.95	Chiseled +
902	39°52' 16.5481"N	104°47' 07.9459"W	5220.31	#5 Rebar & Pink Control Cap
903	39°52' 13.3263"N	104°47' 25.0000"W	5173.84	#5 Rebar & Pink Control Cap
904	39°52' 15.9861"N	104°47' 41.1051"W	5177.45	Chiseled Triangle
905	39°52' 15.1628"N	104°47' 54.6866"W	5200.46	Bare #5 Rebar
906	39°52' 15.0589"N	104°48' 07.1061"W	5210.60	Bare #5 Rebar
907	39°52' 14.8497"N	104°48' 14.9494"W	5211.40	Bare #5 Rebar
908	39°52' 15.6007"N	104°48' 33.6214"W	5207.54	Chiseled Triangle
909	39°52' 15.8837"N	104°46' 36.3614"W	5258.98	Chiseled Triangle
910	39°52' 13.5288"N	104°46' 19.5616"W	5253.64	#5 Rebar & Pink Control Cap
DH9139	39°55' 17.8725"N	104°49' 21.5604"W	5066.14	Stainless Rod in Sleeve NGS Point A 457

Geodetic Coordinate Table Colorado State Plane, North Zone, U.S. Feet

Point ID	Northing	Easting	Elevation	Description
5N	1196565.45	3193793.10	5207.34	3.25" Aluminum Cap in Monument Box stamped JR ENG PLS 30822 1998
7N	1196604.21	3196447.22	5207.44	3.25" Aluminum Cap in Monument Box stamped, Illegible
9N	1196647.90	3199105.51	5164.13	3.25" Aluminum Cap stamped CWC MOLLENHAUER PLS 37890 2016
11N	1196648.15	3201731.03	5243.71	3.25" Aluminum Cap in Monument Box stamped CWC MOLLENHAUER PLS 37890 2016
13N	1196648.63	3204357.10	5254.36	2.5" Aluminum in Monument Box stamped LS 29425 2018
401	1196707.86	3200054.02	5200.42	1.5" Aluminum Cap stamped JR ENG PLS 38578
402	1196708.06	3201783.44	5245.08	Nail & 1" Shiner stamped AZTEC PLS 32428
403	1196708.36	3203276.95	5260.31	1.25" Red Plastic Cap stamped AZTEC PLS 38256
404	1196588.26	3203277.02	5260.24	1.25" Red Plastic Cap stamped MANHARD PLS 38361
405	1195763.47	3204283.73	5258.18	1.25" Red Plastic Cap stamped MANHARD PLS 38361
406	1196649.61	3199715.81	5186.19	1.5" Aluminum Cap stamped JR ENG PLS 38578
407	1196472.18	3204232.82	5252.14	1.25" Red Plastic Cap stamped MANHARD PLS 38361
408	1196425.48	3204279.60	5253.53	1.25" Red Plastic Cap stamped MANHARD PLS 38361
409	1196708.04	3200477.89	5210.34	1.5" Aluminum Cap stamped JR ENG PLS 38578
900	1196588.63	3201762.31	5243.96	Chiseled +
901	1196405.68	3201762.67	5239.95	Chiseled +
902	1196759.55	3200534.05	5220.31	#5 Rebar & Pink Control Cap
903	1196422.89	3199207.04	5173.84	#5 Rebar & Pink Control Cap
904	1196681.99	3197949.26	5177.45	Chiseled Triangle
905	1196590.29	3196891.03	5200.46	Bare #5 Rebar
906	1196572.13	3195922.83	5210.60	Bare #5 Rebar
907	1196546.16	3195311.48	5211.40	Bare #5 Rebar
908	1196610.77	3193855.12	5207.54	Chiseled Triangle
909	1196712.29	3202997.08	5258.98	Chiseled Triangle
910	1196484.73	3204308.83	5253.64	#5 Rebar & Pink Control Cap
DH9139	1215024.81	3189976.66	5066.14	Stainless Rod in Sleeve NGS Point A 457

Project System Coordinate Table U.S. Feet

Point ID	Northing	Easting	Elevation	Description
5N	196892.20	194665.26	5207.34	3.25" Aluminum Cap in Monument Box stamped JR ENG PLS 30822 1998
7N	196930.98	197320.11	5207.44	3.25" Aluminum Cap in Monument Box stamped, Illegible
9N	196974.68	199979.12	5164.13	3.25" Aluminum Cap stamped CWC MOLLENHAUER PLS 37890 2016
11N	196974.93	202605.36	5243.71	3.25" Aluminum Cap in Monument Box stamped CWC MOLLENHAUER PLS 37890 2016
13N	196975.41	205232.15	5254.36	2.5" Aluminum in Monument Box stamped LS 29425 2018
401	197034.66	200927.89	5200.42	1.5" Aluminum Cap stamped JR ENG PLS 38578
402	197034.86	202657.78	5245.08	Nail & 1" Shiner stamped AZTEC PLS 32428
403	197035.16	204151.71	5260.31	1.25" Red Plastic Cap stamped AZTEC PLS 38256
404	196915.02	204151.78	5260.24	1.25" Red Plastic Cap stamped MANHARD PLS 38361
405	196090.01	205158.75	5258.18	1.25" Red Plastic Cap stamped MANHARD PLS 38361
406	196976.39	200589.59	5186.19	1.5" Aluminum Cap stamped JR ENG PLS 38578
407	196798.91	205107.83	5252.14	1.25" Red Plastic Cap stamped MANHARD PLS 38361
408	196752.20	205154.63	5253.53	1.25" Red Plastic Cap stamped MANHARD PLS 38361
409	197034.84	201351.88	5210.34	1.5" Aluminum Cap stamped JR ENG PLS 38578
900	196915.40	202636.65	5243.96	Chiseled +
901	196732.39	202637.01	5239.95	Chiseled +
902	197086.36	201408.06	5220.31	#5 Rebar & Pink Control Cap
903	196749.61	200080.68	5173.84	#5 Rebar & Pink Control Cap
904	197008.78	198822.55	5177.45	Chiseled Triangle
905	196917.05	197764.04	5200.46	Bare #5 Rebar
906	196898.89	196795.57	5210.60	Bare #5 Rebar
907	196872.92	196184.06	5211.40	Bare #5 Rebar
908	196937.54	194727.30	5207.54	Chiseled Triangle
909	197039.09	203871.75	5258.98	Chiseled Triangle
910	196811.47	205183.86	5253.64	#5 Rebar & Pink Control Cap
DH9139	215356.61	190847.78	5066.14	Stainless Rod in Sleeve NGS Point A 457

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File Name
2022129-Control Diagram on
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Date
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

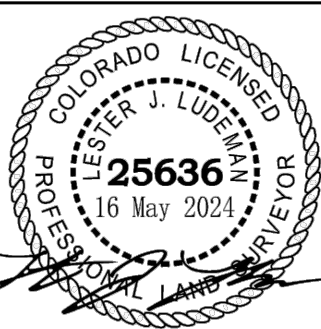
SURVEY CONTROL COORDINATE DATA

LESTER J. LUDEMAN, PLS 25636

16 May, 2024

DATE

THESE PLANS WERE PREPARED UNDER THE
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PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

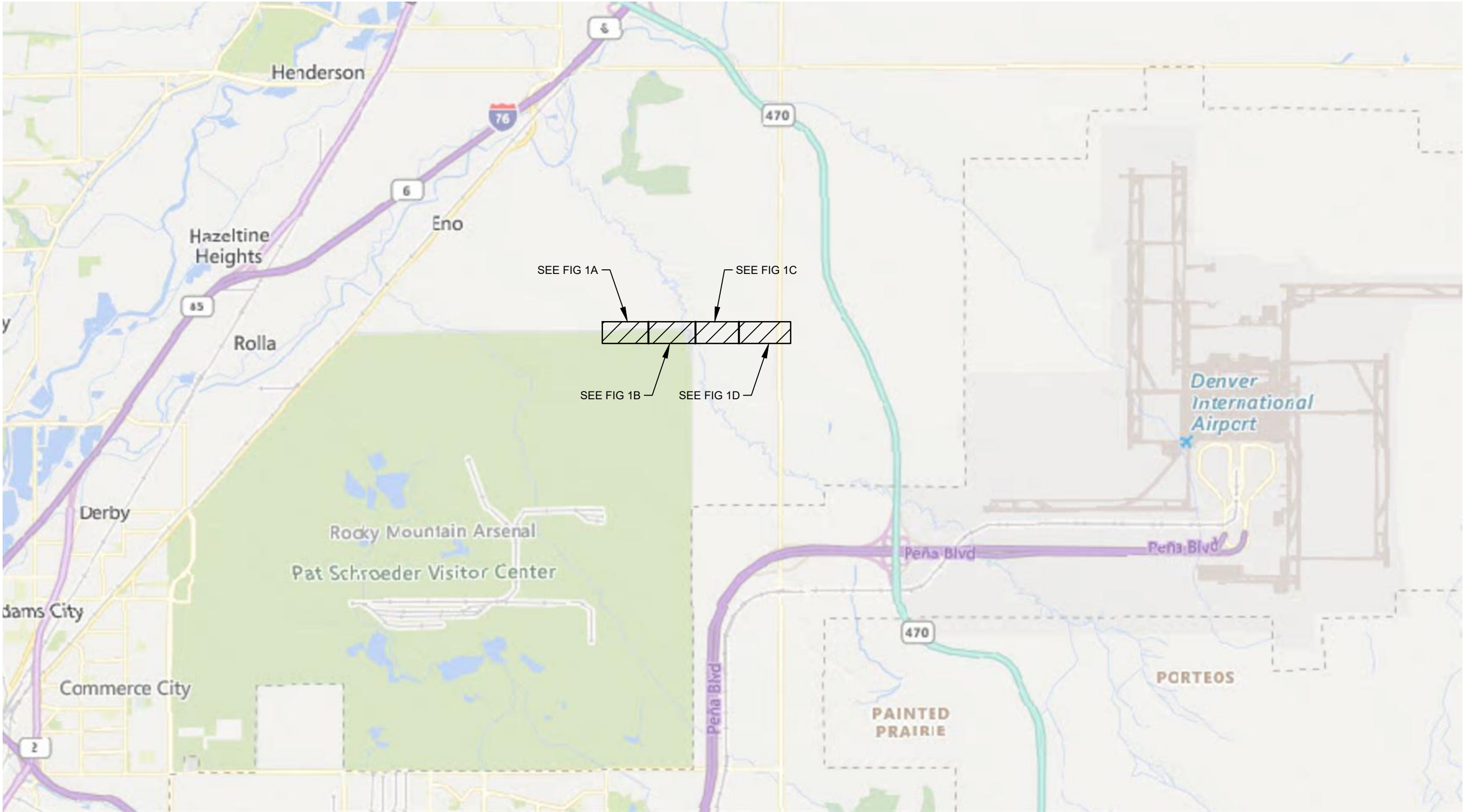
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN

LEGEND

"INSERT NAME", PE# #####

DATE

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COMMERCE CITY
2022-18-PW

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R315640.01

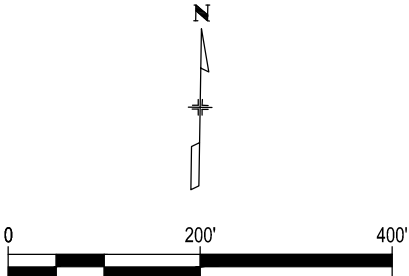
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80022
PH 303-289-3600
www.c3gov.com

Design by:



EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN
FIGURE 1A

"INSERT NAME", PE# #####

DATE

THESE PLANS WERE PREPARED UNDER THE
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PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

SB-2

SHEET NO.

12 OF 315

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NOVEMBER 1, 2024

Version
Autodesk Civil 3D

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Commerce
CITY
7887 E. 60th Ave.
Commerce City, Co
80022
PH 303-289-3600
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN
FIGURE 1B

"INSERT NAME", PE# #####

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DIRECT SUPERVISION OF "INSERT NAME", PE

PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

SB-3

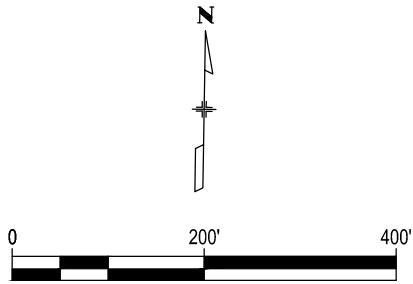
SHEET NO.

13 OF 315



MATCH LINE B
SEE FIG. 1B

MATCH LINE C
SEE FIG. 1D



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Design By		△	
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

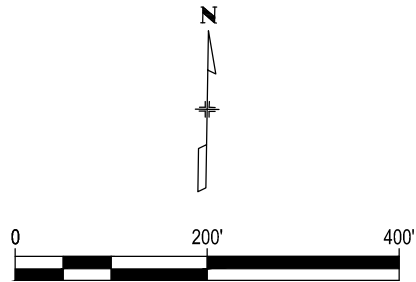
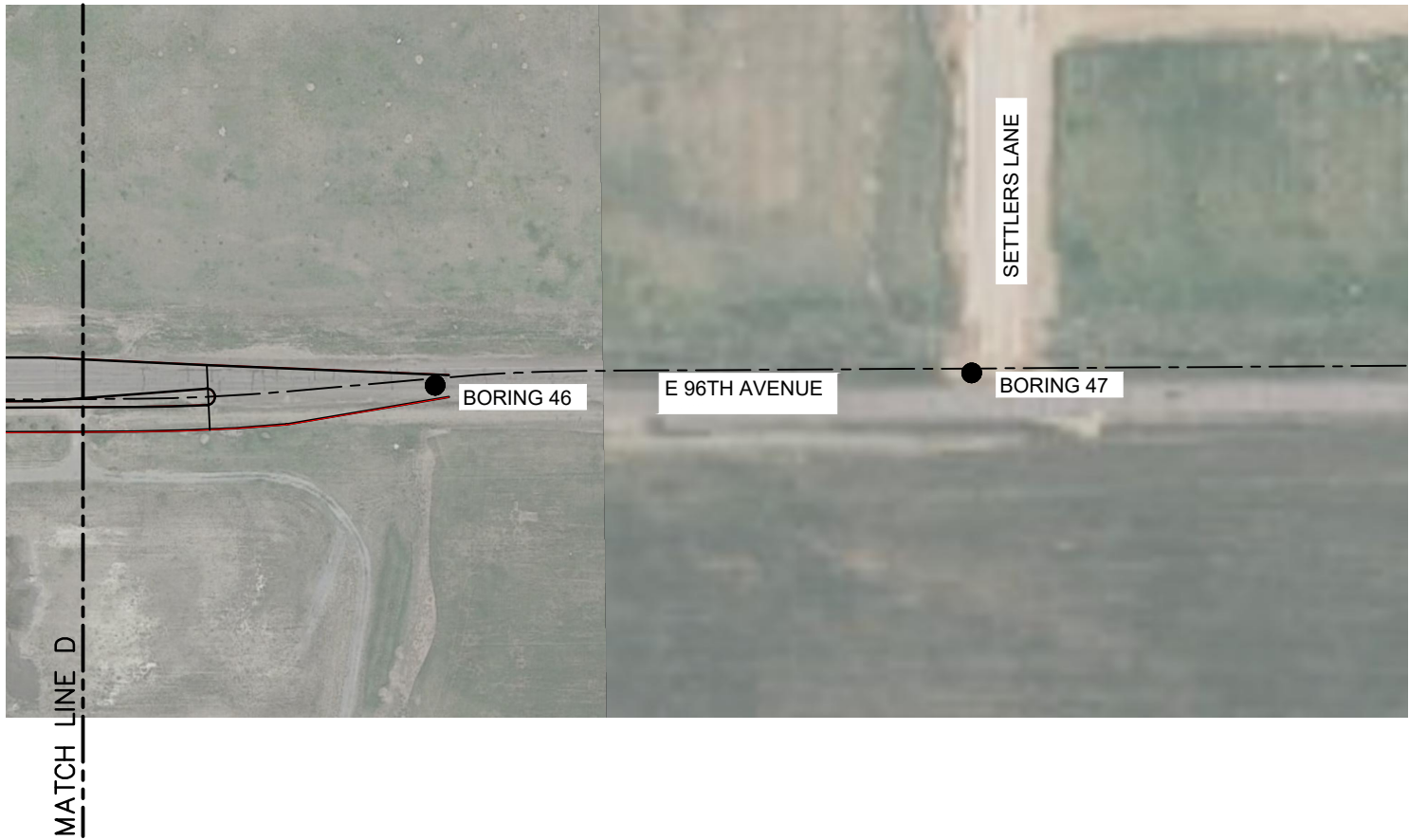
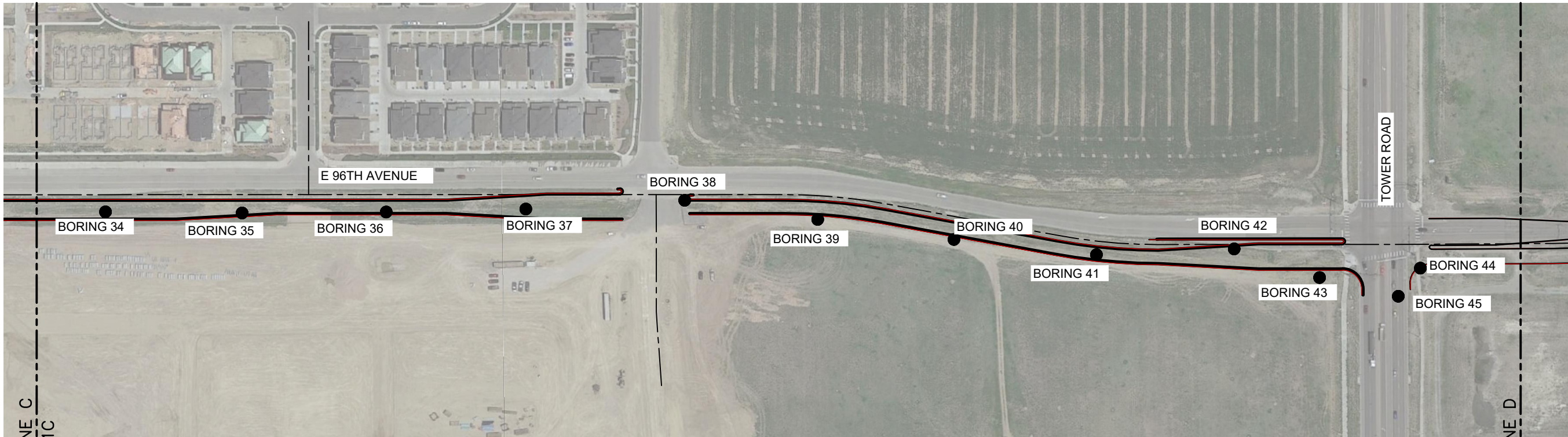
SOIL BORING PLAN
FIGURE 1C

"INSERT NAME", PE# #####

DATE
THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF "INSERT NAME", PE

PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
SHEET NAME
SB-4
SHEET NO.
14 OF 315

DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\Kumar\221798-01 to 01D.dwg USER: lkiser
DATE: Nov 08, 2024 4:49pm XREFS: 64001-C3P-X 64001-C3RM-W-X 64001-C3RM-L-X 64001 Soil Boring Border



DRAWING INFORMATION

File Name
221798-01 to 01D.dwg

Date
NOVEMBER 1, 2024

Version
Autodesk Civil 3D

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INDEX OF REVISIONS

	INDEX OF REVISIONS	DATE
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80022
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN
FIGURE 1D

"INSERT NAME", PE# #####

DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF "INSERT NAME", PE

PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

SB-5

SHEET NO.

15 OF 315

DWG: I:\p\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\Kumar\221798-02 to 05.dwg
DATE: Nov 08, 2024 4:49pm XREFS: 64001 Soil Boring Border USER: kiser

LEGEND

-  TOPSOIL.
- (12.25)  ASPHALT, THICKNESS IN INCHES SHOWN IN PARENTHESES TO LEFT OF THE LOG.
- (9)  CONCRETE, THICKNESS IN INCHES SHOWN IN PARENTHESES TO LEFT OF THE LOG.
- (4.75)  AGGREGATE BASE COURSE (ABC), THICKNESS IN INCHES SHOWN IN PARENTHESES TO LEFT OF THE LOG.
- (8.25)  CEMENT TREATED SUBGRADE, THICKNESS IN INCHES SHOWN IN PARENTHESES TO LEFT OF THE LOG.
-  FILL: LEAN CLAY (CL) WITH OCCASIONAL CLAYEY SAND (SC) AND FAT CLAY (CH) LENSES, FINE- TO COARSE-GRAINED SAND FRACTION, TRACE TO FEW GRAVELS, SLIGHTLY MOIST TO MOIST, TAN TO BROWN TO DARK BROWN TO GRAY-BROWN.
-  LEAN CLAY (CL) WITH ISOLATED FAT CLAY (CH) AND SILTY CLAY (ML-CL) LENSES, FINE- TO COARSE-GRAINED SAND FRACTION, OCCASIONAL ORGANICS IN NEAR SURFACE SOILS, STIFF TO HARD, SLIGHTLY MOIST TO MOIST TO OCCASIONALLY VERY MOIST, CALCAREOUS IN PLACES, TAN TO BROWN.
-  SILTY SAND (SM), FINE- TO COARSE-GRAINED, MEDIUM DENSE, SLIGHTLY MOIST, TAN TO BROWN.
-  CLAYEY SAND (SC) TO SILTY CLAYEY SAND (SC-SM), FINE- TO COARSE-GRAINED, LOOSE TO MEDIUM DENSE, OCCASIONAL ORGANICS IN NEAR SURFACE SOILS, SLIGHTLY MOIST, BROWN.
-  CLAYSTONE BEDROCK, FINE- TO MEDIUM-GRAINED SAND FRACTION, FIRM TO MEDIUM HARD WITH ISOLATED WEATHERED AND HARD ZONES, SLIGHTLY MOIST TO MOIST, GRAY TO GRAY-BROWN TO DARK GRAY WITH OCCASIONAL IRON OXIDATION STAINING.
-  WEATHERED CLAYSTONE BEDROCK,
-  DRIVE SAMPLE, 2-INCH I.D. CALIFORNIA LINER SAMPLE.
- 9/12 DRIVE SAMPLE BLOW COUNT. INDICATES THAT 9 BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES WERE REQUIRED TO DRIVE THE SAMPLER 12 INCHES.
- 0.6
- DEPTH TO WATER LEVEL AND NUMBER OF DAYS AFTER DRILLING MEASUREMENT WAS MADE.

NOTES

1. THE EXPLORATORY BORINGS WERE DRILLED ON FEBRUARY 16, 21, 27, AND MARCH 23 2023 WITH A 4-INCH-DIAMETER CONTINUOUS-FLIGHT POWER AUGER.
2. THE LOCATIONS OF THE EXPLORATORY BORINGS WERE LOCATED BY GPS COORDINATES OBTAINED FROM GOOGLE EARTH™ AND LOCATED IN THE FIELD WITH A HANDHELD GPS UNIT.
3. THE ELEVATIONS OF THE EXPLORATORY BORINGS WERE NOT MEASURED AND THE LOGS OF THE EXPLORATORY BORINGS ARE PLOTTED TO DEPTH.
4. THE EXPLORATORY BORING LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
4. THE LINES BETWEEN MATERIALS SHOWN ON THE EXPLORATORY BORING LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE TRANSITIONS MAY BE GRADUAL.
5. GROUNDWATER WAS NOT ENCOUNTERED IN THE BORINGS AT THE TIME OF DRILLING.
7. LABORATORY TEST RESULTS:
WC = WATER CONTENT (%) (ASTM D2216);
DD = DRY DENSITY (pcf) (ASTM D2216);
+4 = PERCENTAGE RETAINED ON NO. 4 SIEVE (ASTM D6913);
-200= PERCENTAGE PASSING NO. 200 SIEVE (ASTM D1140);
LL = LIQUID LIMIT (ASTM D4318);
PI = PLASTICITY INDEX (ASTM D4318);
NV = NO LIQUID LIMIT VALUE (ASTM D4318);
NP = NON-PLASTIC (ASTM D4318);
WSS = WATER SOLUBLE SULFATES (%) (CP-L 2103);
RES = MINIMUM LABORATORY RESISTIVITY (ohm-cm.) (ASTM G 57);
OMC = OPTIMUM MOISTURE CONTENT (%) (ASTM D698);
MDD = MAXIMUM DRY DENSITY (pcf) (ASTM D698);
R = HVEEM R-VALUE (AT 300 psi) (ASTM D2844);
A-1-b (0) = AASHTO CLASSIFICATION (GROUP INDEX) (AASHTO M 145).



DRAWING INFORMATION

File Name
221798-02 to 05.dwg

Date
NOVEMBER 1, 2024

Version
Autodesk Civil 3D

Design By

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Design by:



EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN
LEGEND AND NOTES

"INSERT NAME", PE# #####

DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF "INSERT NAME", PE

PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

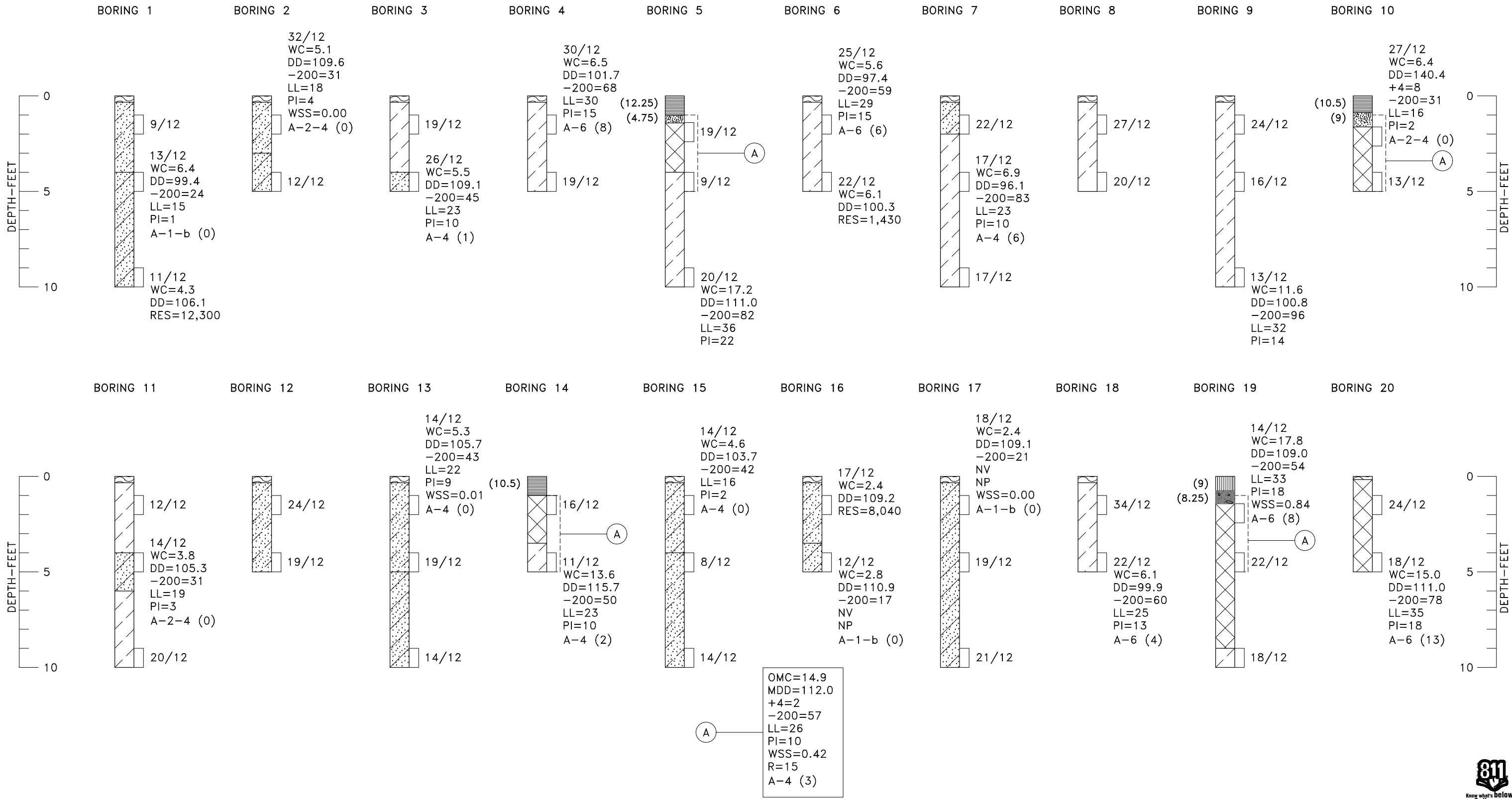
SHEET NAME

SB-6

SHEET NO.

16 OF 315

DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\Kumar\221798-02 to 05.dwg USER: kiser
DATE: Nov 08, 2024 4:49pm XREFS: 64001 Soil Boring Border



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File Name	221798-02 to 05.dwg	△	
Date	NOVEMBER 1, 2024	△	
Version	Autodesk Civil 3D	△	
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Design by:

K+A
Kumar & Associates, Inc.

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN

BORING LOGS 1-2

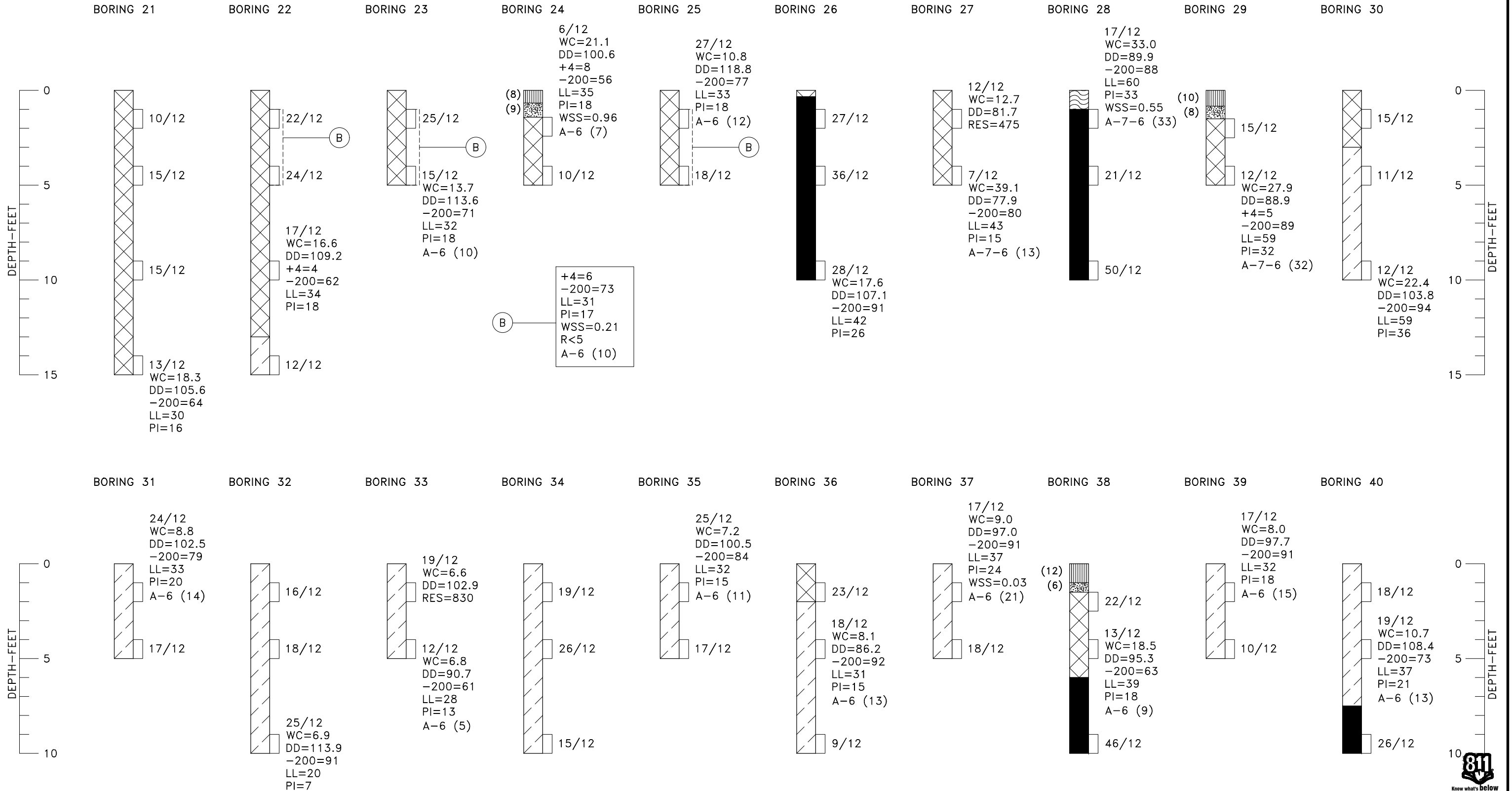
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DATE _____

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PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
SHEET NAME
SB-7
SHEET NO.
17 OF 315

DWG: I:\p01\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\Kumar\221798-02 to 05.dwg USER: kiser
DATE: Nov 08, 2024 4:49pm XREFS: 64001 Soil Boring Border



DRAWING INFORMATION

File Name
221798-02 to 05.dwg

Date
NOVEMBER 1, 2024

Version
Autodesk Civil 3D

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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN

BORING LOGS 21-40

"INSERT NAME", PE# #####

DATE

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DIRECT SUPERVISION OF "INSERT NAME", PE

PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

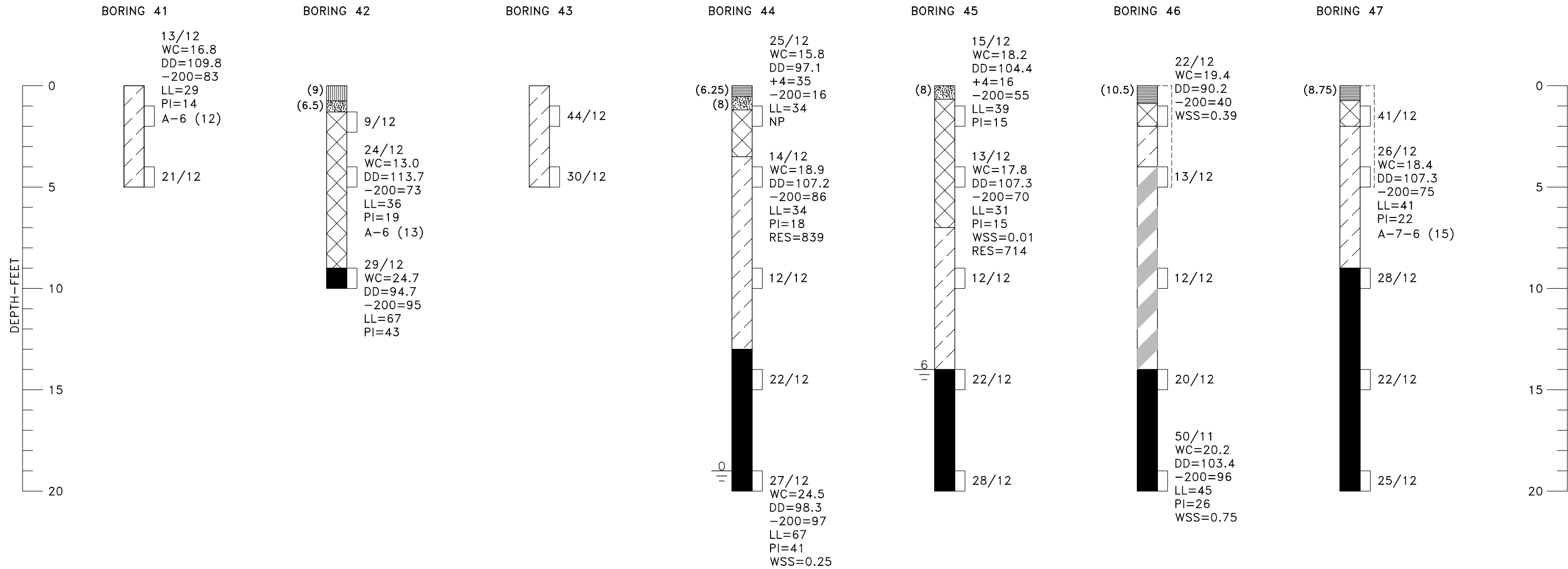
SHEET NAME

SB-8

SHEET NO.

18 OF 315

DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\Kumar\221798-02 to 05.dwg USER: kiser
DATE: Nov 08, 2024 4:49pm XREFS: 64001 Soil Boring Border



DRAWING INFORMATION

File Name
221798-02 to 05.dwg

Date
NOVEMBER 1, 2024

Version
Autodesk Civil 3D

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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SOIL BORING PLAN
BORING LOGS 41-47

"INSERT NAME", PE# #####

DATE

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PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

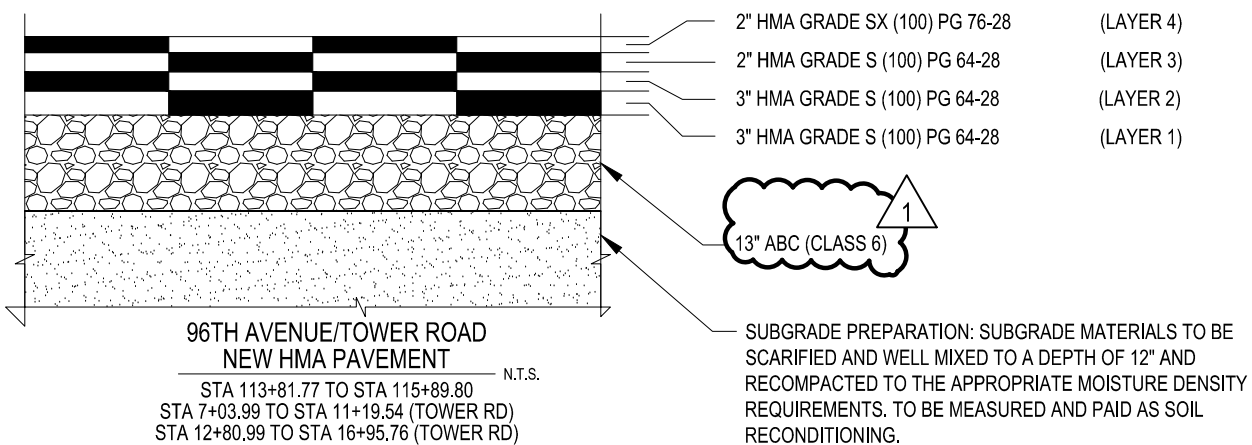
SHEET NAME

SB-9

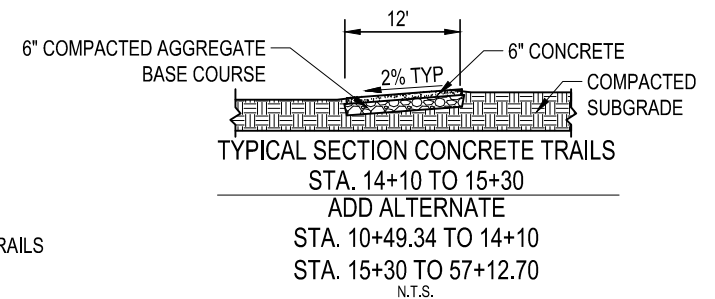
SHEET NO.

19 OF 315

1. MATCH EXISTING PAVEMENT CROSS SLOPE AND GRADES AT BEGIN AND END PROJECT.
2. BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION. SEE CDOT STANDARD M-203-2 FOR DETAILS OF CUT SLOPE TREATMENT, FLARING AND WIDENING.
3. ASPHALT SAW CUTTING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE BID FOR ASPHALT REMOVAL.
4. SEE LANDSCAPE PLANS FOR DETAILS OF MEDIAN LANDSCAPING.



- SUBGRADE COMPACTION 95% STANDARD PROCTOR DENSITY
- COLOR - STANDARD GREY (IF COLORED CONCRETE, COLOR TO BE INTERGAL
- CLASS B
- 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS
- FIBER MESH REINFORCEMENT
- AIR - 5% - 7%
- SLUMP - 4" MAXIMUM
- MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC FLOW
- CROSS SLOPE 2% MAX.
- SAW CUT CONTROL JOINTS TO $\frac{1}{3}$ DEPTH OF CONCRETE ON ALL WALKS AND TRAILS



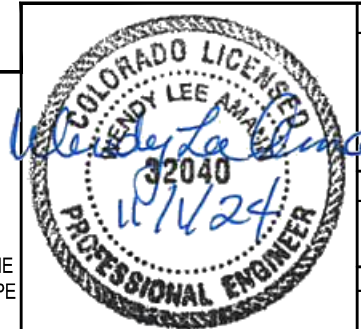
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Wendy Lee Amann
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

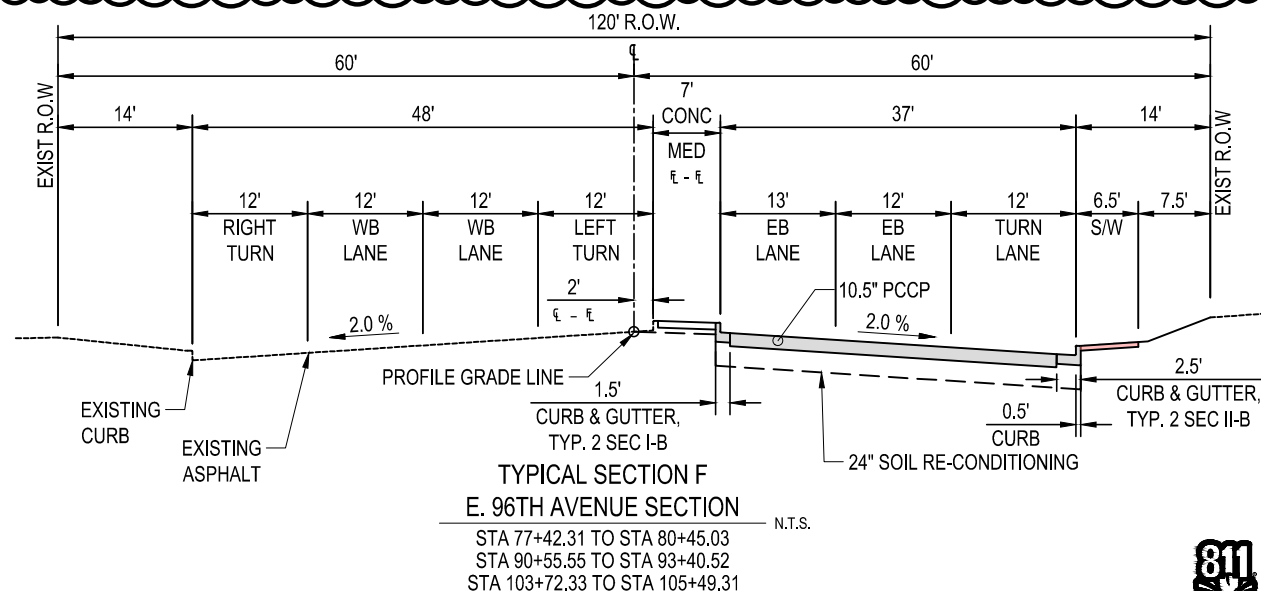
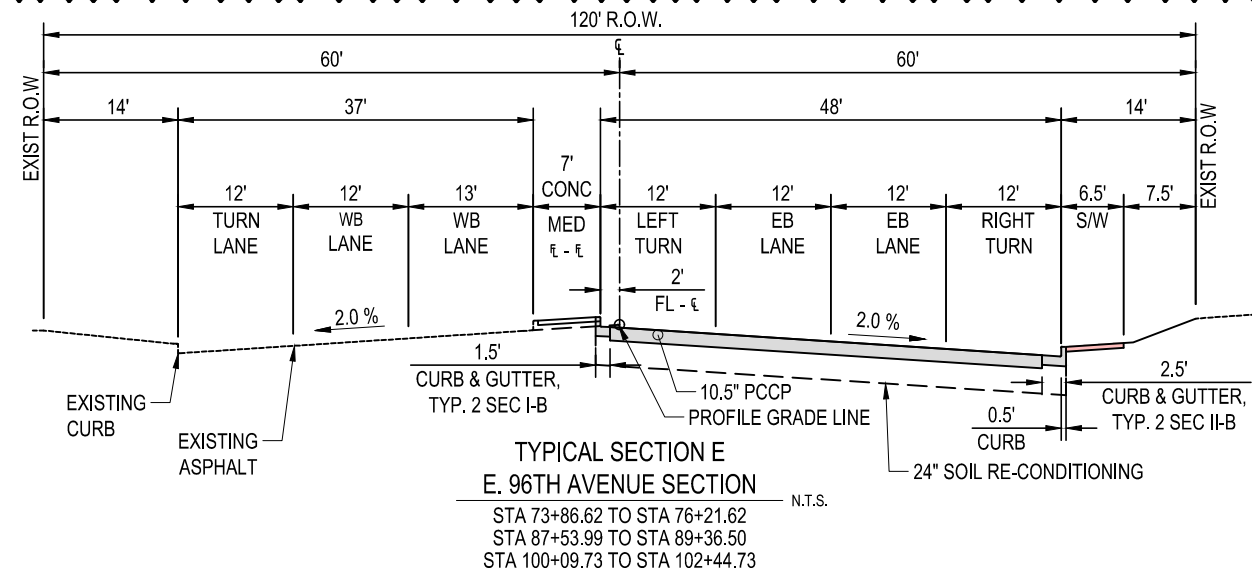
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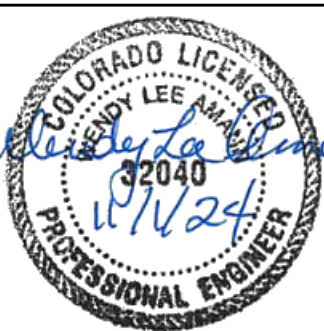


PROJECT NO
MMERCE CITY 2022-18-PW
UITT-ZOLLARS <u>R315640.01</u>
SHEET NAME
RY-1
SHEET NO.
0 OF 315

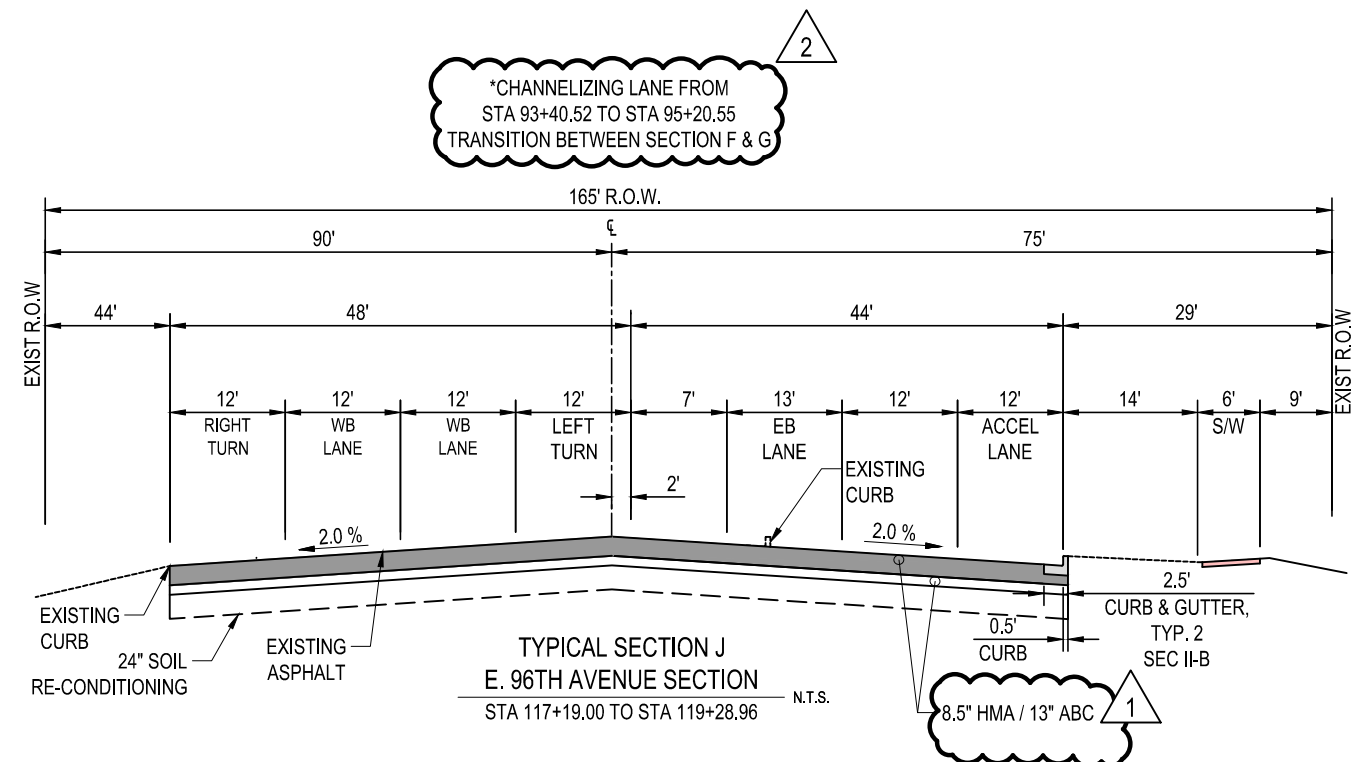
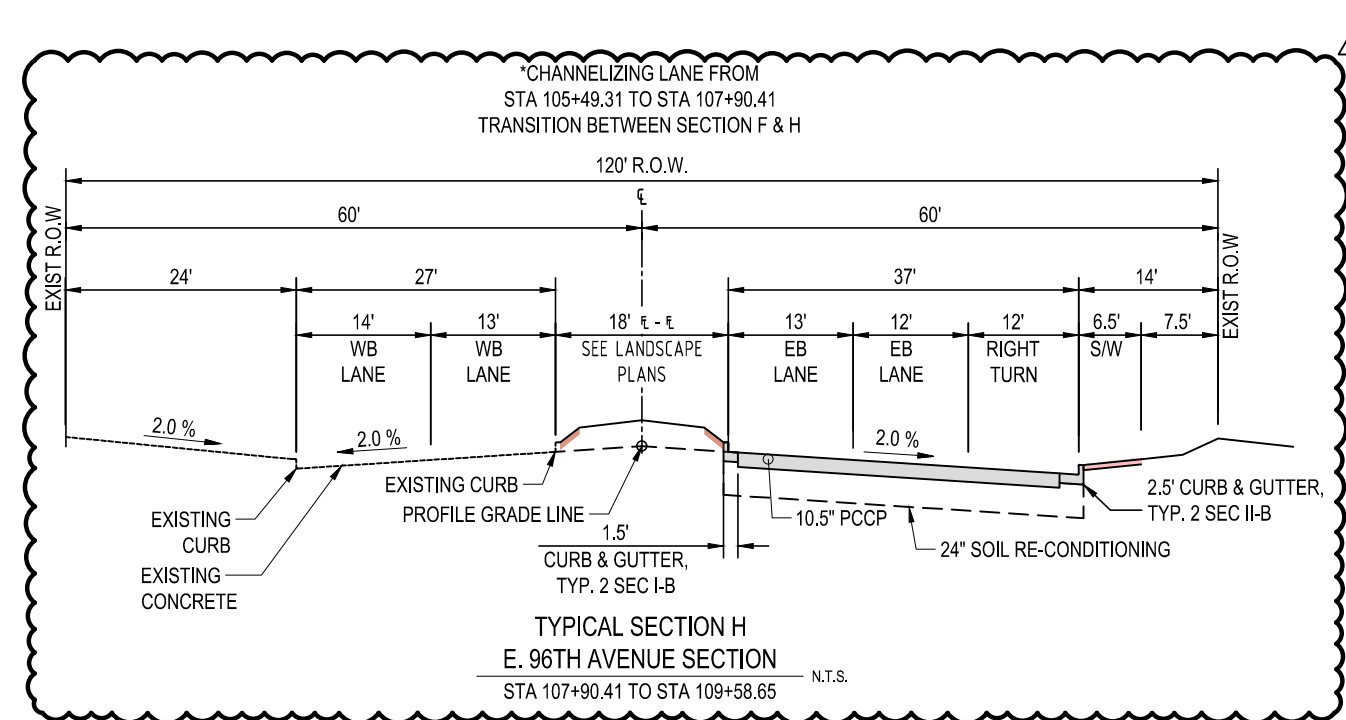
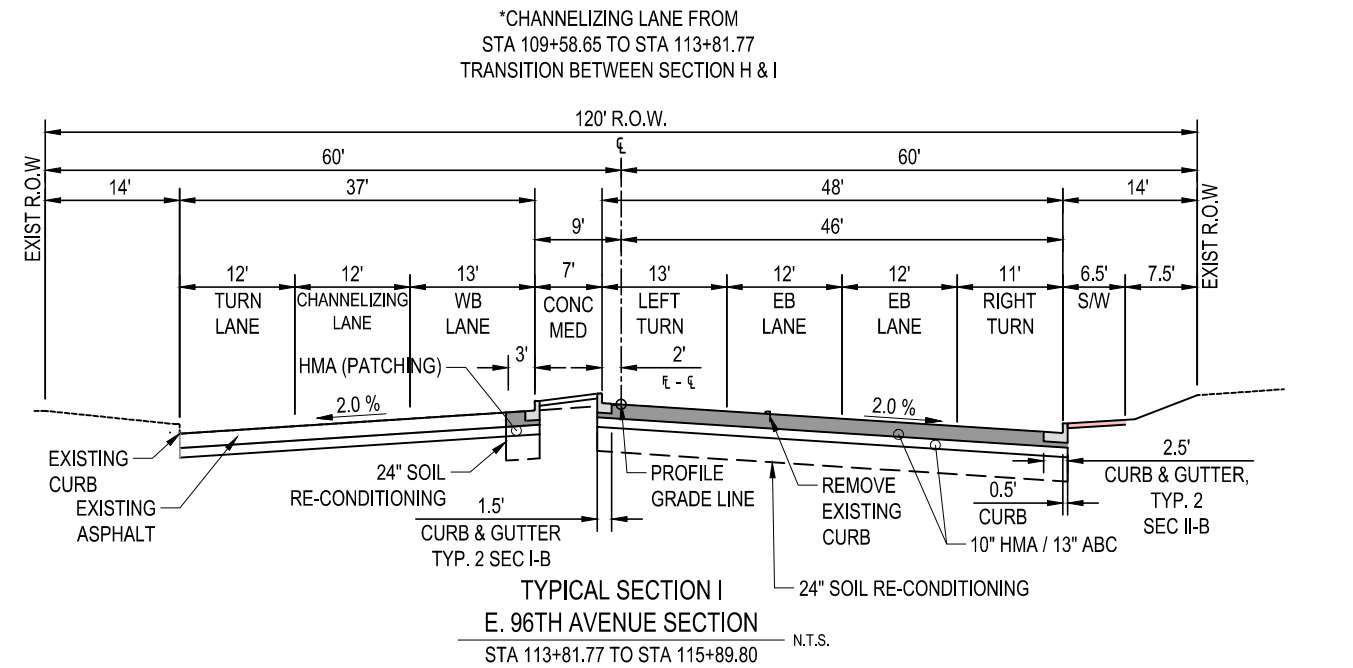
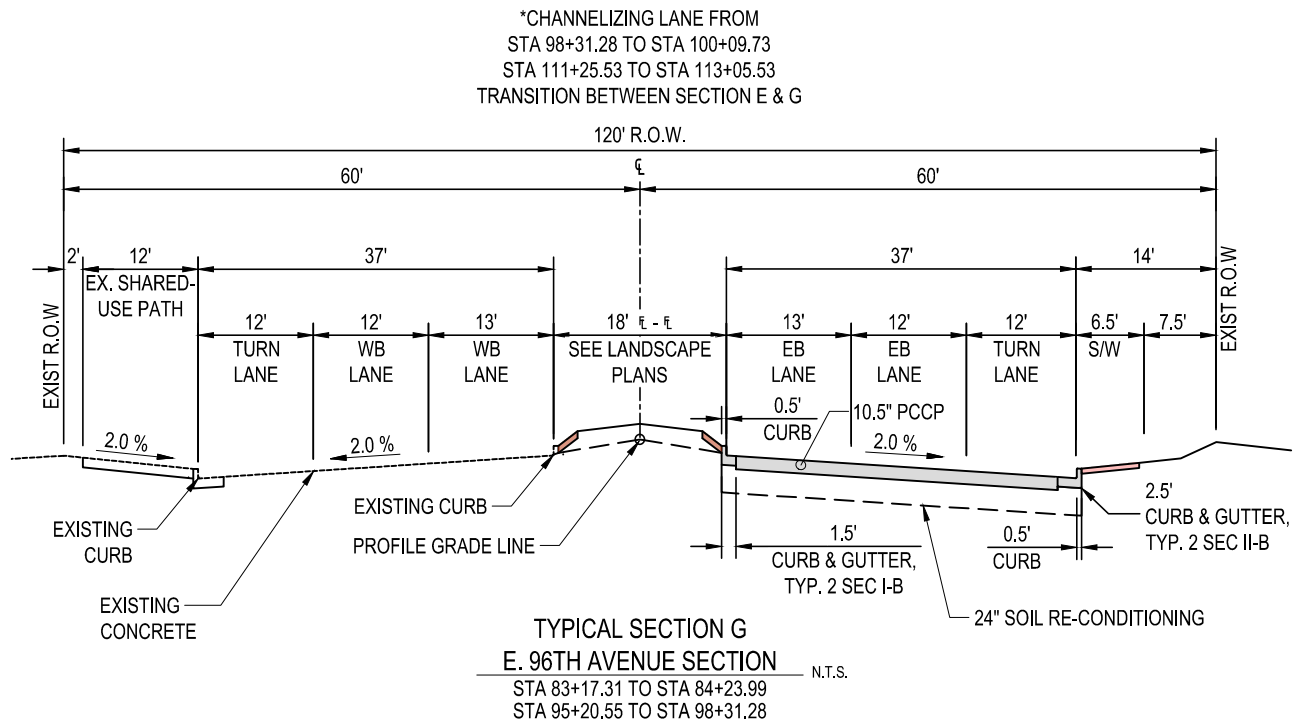
*CHANNELIZING LANE FROM
STA 17+89.64 TO STA 19+69.64
STA 30+38.36 TO STA 32+18.36
STA 44+60.45 TO STA 46+40.47
TRANSITION BETWEEN SECTION B & C

*CHANNELIZING LANE FROM
STA 81+37.31 TO STA 83+17.31
TRANSITION BETWEEN SECTION D & F



	PROJECT NO
	COMMERCE CITY 2022-18-PW
	HUITT-ZOLLARS R315640.01
	SHEET NAME
	RY-2
	SHEET NO.
	21 OF 315

DWG: I:\proj\31584\01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD\Sheets\86th_RY64001-C-RY-1.dwg USER: Mser
DATE: Nov 06, 2024 4:30pm XREFS: 2022129 Ownership Base Map (NAD83) 564001 Civil Border 64001-C-SP-X (Phase Striping) 64001-C-SP-X (Striping) 64001-C-UT-X



NOTE:
SURFACE OF ALL NEW 10.5" PCCP ROADWAY TO BE FINISHED WITH 1" UNIFORM LONGITUDINAL TINING GROOVES. DIAMOND GRINDING EQUIPMENT SHALL BE USED TO CUT 1/8" GROOVES (SIMILIAR TO EXISITNG PCCP EAST OF NUCLEA ST.). COST OF DIAMOND GRINDING TO BE INCLUDED IN COST OF PCCP.

DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name	64001-C-RY-1.dwg	1 BID ADDENDUM	08/09/2024
Date	NOVEMBER 1, 2024	2 BID ADDENDUM	08/22/2024
Version	Autodesk Civil 3D		
Design By	LJK		
Checked By	RCR		

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Suite 900
Denver, Co 80202
PH 303-740-7325
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY TYPICAL SECTIONS

Wendy Amann, PE# 32040
NOVEMBER 1, 2024
DATE
THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE

COLORADO LICENSED PROFESSIONAL ENGINEER WENDY LEE AMANN 32040

PROJECT NO	COMMERCE CITY 2022-18-PW
SHEET NAME	HUITT-ZOLLARS R315640.01
SHEET NO.	RY-3
	22 OF 315

DWG: I:\proj\R3156401 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\6th SQ\64001-C-SQ-1.dwg
DATE: Dec 03, 2024 10:01 am XREFS: 64001 Civil Border USER: kiser

SUMMARY OF APPROXIMATE QUANTITIES

BID SCHEDULE NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTAL		ROADWAY		EB BRIDGE		WB BRIDGE		LA	
				PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
1	201-00000	CLEARING AND GRUBBING	LS	1		1							
2	202-00019	REMOVAL OF INLET	EACH	2		2							
3	202-00035	REMOVAL OF PIPE	LF	12		12							
4	202-00037	REMOVAL OF END SECTION	EACH	2		2							
5	202-00200	REMOVAL OF SIDEWALK	SY	195		195							
6	202-00203	REMOVAL OF CURB AND GUTTER	LF	3,009		3,009							
7	202-00206	REMOVAL OF CONCRETE CURB RAMP	SY	138		138							
8	202-00210	REMOVAL OF CONCRETE PAVEMENT	SY	1,229		1,229							
9	202-00220	REMOVAL OF ASPHALT MAT	SY	14,247		14,247							
11	202-00453	REMOVAL OF PORTIONS OF PRESENT STRUCTURE (CLASS 2)	SY	5						5			
12	202-00458	REMOVAL OF PORTIONS OF PRESENT STRUCTURE (HYDRODEMOLITION) (FAST TRACK)	SY	327						327			
13	202-00502	REMOVAL OF PORTIONS OF PRESENT STRUCTURE	CY	1						1			
14	202-00750	REMOVAL OF LUMINAIRE	EACH	4		4							
15	202-00810	REMOVAL OF GROUND SIGN	EACH	10		10							
16	202-00821	REMOVAL OF SIGN PANEL	EACH	9		9							
17	202-00831	REMOVAL OF TRAFFIC SIGNAL HEAD	EACH	40		40							
18	202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	EACH	11		11							
19	202-00842	REMOVAL OF MAST ARM	EACH	2		2							
20	202-00845	REMOVAL OF TRAFFIC SIGNAL CONTROLLER	EACH	1		1							
21	202-00860	REMOVAL OF PEDESTRIAN PUSH BUTTON	EACH	9		9							
22	202-00888	REMOVAL OF VIDEO DETECTION SYSTEM	EACH	9		9							
23	202-00890	REMOVAL OF SPAN WIRE CABLE	LF	758		758							
25	202-04000	PLUG STRUCTURE	EACH	2		2							
24	202-04007	PLUG CULVERT	LF	720		720							
26	203-00015	UNCLASSIFIED EXCAVATION (CHANNEL GRADING)	CY	3,986		3,986							
27	203-00060	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY	27,614		27,614							
28	203-01597	POTHOLING	HOURL	100		100							
29	206-00000	STRUCTURE EXCAVATION	CY	589				589					
30	206-00360	MECHANICAL REINFORCEMENT OF SOIL	CY	589				589					
31	208-00002	EROSION LOG TYPE 1 (12 INCH)	LF	4,577		4,577							
32	208-00020	SILT FENCE	LF	27,537		27,537							
33	208-00035	AGGREGATE BAG	LF	90		90							
34	208-00041	ROCK CHECK DAM	EACH	20		20							
35	208-00051	STORM DRAIN INLET PROTECTION (TYPE 1)	LF	673		673							
36	208-00070	VEHICLE TRACKING PAD	EACH	2		2							
37	208-00103	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HOURL	100		100							
38	208-00105	REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HOURL	100		100							
39	208-00106	SWEEPING (SEDIMENT REMOVAL)	HOURL	500		500							
40	208-00207	EROSION CONTROL MANAGEMENT	DAY	340		340							
41	210-00050	RESET FIRE HYDRANT	EACH	1		1							
42	210-00815	RESET SIGN PANEL	EACH	8		8							
43	210-00827	RESET PULL BOX	EACH	14		14							
44	210-00831	RESET TRAFFIC SIGNAL HEAD	EACH	3		3							
46	210-04050	ADJUST VALVE BOX	EACH	2		2							
47	212-00006	SEEDING (NATIVE)	ACRE	7		6.59							
48	212-00032	SOIL CONDITIONING	ACRE	7		6.59							
49	212-00100	TREE RETENTION AND PROTECTION	LS	1		1							
50	304-06000	AGGREGATE BASE COURSE (CLASS 6)	TON	16,257		16,257							
51	304-08000	AGGREGATE BASE COURSE (SHOULDER MATERIAL)	TON	1,819		1,819							
52	306-01000	RECONDITIONING	SY	46,954		46,954							
53	403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT)	SY	2,173		2,173							
54	403-33851	HOT MIX ASPHALT (GRADING S) (100) (PG 64-28)	TON	8,138		8,138							
55	403-34871	HOT MIX ASPHALT (GRADING SX) (100) (PG 76-28)	TON	4,260		4,260							
56	408-01100	JOINT SEALANT	LF	73				73					
57	412-01050	CONCRETE PAVEMENT (10-1/2 INCH)	SY	22,017		22,017							
58	503-00018	DRILLED SHAFT (18 INCH)	LF	24		24							
59	503-00042	DRILLED SHAFT (42 INCH)	LF	84		84							
60	503-00048	DRILLED SHAFT (48 INCH)	LF	180		180							
61	506-00209	RIPRAP (9 INCH)	CY	181		181							
62	509-00010	STRUCTURAL STEEL (SPECIAL)	LB	5,669				5,669					
63	518-01004	BRIDGE EXPANSION DEVICE (0-4 INCH)	LF	73				73					
64	518-03000	SAWING AND SEALING BRIDGE JOINT	LF	54						54			
65	519-03035	PLACE THIN BONDED OVERLAY (POLYESTER CONCRETE)	SY	687				360		327			
66	519-03055	FURNISH THIN BONDED OVERLAY (POLYESTER CONCRETE)	SY	441				203		238			
67	601-01025	CONCRETE CLASS B (MISCELLANEOUS)	CY	59		59							
68	601-03040	CONCRETE CLASS D (BRIDGE)	CY	231				231					
69	601-03057	CONCRETE CLASS DR	CY	1						1			
70	602-00000	REINFORCING STEEL	LB	105		105							
71	602-00020	REINFORCING STEEL (EPOXY COATED)	LB	33,327				33,277		50			
72	603-01125	12 INCH REINFORCED CONCRETE PIPE	LF	27		27							
73	603-01185	18 INCH REINFORCED CONCRETE PIPE	LF	245		245							
74	603-01245	24 INCH REINFORCED CONCRETE PIPE	LF	918		918							
75	603-05012	12 INCH REINFORCED CONCRETE END SECITON	EACH	1		1							
76	603-05024	24 INCH REINFORCED CONCRETE END SECTION	EACH	1		1							
77	604-19105	INLET TYPE R L5 (5 FOOT)	EACH	1		1							
78	604-19205	INLET TYPE R L10 (5 FOOT)	EACH	2		2							

DRAWING INFORMATION

File Name
64001-C-SQ-1.dwg

Date
JULY 12, 2024

Version
Autodesk Civil 3D

Design By

Checked By



1	BID ADDENDUM	08/09/2024
2	BID ADDENDUM	08/22/2024
3	ISSUED FOR CONSTRUCTION	11/01/2024

DATE

Design for:


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80022
PH 303-289-3600
www.c3gov.com

Design by:


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Denver, Co 80202
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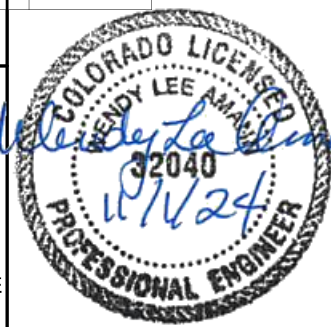
EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SUMMARY OF APPROXIMATE QUANTITIES


WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

SQ-1

SHEET NO.

24 OF 315



DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\6th SQ\64001-C-SQ-2.dwg
DATE: Dec 03, 2024 10:04am XREFS: 64001 Civil Border USER: kiser

BID SCHEDULE NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS		ROADWAY		EB BRIDGE		WB BRIDGE		LA	
				PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
79	604-19210	INLET TYPE R L10 (10 FOOT)	EACH	1		1							
80	604-19305	INLET TYPE R L15 (5 FOOT)	EACH	3		3							
81	604-19310	INLET TYPE R L15 (10 FOOT)	EACH	2		2							
82	604-30005	5' DIA. STD. STORM MANHOLE SLAB BASE (6 FOOT)	EACH	1		1							
83	604-30010	5' DIA. STD. STORM MANHOLE SLAB BASE (10 FOOT)	EACH	3		3							
84	604-30015	5' DIA. STD. STORM MANHOLE SLAB BASE (15 FOOT)	EACH	2		2							
86	604-30020	5' DIA. STD. STORM MANHOLE SLAB BASE (20 FOOT)	EACH	2		2							
87	606-00301	GUARDRAIL TYPE 3 16-3 POST SPACING	LF	114		114							
88	606-01380	TRANSITION TYPE 3H	EACH	4		4							
89	606-01402	TRANSITION TYPE BR10B-GR3	EACH	4				4					
90	606-02005	END ANCHORAGE (FLARED)	EACH	6		6							
91	606-11035	BRIDGE RAIL TYPE 10 (MASH)	LF	120				120					
92	606-11036	BRIDGE RAIL TYPE 10 (MASH) (SPECIAL)	LF	199				199					
92	608-00006	CONCRETE SIDEWALK (6 INCH) (TRAIL)	SY	160		160							
93	608-00006	CONCRETE SIDEWALK (6 INCH)	SY	3,855		3,855							
94	608-00010	CONCRETE CURB RAMP	SY	112		112							
95	609-21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF	14,462		14,462							
96	609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF	12,696		12,696							
97	613-00075	3/4 INCH ELECTRICAL CONDUIT	LF	360				360					
98	613-00200	2 INCH ELECTRICAL CONDUIT	LF	240				240					
99	613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	1,212		1,212							
100	613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	3,278		3,278							
101	613-01200	2 INCH ELCTRICAL CONDUIT (PLASTIC)	LF	480		480							
102	613-01300	3 INCH ELCTRICAL CONDUIT (PLASTIC)	LF	260		260							
103	613-07034	PULL BOX (17"X30"X12")	EACH	4		4							
104	613-07034	PULL BOX (24"X36"X18")	EACH	3		3							
105	613-07039	PULL BOX (30"X48"X18")	EACH	7		7							
105	613-10000	WIRING	LS	1		1							
106	613-13000	LUMINAIRE (LED) (SPECIAL)	EACH	14		14							
107	613-50109	METER POWER PEDESTAL	EACH	1		1							
108	614-00019	LIGHTED STREET NAME SIGN (INSTALL ONLY)	EACH	2		2							
109	614-00011	SIGN PANEL (CLASS 1)	SF	192		192							
110	614-00214	STEEL SIGN POST (1.75X1.75 INCH TUBING)	LF	401		401							
111	614-01738	STEEL SIGN GROUND STUB BASE (36 INCH)	EACH	27		27							
112	614-10130	ILLUMINATED SIGN (STREET NAME BLADES)	EACH	12		12							
113	614-70150	PEDESTRIAN SIGNAL FACE (16)	EACH	20		20							
114	614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	39		39							
115	614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EACH	30		30							
116	614-72854	TRAFFIC SIGNAL CONTROLLER (M60)	EACH	1		1							
117	614-72866	FIRE PREEMPTION UNIT AND TIMER	EACH	4		4							
118	614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FOOT MAST ARM)	EACH	2		2							
119	614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FOOT MAST ARM)	EACH	4		4							
120	614-81160	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-60 FOOT MAST ARM)	EACH	3		3							
121	614-81165	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-65 FOOT MAST ARM)	EACH	3		3							
122	614-81170	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-70 FOOT MAST ARM)	EACH	2		2							
123	614-84000	TRAFFIC SIGNAL PEDESTAL POLE STEEL	EACH	2		2							
124	614-86800	UNINTERRUPTED POWER SUPPLY	EACH	4		4							
125	614-87020	OPTICAL TRANSCEIVER	EACH	6		6							
126	614-87320	CLOSED CIRCUIT TELEVISION	EACH	3		3							
127	614-87336	MANAGED SWITCH (RUGGED COM OR APPROVED EQUIV)	EACH	2		2							
128	614-87702	ETHERNET RADIO (PAIR)	EACH	1		1							
129	614-87704	ETHERNET RADIO (SINGLE CLIENT)	EACH	2		2							
130	618-01142	PRESTRESSED CONCRETE I (CBT42)	LF	392				392					
131	620-00002	FIELD OFFICE (CLASS 2)	EACH	1		1							
132	620-00020	SANITARY FACILITY	EACH	4		4							
133	623-09900	SPRINKLER SYSTEM (REPAIR)	LS	1		1							
134	625-00000	CONSTRUCTION SURVEYING	LS	1		1							
135	626-00000	MOBILIZATION	LS	1		1							
136	627-00005	EPOXY PAVEMENT MARKING	GAL	121		121							
137	627-30205	THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL)	SF	2,458		2,458							
138	627-30210	THERMOPLASTIC PAVEMENT MARKING (XWALK STOP LINE)	SF	2,473		2,473							
139	629-01300	SURVEY MONUMENT (TEMPORARY)	EACH	2		2							
140	630-00000	FLAGGING	HOUR	2,000		2,000							
141	630-00007	TRAFFIC CONTROL INSPECTION	DAY	340		340							
142	630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	340		340							
143	630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	60		60							
144	630-80353	VERTICAL PANEL (WITH LIGHT) (FLASHING)	EACH	300		300							
145	630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	6		6							
146	630-80360	DRUM CHANNELIZING DEVICE	EACH	300		300							
147	630-80370	BARRIER (TEMPORARY)	EACH	5		5							
148	630-85010	IMPACT ATTENUATOR (TEMPORARY)	EACH	0		0							
149	900-00100	PEDESTRIAN UNDERPASS	DOLLAR	\$1,550,000.00		\$1,550,000.00							

BID SCHEDULE NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTAL		ROADWAY		EB BRIDGE		WB BRIDGE		LA	
				PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
153	613-01400	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	11,000		11,000							
154	613-07034	PULL BOX (24"X36"X18")	EACH	25		25							
155	613-07040	PULL BOX (30"X48"X18")	EACH	5		5							
156		MAST ARM SIGN R10-11C	EACH	1		1							

DRAWING INFORMATION

File Name	BID ADDENDUM
64001-C-SQ-2.dwg	
Date	BID ADDENDUM
JULY 12, 2024	
Version	ISSUED FOR CONSTRUCTION
Autodesk Civil 3D	
Design By	
Checked By	

INDEX OF REVISIONS		DATE
1	BID ADDENDUM	08/09/2024
2	BID ADDENDUM	08/22/2024
3	ISSUED FOR CONSTRUCTION	11/01/2024

Design for:	Design by:
 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com

EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD
SUMMARY OF APPROXIMATE QUANTITIES

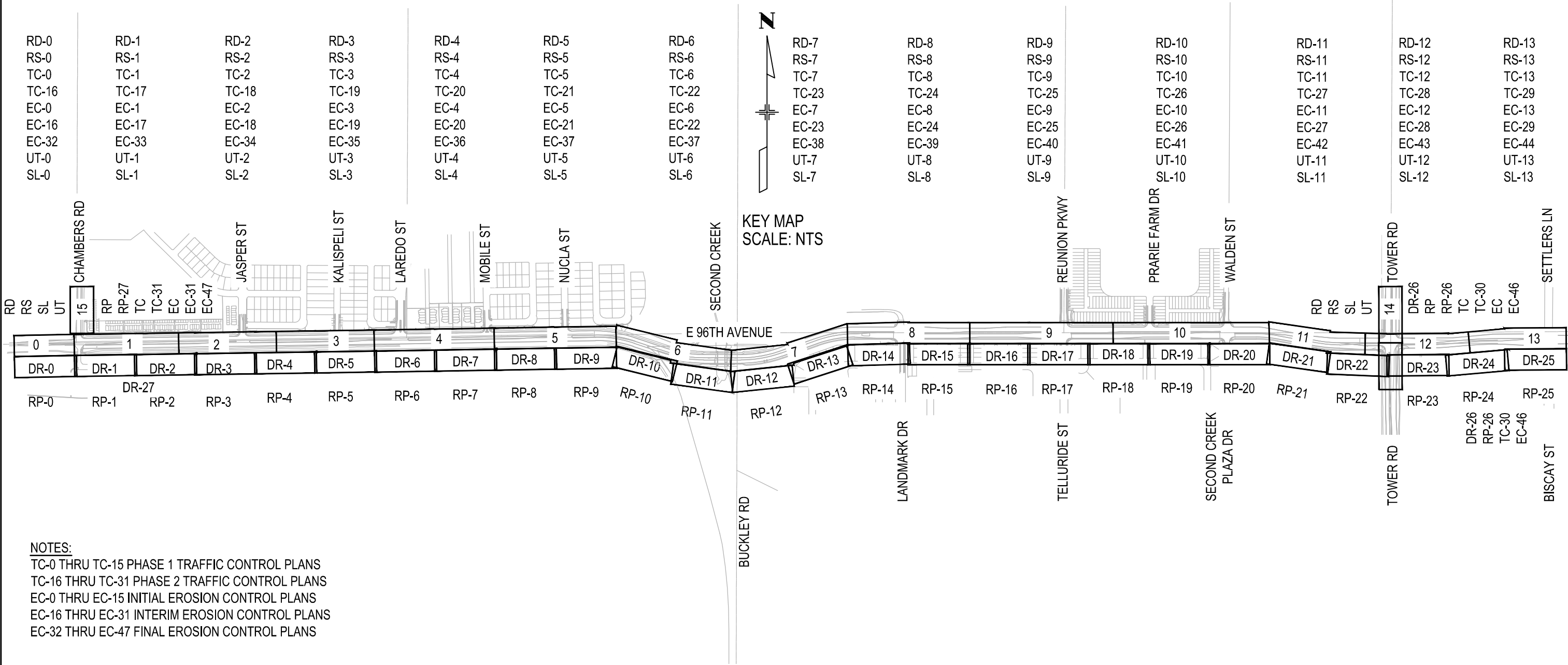
 WENDY AMANN, PE# 32040
NOVEMBER 1, 2024 DATE
THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO
COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS R315640.01
SHEET NAME
SQ-2
SHEET NO.
25 OF 315



DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\66in KM164001-C-KM-0.dwg USER: kiser
DATE: Nov 08, 2024 4:51pm XREFS: 564001 Civil Border



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File Name	64001-C-KM-0.dwg
Date	NOVEMBER 1, 2024
Version	Autodesk Civil 3D
Design By	SAB
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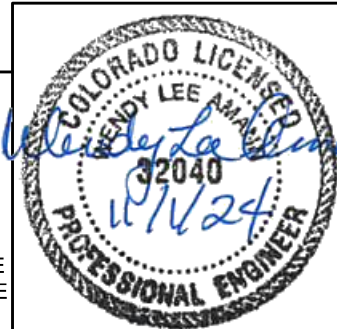
EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

PLAN KEY MAP LAYOUT


WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

KM-1

SHEET NO.

26 OF 315



DWG: I:\proj\315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\6th RD-0.1\64001-C-RD-01.dwg USER: lkleer
DATE: Nov 08, 2024 4:51pm XREFS: 64001 Civil Border

TABULATION OF REMOVAL ITEMS									
		202-00200	202-00203	202-00206	202-00210	202-00220	202-00240		
			REMOVAL	REMOVAL			REMOVAL		
			OF	OF	REMOVAL	REMOVAL	OF		
		REMOVAL	CURB	CONCRETE	OF	OF	ASPHALT		
		OF	AND	CURB	CONCRETE	ASPHALT	MAT		
		SIDEWALK	GUTTER	RAMP	PAVEMENT	MAT	(PLANING)	*SAW CUT	
LOCATION	SIDE	SY	LF	SY	SY	SY	SY	LF	MISCELLANEOUS
E 96TH AVE									
0+00 TO 4+00						23		108	
4+00 TO 14+00	RT & LT		176	9		1,595	1,651	574	
14+00 TO 24+00	RT & LT					2,109	3,358	1,000	
24+00 TO 34+00	RT & LT					2,090	3,333	1,000	
34+00 TO 44+00	RT & LT					2,084	3,342	1,000	
44+00 TO 54+00	RT & LT				390	1,591	2,556	1,004	
54+00 TP 64+00	RT				104	883		133	
64+00 TO 74+00	RT								
74+00 TO 84+00	RT		564		169			631	
84+00 TO 94+00	RT		289		157			450	
94+00 TO 104+00	RT		218	7	186			438	
104+00 TO 114+00	RT & LT		184		215	44		183	
114+00 TO 124+00	RT & LT	109	444	121		3,082		569	
124+00 TO 129+00	RT & LT					198		64	
TOWER RD									
7+00 TO 17+00	RT & LT	86	1,134		8	301		1,191	
CHAMBERS RD									
0+00 TO 5+00	RT & LT					401	611	260	
TOTAL		195	3,009	137	1,229	14,401	14,851	8,605	
*FOR INFORMATION ONLY (NOT TO BE MEASURED OR PAID FOR SEPARATELY)									

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File Name
64001-C-RD-01.dwg

Date
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1 BID ADDENDUM	08/09/2024
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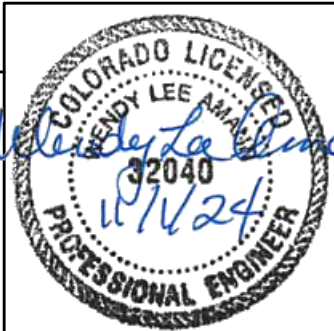
EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

TABULATION OF ROADWAY REMOVAL ITEMS


WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
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PROJECT NO
COMMERCE CITY
2022-18-PW

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R315640.01

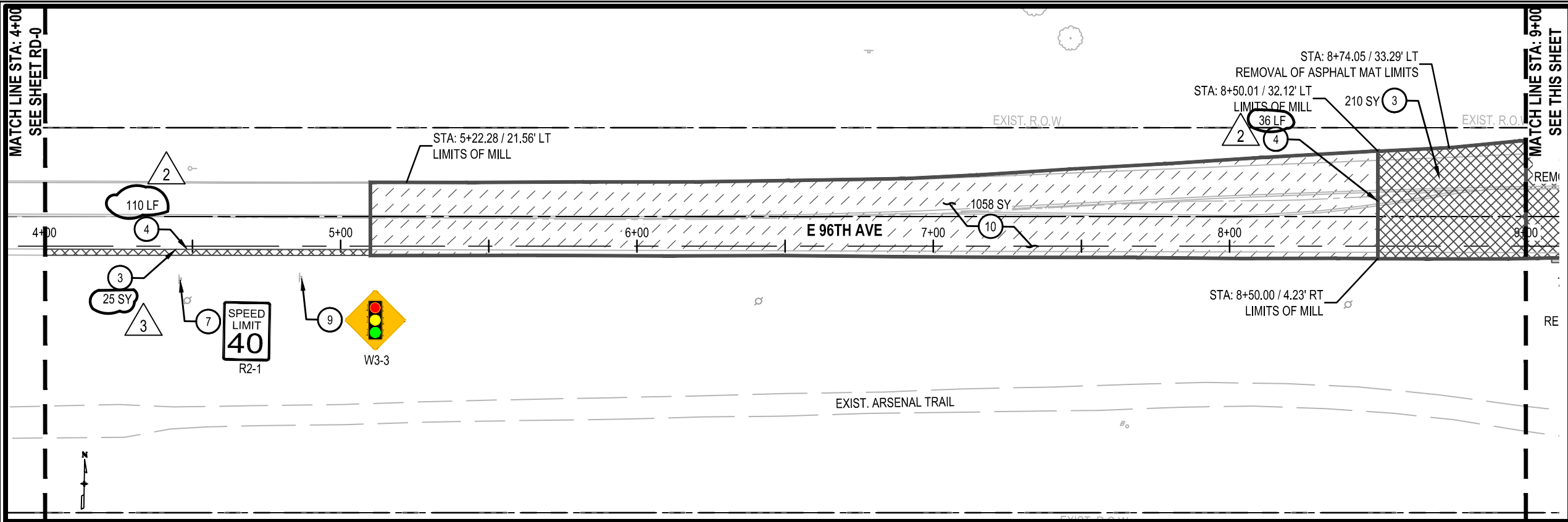
SHEET NAME
RD-0.1

SHEET NO.
27 OF 315

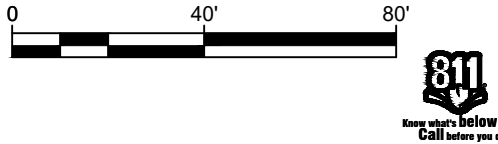
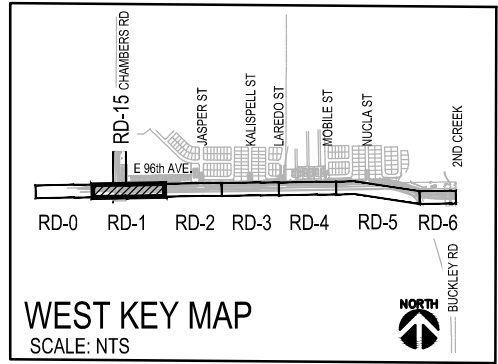
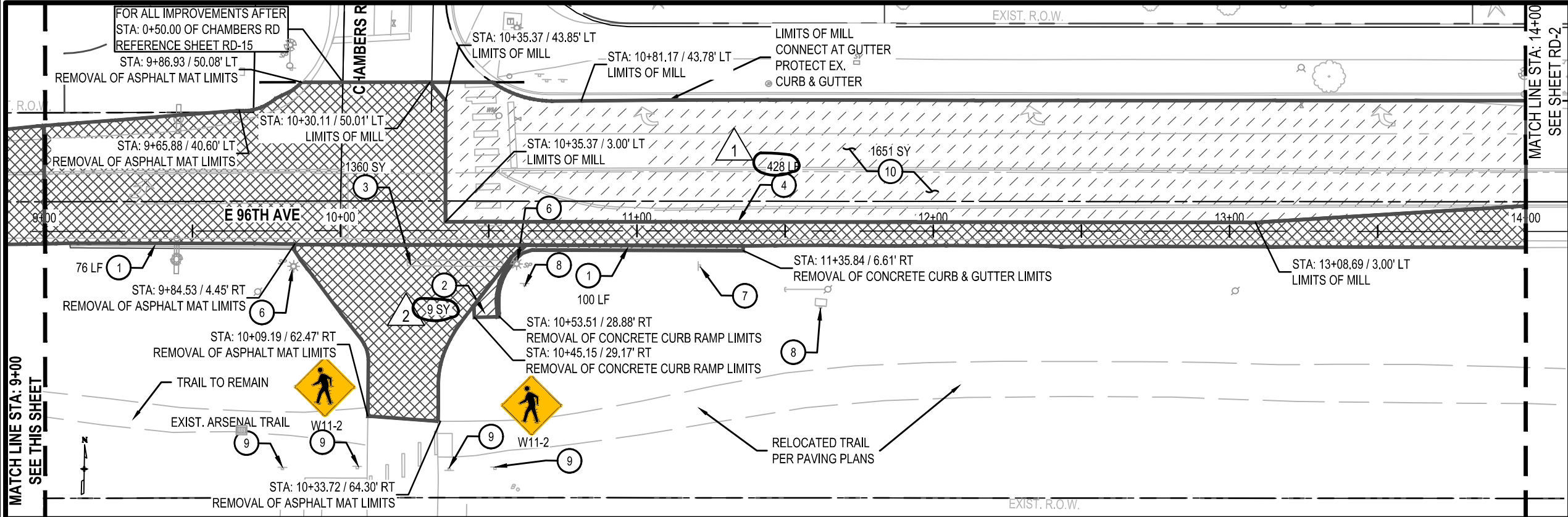


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 XREFS: 664001 Civil Border 64001-C-SP-X 64001-YF-BM-X 64001-Key Notes 2022\129 Ownership Base Map Anno 64001-C-SP-X(Striping) 64001-C-AMM-WX 64001-VJUT-X
 DATE: Nov 06, 2024 4:51pm



- KEYNOTES
- 1 REMOVAL OF CURB AND GUTTER
 - 2 REMOVAL OF CONCRETE CURB RAMP
 - 3 REMOVAL OF ASPHALT MAT
 - 4 SAW CUT LINE
 - 5 REMOVAL OF CONCRETE PAVEMENT
 - 6 REMOVE OF TRAFFIC SIGNAL POLE
 - 7 REMOVE SIGN AND POLE
 - 8 REMOVE WARNING MARKER
 - 9 SIGN AND POLE TO REMAIN IN PLACE
 - 10 MILL EXISTING ROADWAY
 - 11 REMOVAL OF SIDEWALK
- LEGEND
- REMOVE EXISTING ASPHALT PAVEMENT
 - REMOVE EXISTING CONCRETE PAVEMENT
 - MILL EXISTING ROADWAY



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name	64001-C-RD-1.dwg	1 BID ADDENDUM	08/09/2024
Date	NOVEMBER 1, 2024	2 BID ADDENDUM	08/22/2024
Version	Autodesk Civil 3D		
Design By			
Checked By			

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Suite 900
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY REMOVAL PLAN

STA 4+00 TO STA 14+00

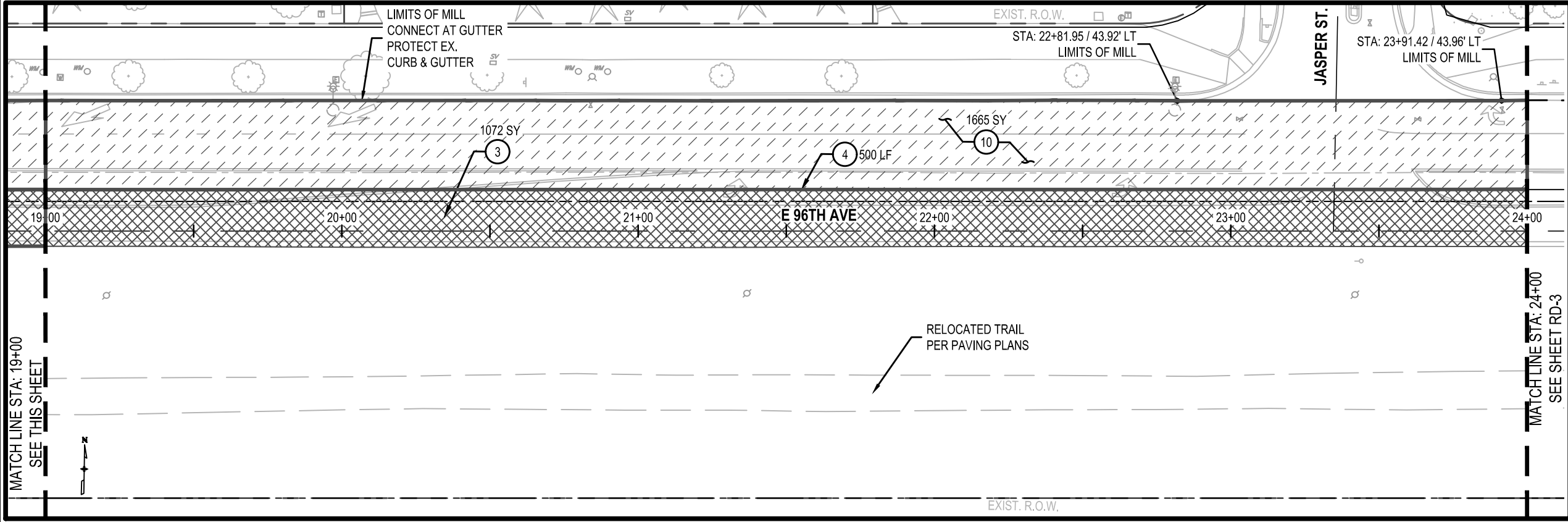
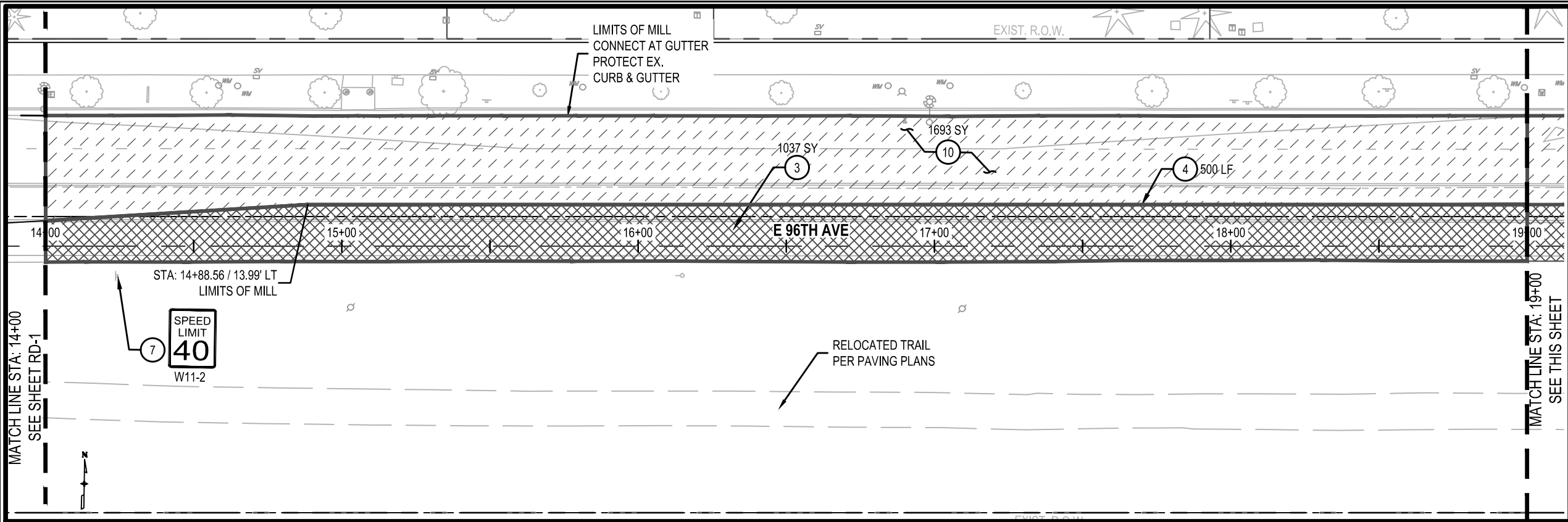
Wendy Lee Amann
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

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PROJECT NO	COMMERCE CITY 2022-18-PW
SHEET NAME	HUITT-ZOLLARS R315643.01
SHEET NO.	RD-1
	29 OF 315

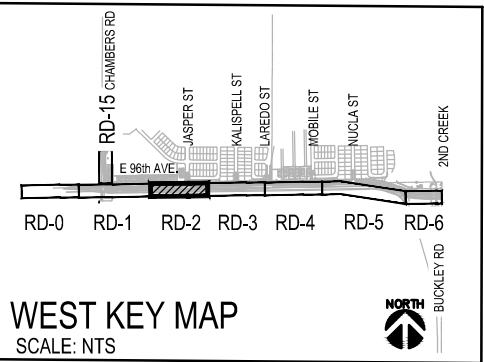


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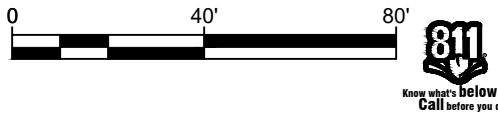
- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
- 6 REMOVE OF TRAFFIC SIGNAL POLE
- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE PAVEMENT
- MILL EXISTING ROADWAY



WEST KEY MAP
SCALE: NTS



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File Name	64001-C-RD-2.dwg
Date	NOVEMBER 1, 2024
Version	Autodesk Civil 3D
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CITY
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Commerce City, CO
80022
PH 303-289-3600
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Design by:

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ZOLLARS
555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

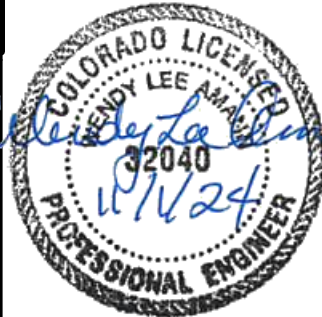
ROADWAY REMOVAL PLAN

STA 14+00 TO STA 24+00

Wendy Lee Amann
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

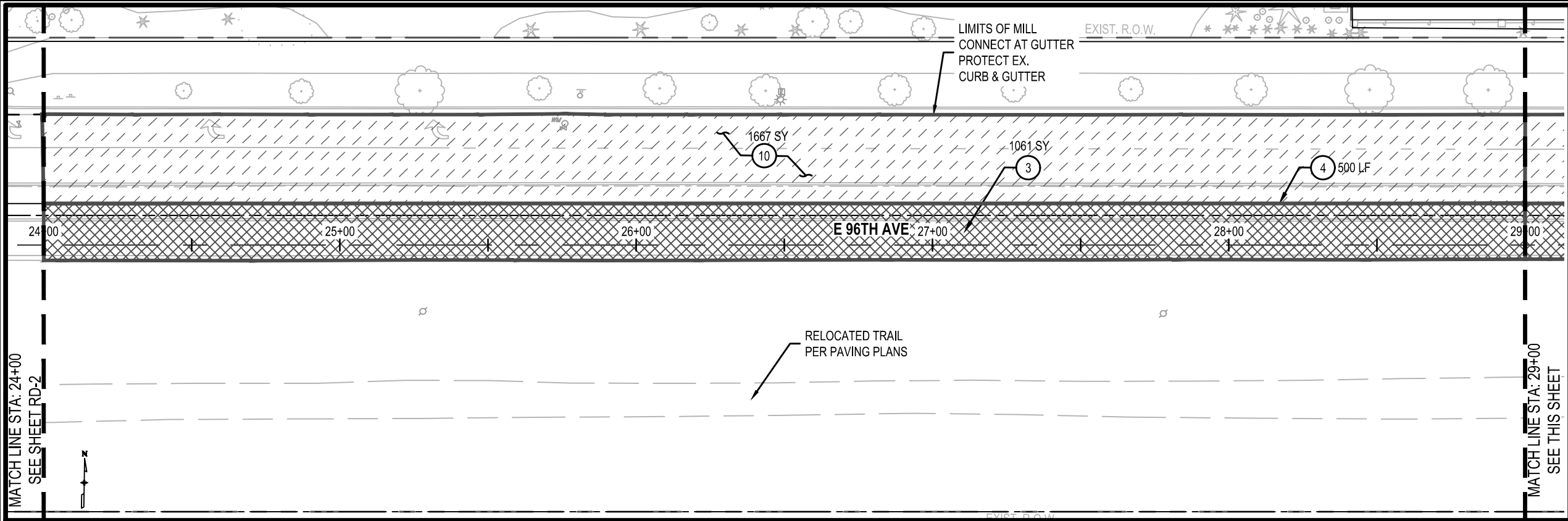
HUITT-ZOLLARS
R315643.01

SHEET NAME

RD-2

SHEET NO.

30 OF 315



KEYNOTES

1

REMOVAL OF CURB AND GUTTER

2

REMOVAL OF CONCRETE CURB RAMP

3

REMOVAL OF ASPHALT MAT

4

SAW CUT LINE

5

REMOVAL OF CONCRETE PAVEMENT

6

REMOVE OF TRAFFIC SIGNAL POLE

7

REMOVE SIGN AND POLE

8

REMOVE WARNING MARKER

9

SIGN AND POLE TO REMAIN IN PLACE

10

MILL EXISTING ROADWAY

11

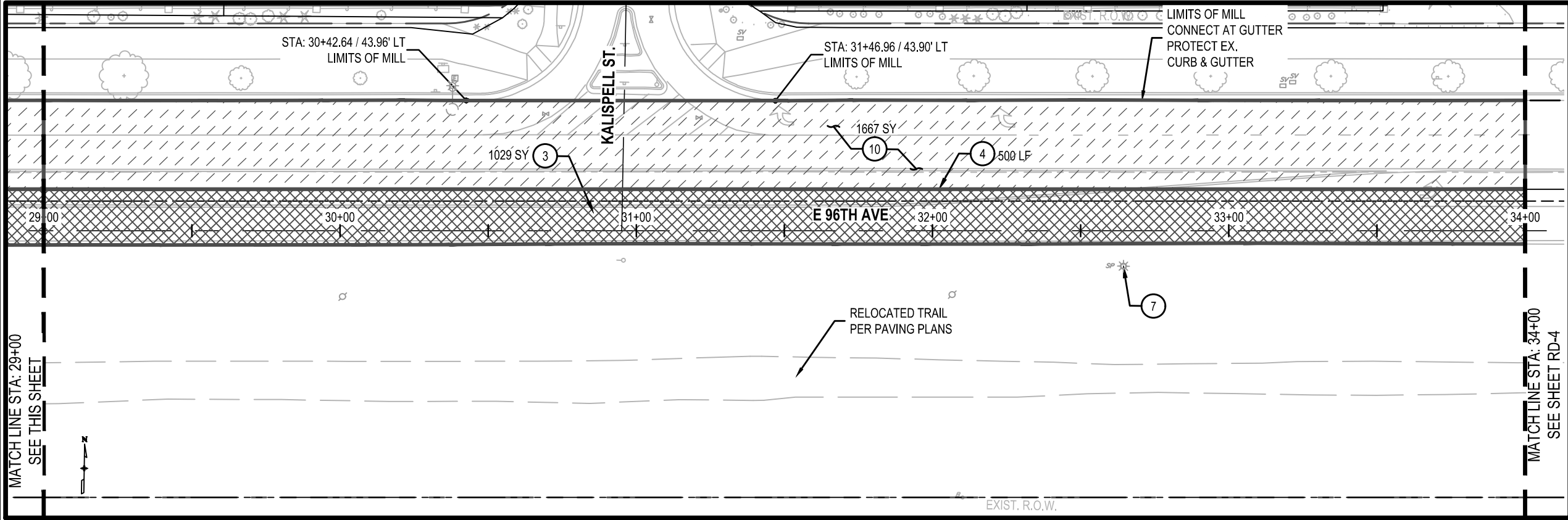
REMOVAL OF SIDEWALK

LEGEND

REMOVE EXISTING ASPHALT PAVEMENT

REMOVE EXISTING CONCRETE PAVEMENT

MILL EXISTING ROADWAY



RD-15 CHAMBERS RD

RD-14 JASPER ST

RD-13 KALISPELL ST

RD-12 LAREDO ST

RD-11 MOBILE ST

RD-10 NUCIA ST

RD-9 2ND CREEK

RD-8 BUCKLEY RD

RD-7

RD-6

RD-5

RD-4

RD-3

RD-2

RD-1

RD-0

E 96th AVE

WEST KEY MAP

SCALE: NTS

0

40'

80'

811

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File Name 64001-C-RD-3.dwg	△	
Date NOVEMBER 1, 2024	△	
Version Autodesk Civil 3D	△	
Design By	△	
Checked By	△	

Design for:

Commerce CITY

7887 E. 60th Ave.

Commerce City, CO 80022

PH 303-289-3600

www.c3gov.com

Design by:

HUITT ZOLLARS

555 17th Street Suite 900

Denver, Co 80202

PH 303-740-7325

Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY REMOVAL PLAN

STA 24+00 TO STA 34+00

Wendy Lee Amann

WENDY AMANN, PE# 32040

NOVEMBER 1, 2024

DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE

COLORADO LICENSE

WENDY LEE AMANN

32040

PROFESSIONAL ENGINEER

PROJECT NO

COMMERCE CITY
2022-18-PW

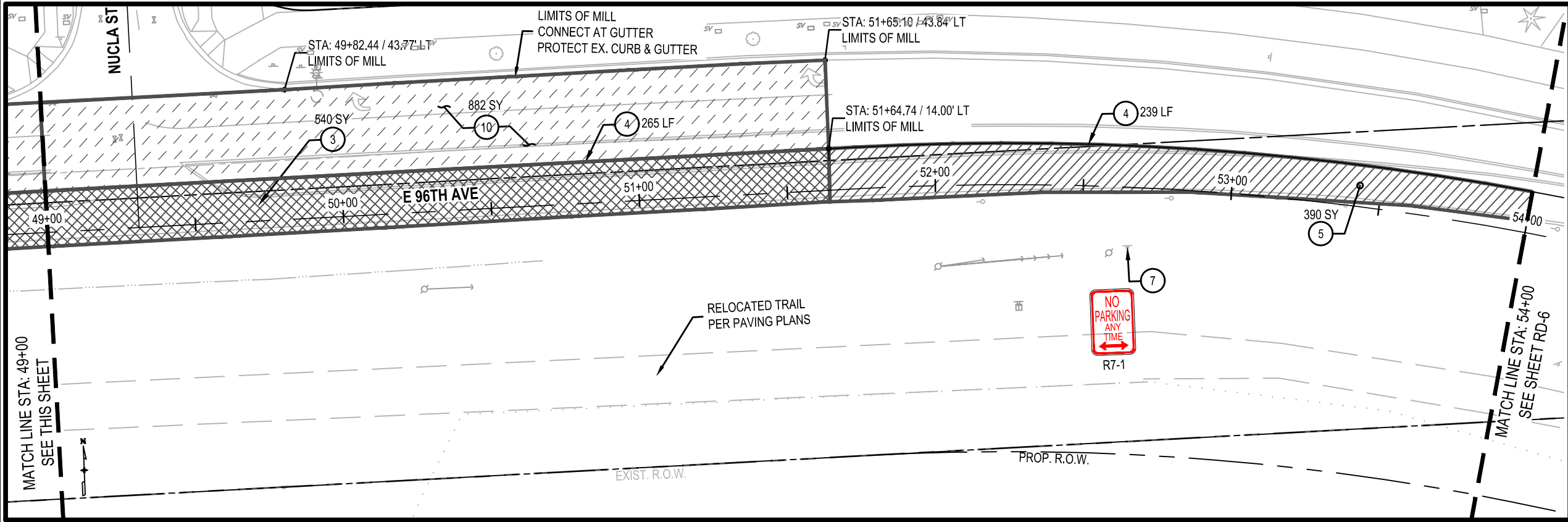
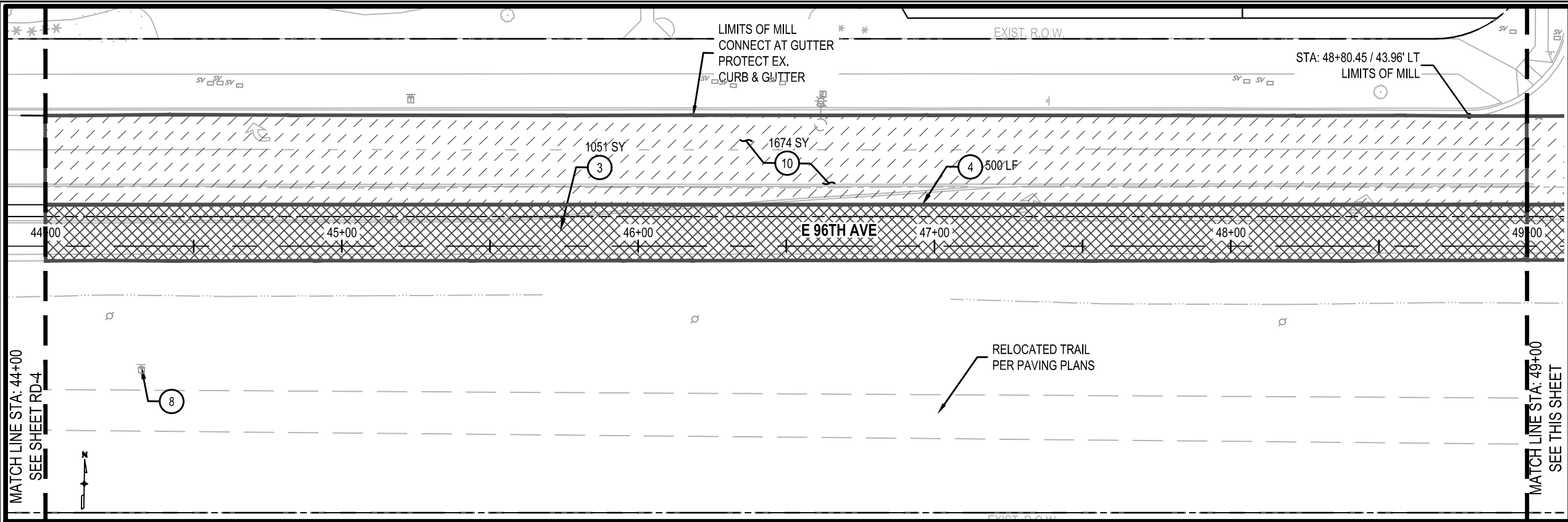
HUITT-ZOLLARS
R315649.01

SHEET NAME

RD-3

SHEET NO.

31 OF 315

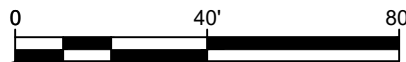
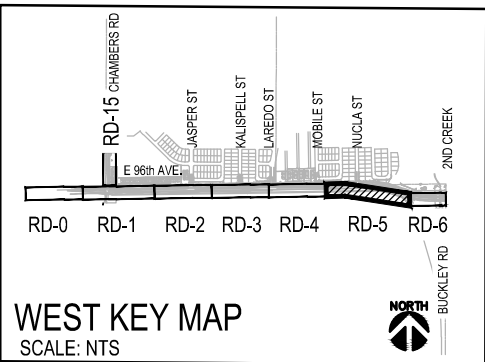


KEYNOTES

- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
- 6 REMOVE OF TRAFFIC SIGNAL POLE
- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE PAVEMENT
- MILL EXISTING ROADWAY



DRAWING INFORMATION

File Name
64001-C-RD-5.dwg
Date
NOVEMBER 1, 2024
Version
Autodesk Civil 3D
Design By
Checked By

INDEX OF REVISIONS

DATE

Design for:

Commerce City
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Commerce City, CO
80022
PH 303-289-3600
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Design by:

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555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

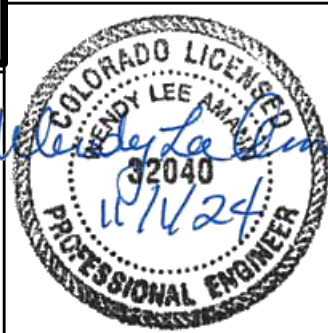
ROADWAY REMOVAL PLAN

STA 44+00 TO STA 54+00

Wendy Lee Amann
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

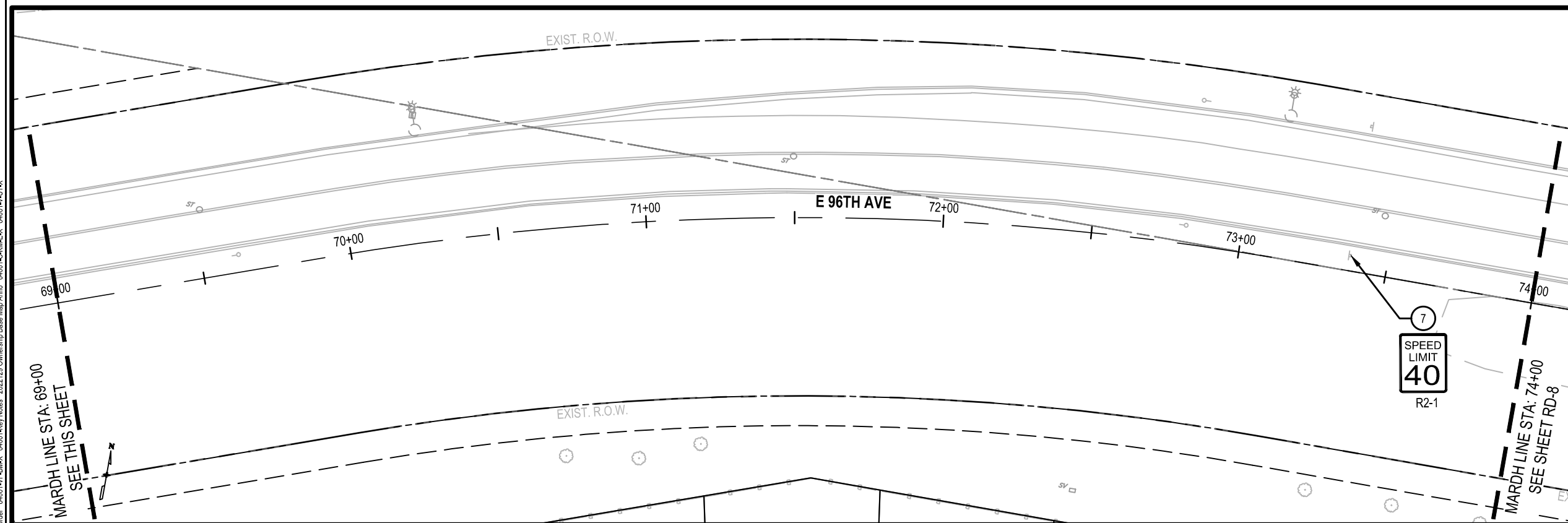
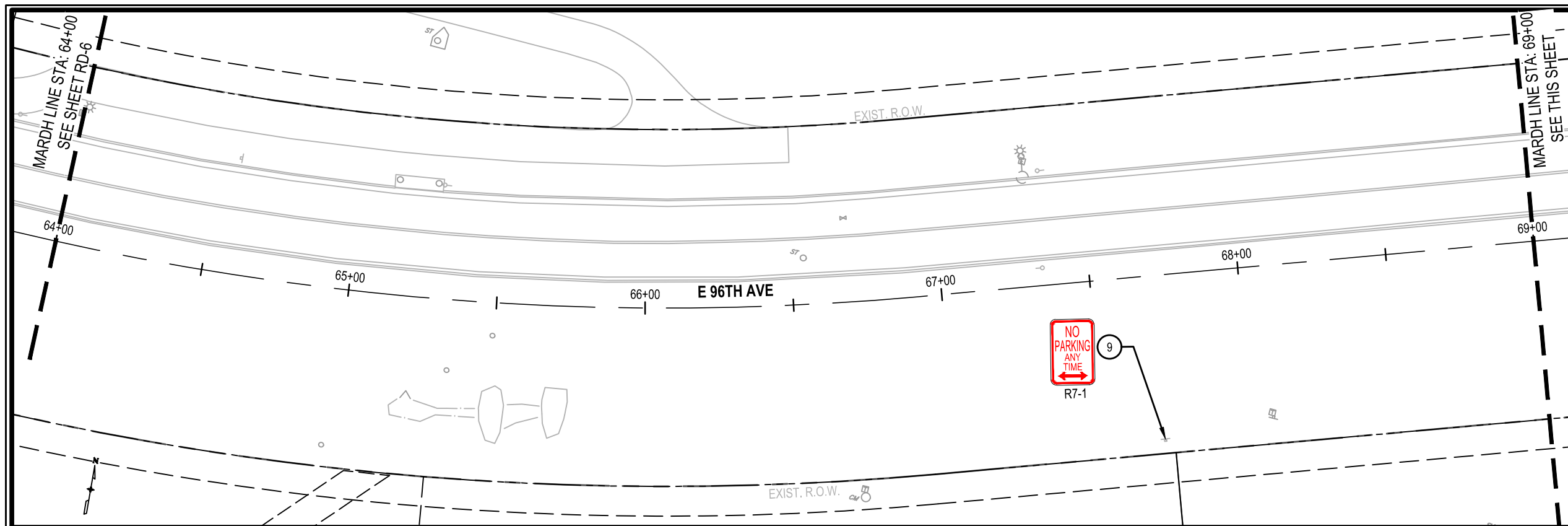
HUITT-ZOLLARS
R315643.01

SHEET NAME

RD-5

SHEET NO.

33 OF 315



KEYNOTES

- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
- 6 REMOVE OF TRAFFIC SIGNAL POLE
- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

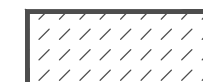
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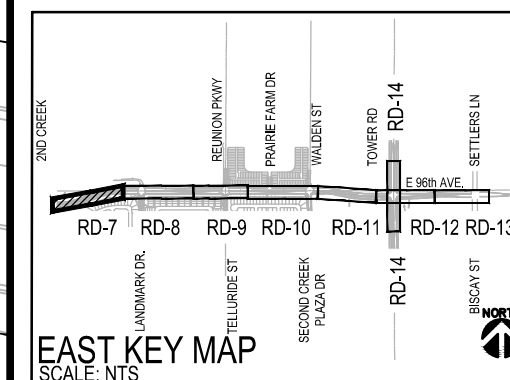
REMOVE EXISTING
ASPHALT PAVEMENT



REMOVE EXISTING
CONCRETE PAVEMENT



MILL EXISTING ROADWAY



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name			
64001-C-RD-7.dwg			
Date			
NOVEMBER 1, 2024			
Version			
Autodesk Civil 3D			
Design By			
Checked By			

Design for:  7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	Design by:  555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com
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EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

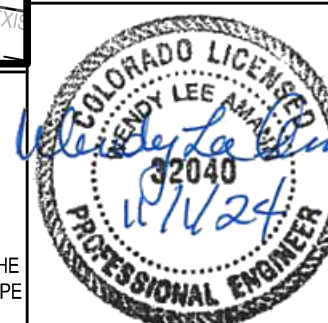
ROADWAY REMOVAL PLAN

STA 64+00 TO STA 74+00

Wendy Lee Amann
WENDY AMANN, PE# 32040

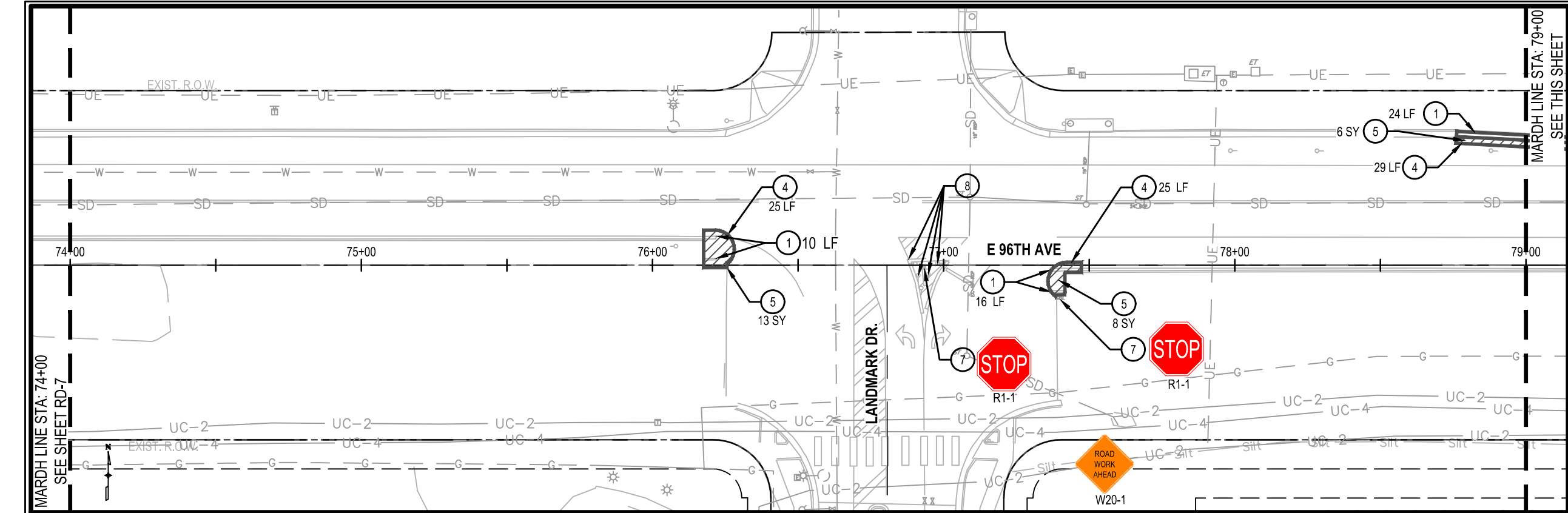
NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE

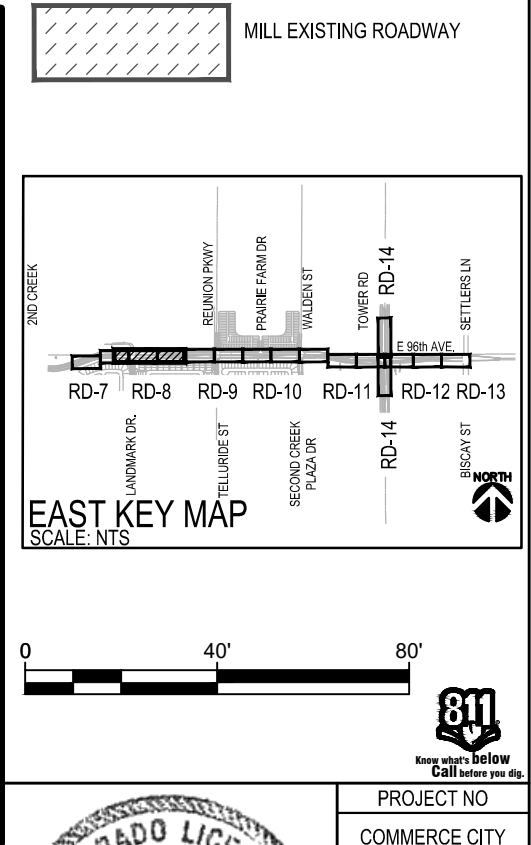
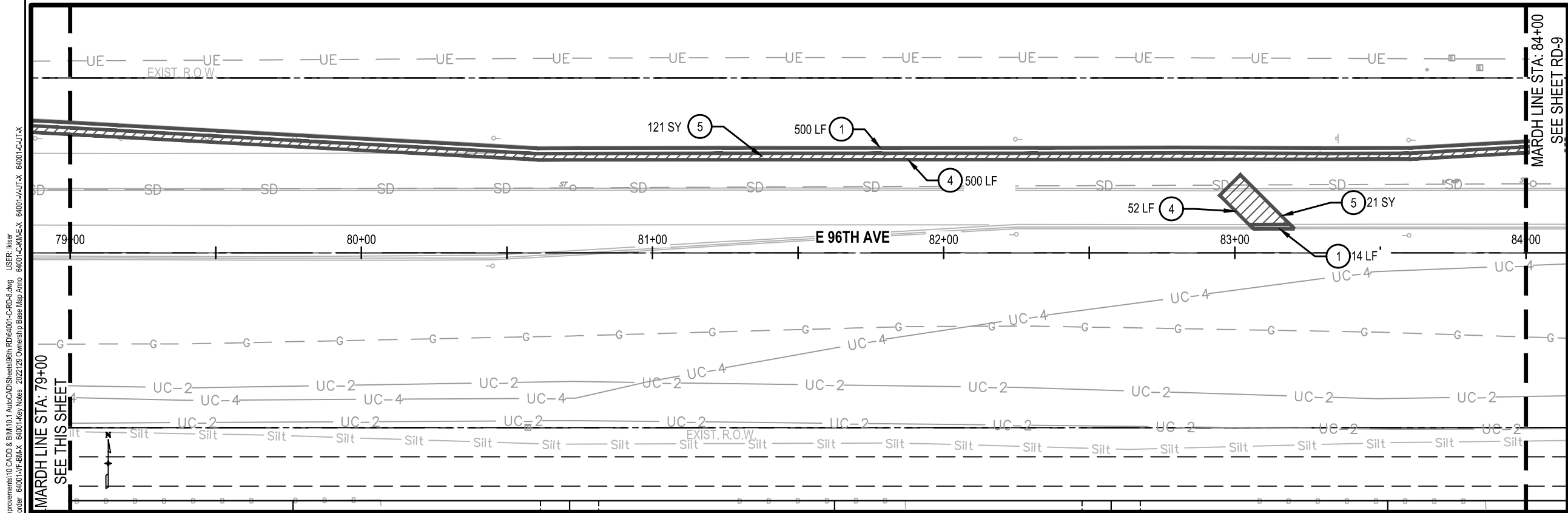


PROJECT NO	COMMERCE CITY 2022-18-PW
HUITT-ZOLLARS <i>Blue</i> R315649.01	
SHEET NAME	RD-7
SHEET NO.	35 OF 315

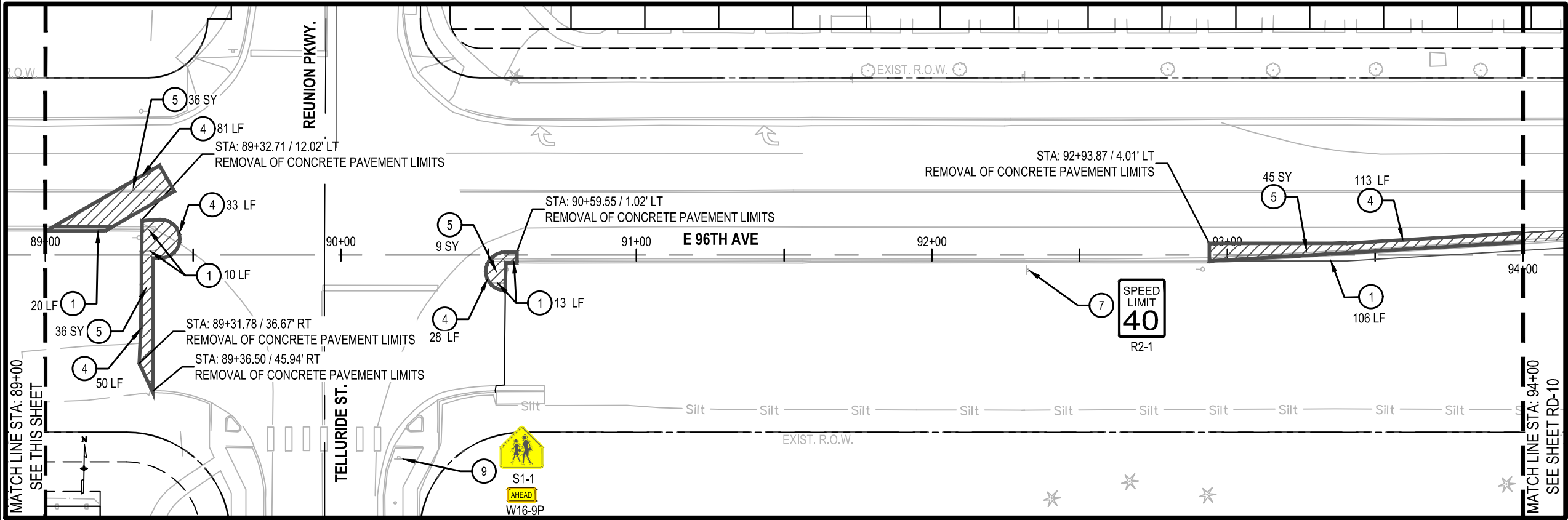
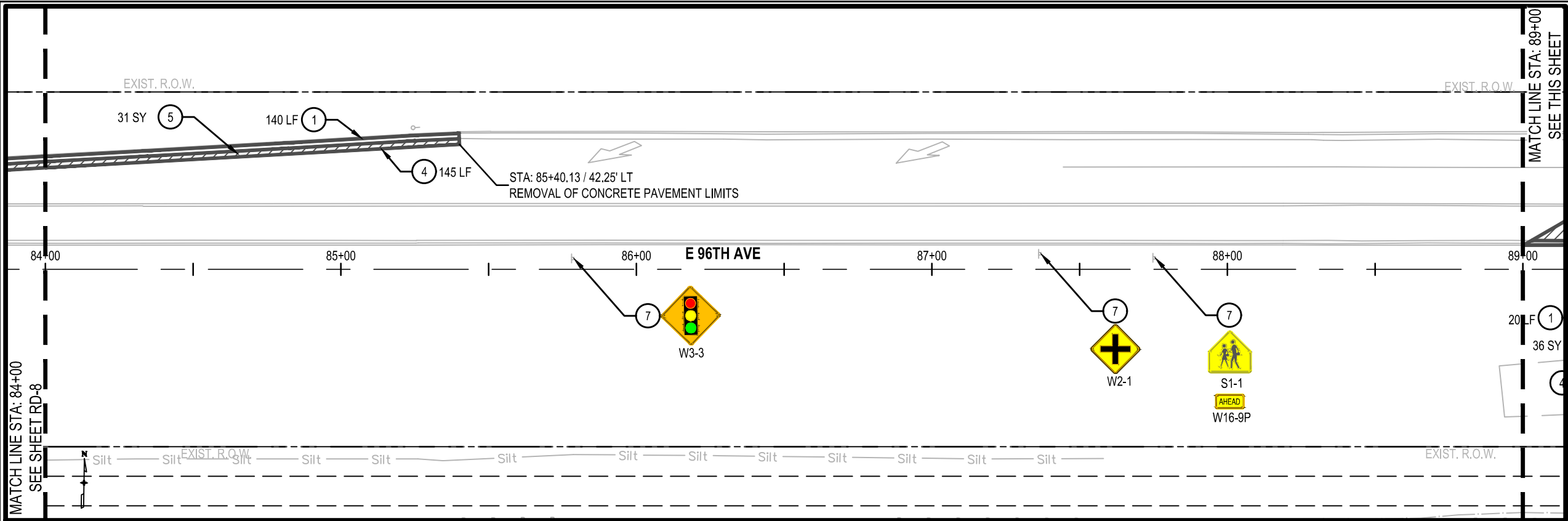
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 DATE: Nov 06, 2024 4:54:0m



- KEYNOTES**
- 1 REMOVAL OF CURB AND GUTTER
 - 2 REMOVAL OF CONCRETE CURB RAMP
 - 3 REMOVAL OF ASPHALT MAT
 - 4 SAW CUT LINE
 - 5 REMOVAL OF CONCRETE PAVEMENT
 - 6 REMOVE OF TRAFFIC SIGNAL POLE
 - 7 REMOVE SIGN AND POLE
 - 8 REMOVE WARNING MARKER
 - 9 SIGN AND POLE TO REMAIN IN PLACE
 - 10 MILL EXISTING ROADWAY
 - 11 REMOVAL OF SIDEWALK
- LEGEND**
- REMOVE EXISTING ASPHALT PAVEMENT
 - REMOVE EXISTING CONCRETE PAVEMENT
 - MILL EXISTING ROADWAY



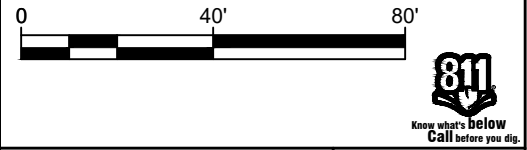
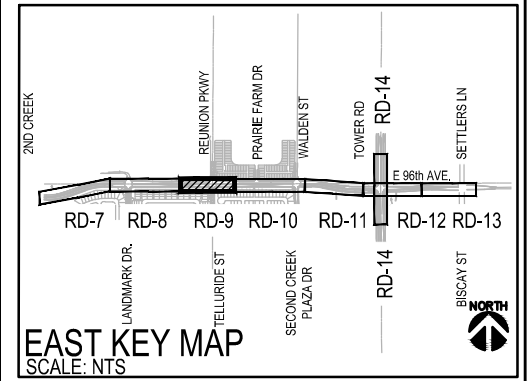
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File Name	64001-C-RD-8.dwg					 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com		 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com		ROADWAY REMOVAL PLAN STA 74+00 TO STA 84+00					
Date	NOVEMBER 1, 2024														
Version	Autodesk Civil 3D														
Design By															
Checked By															



- KEYNOTES**
- 1 REMOVAL OF CURB AND GUTTER
 - 2 REMOVAL OF CONCRETE CURB RAMP
 - 3 REMOVAL OF ASPHALT MAT
 - 4 SAW CUT LINE
 - 5 REMOVAL OF CONCRETE PAVEMENT
 - 6 REMOVE OF TRAFFIC SIGNAL POLE
 - 7 REMOVE SIGN AND POLE
 - 8 REMOVE WARNING MARKER
 - 9 SIGN AND POLE TO REMAIN IN PLACE
 - 10 MILL EXISTING ROADWAY
 - 11 REMOVAL OF SIDEWALK

LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE PAVEMENT
- MILL EXISTING ROADWAY



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name	64001-C-RD-9.dwg	△	
Date	NOVEMBER 1, 2024	△	
Version	Autodesk Civil 3D	△	
Design By		△	
Checked By		△	

Design for:

COMMERCE CITY
7887 E. 60th Ave.
Commerce City, CO 80022
PH 303-289-3600
www.c3gov.com

Design by:

HUITT ZOLLARS
555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY REMOVAL PLAN

STA 84+00 TO STA 94+00

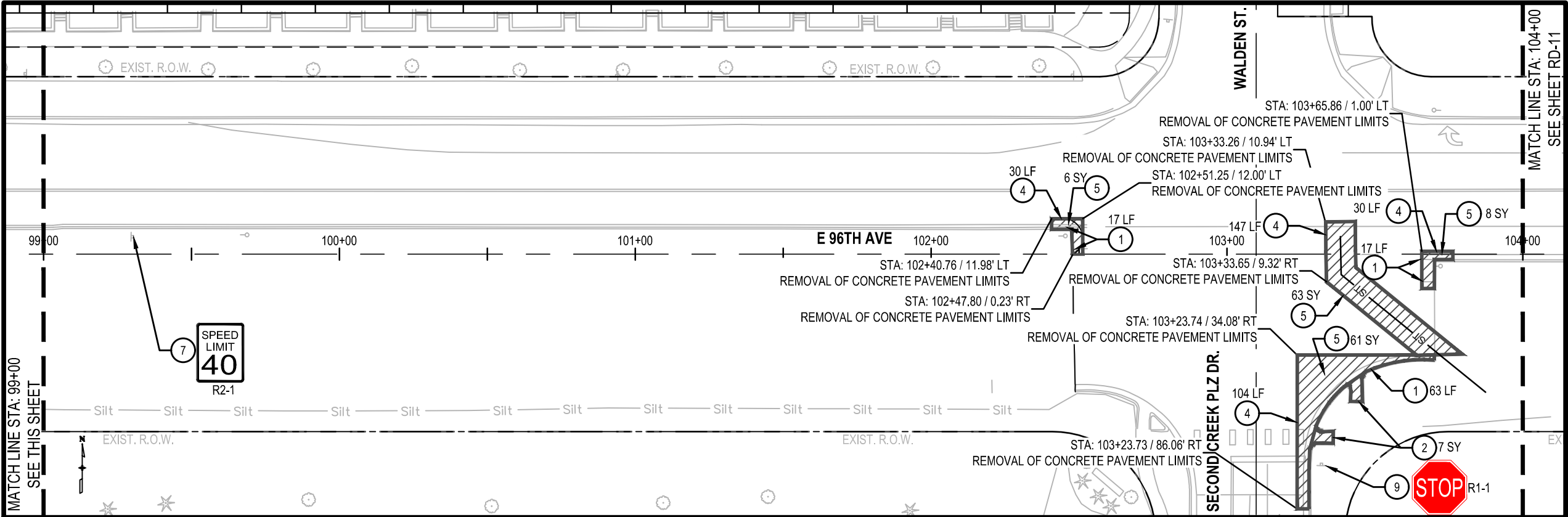
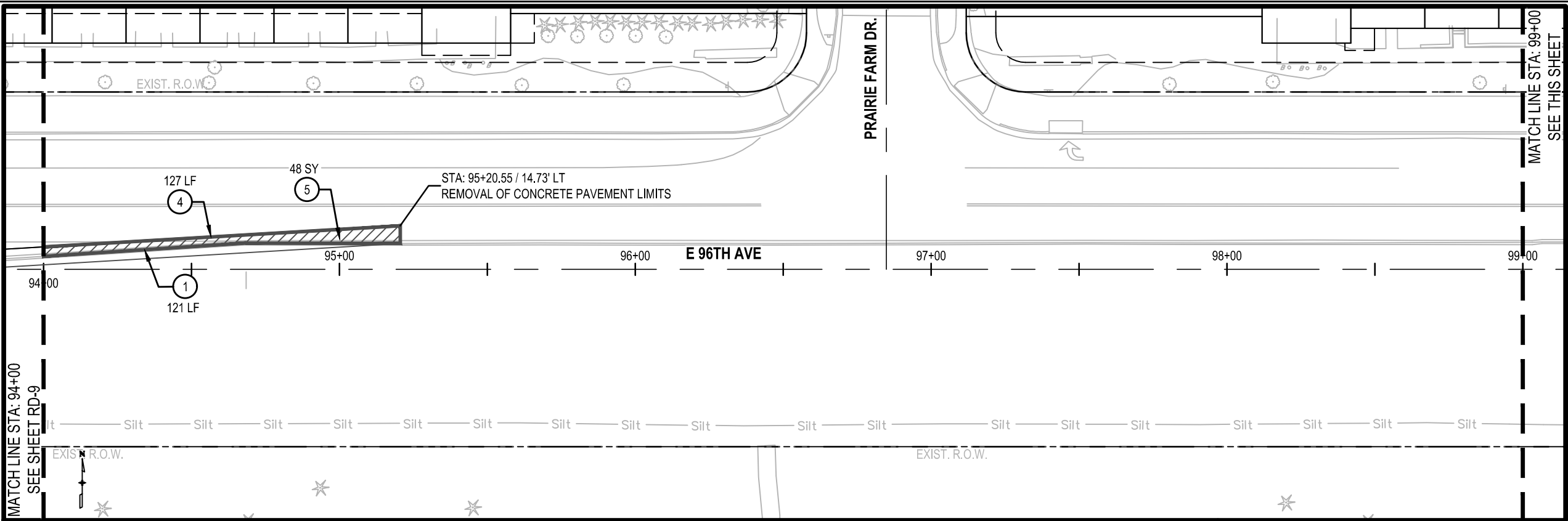
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE

PROFESSIONAL ENGINEER

PROJECT NO	COMMERCE CITY 2022-18-PW
SHEET NAME	HUITT-ZOLLARS R315640.01
SHEET NO.	RD-9
	37 OF 315



KEYNOTES

- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
- 6 REMOVE OF TRAFFIC SIGNAL POLE
- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

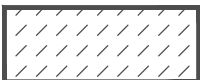
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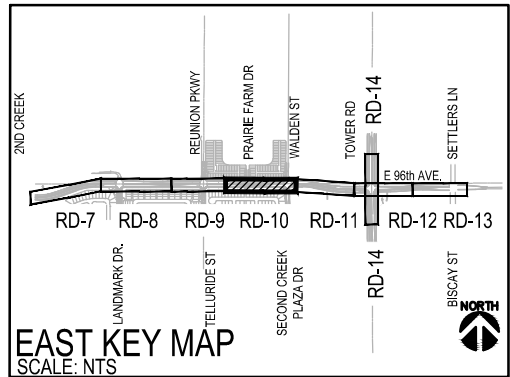
REMOVE EXISTING ASPHALT PAVEMENT



REMOVE EXISTING CONCRETE PAVEMENT



MILL EXISTING ROADWAY



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name	64001-C-RD-10.dwg	△	
Date	NOVEMBER 1, 2024	△	
Version	Autodesk Civil 3D	△	
Design By		△	
Checked By		△	

Design for: Commerce City
7887 E. 60th Ave.
Commerce City, CO 80022
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www.c3gov.com

Design by: HUITT ZOLLARS
555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY REMOVAL PLAN

STA 94+00 TO STA 104+00

Wendy Lee Amann
WENDY AMANN, PE# 32040

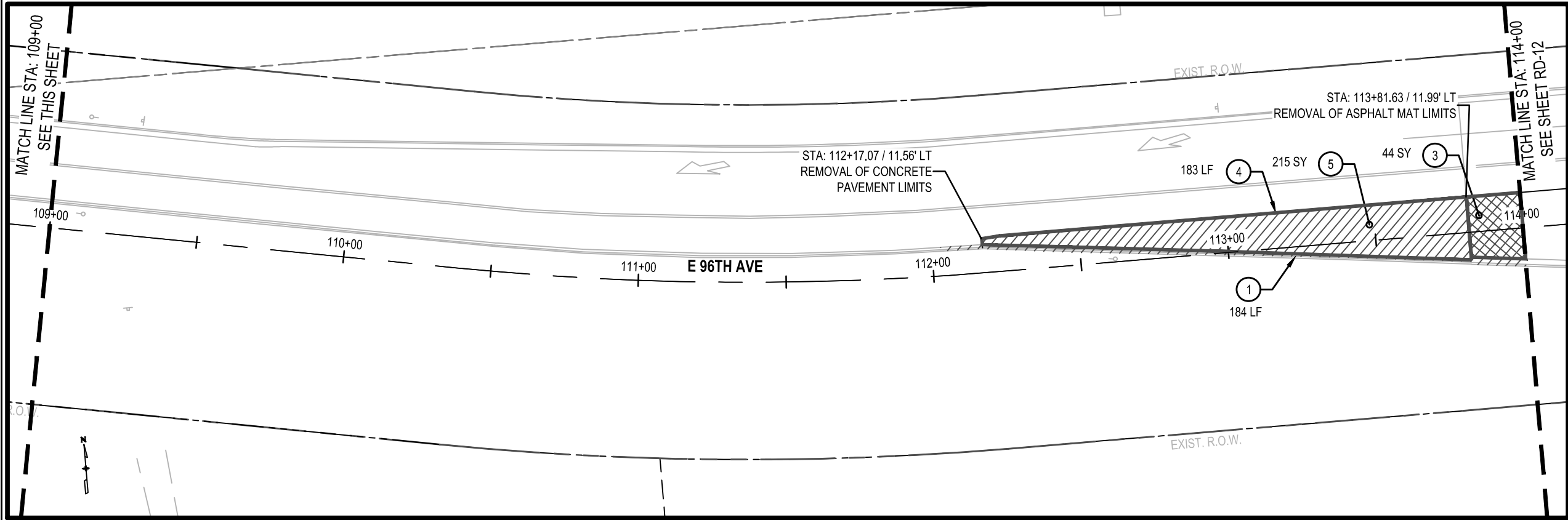
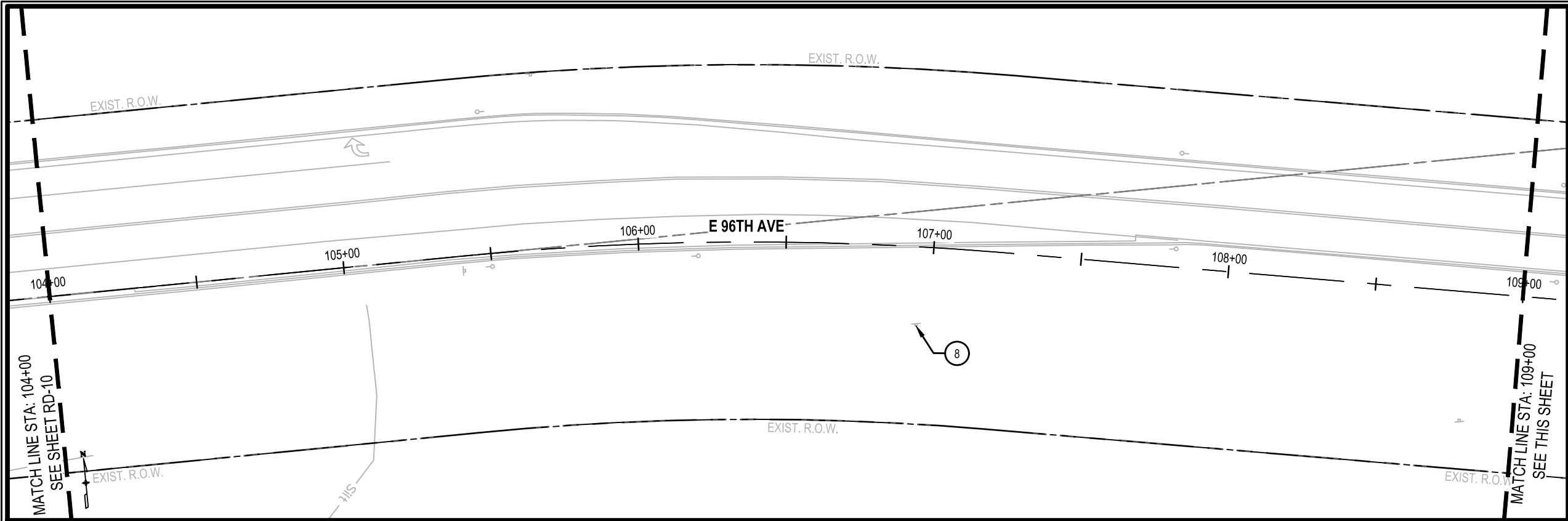
NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO	COMMERCE CITY 2022-18-PW
SHEET NAME	HUITT-ZOLLARS R315643.01
SHEET NO.	RD-10
	38 OF 315

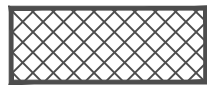
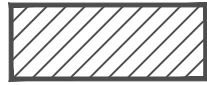
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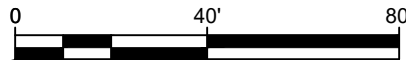
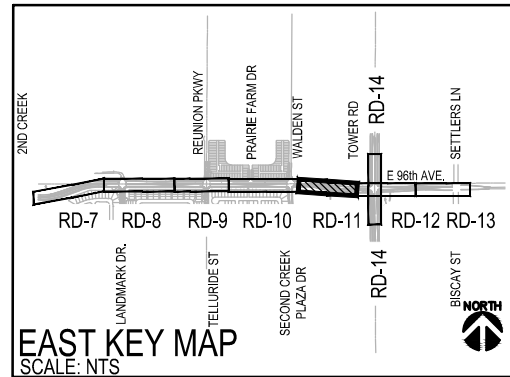


KEYNOTES

- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
- 6 REMOVE OF TRAFFIC SIGNAL POLE
- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

LEGEND

-  REMOVE EXISTING ASPHALT PAVEMENT
-  REMOVE EXISTING CONCRETE PAVEMENT
-  MILL EXISTING ROADWAY



DRAWING INFORMATION

File Name	64001-C-RD-11.dwg
Date	NOVEMBER 1, 2024
Version	Autodesk Civil 3D
Design By	
Checked By	

INDEX OF REVISIONS

DATE	DESCRIPTION

DATE

Design for:


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Commerce City, CO
80022
PH 303-289-3600
www.c3gov.com

Design by:


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Denver, Co 80202
PH 303-740-7325
Huiitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

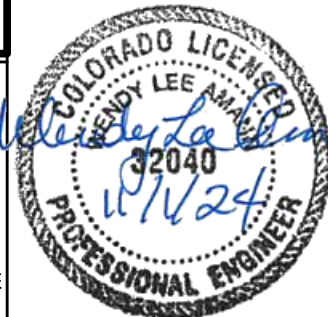
ROADWAY REMOVAL PLAN

STA 104+00 TO STA 114+00


WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

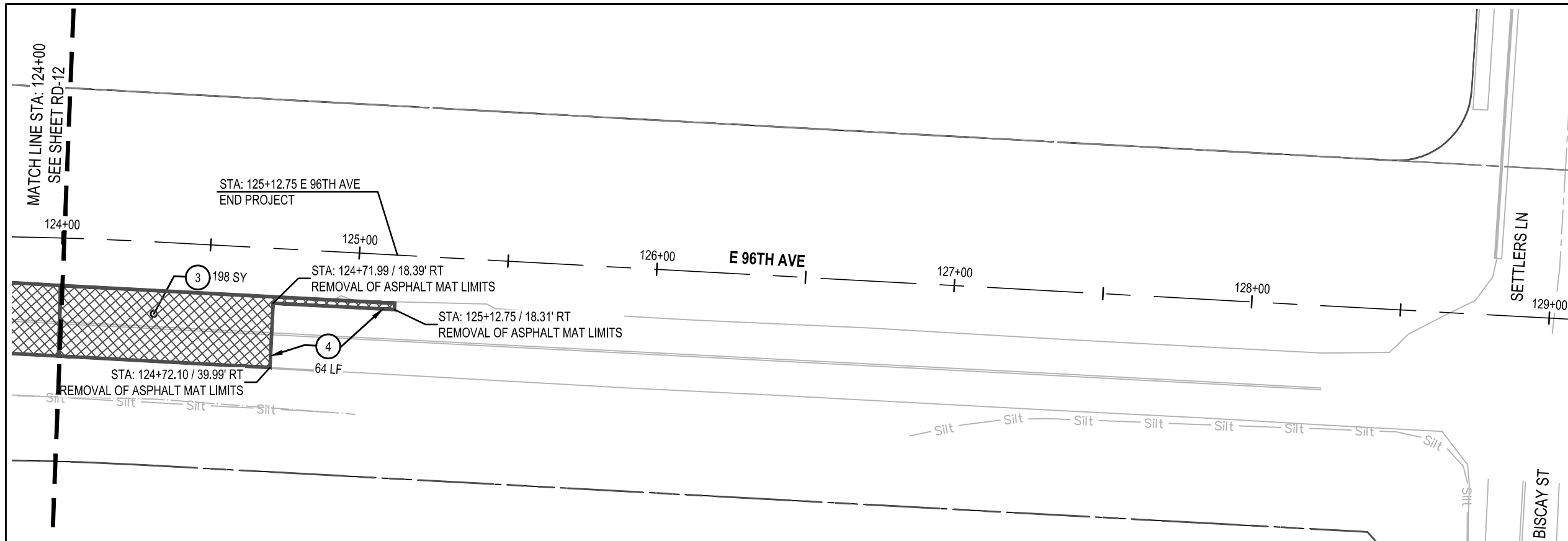
HUITT-ZOLLARS
R315640.01

SHEET NAME

RD-11

SHEET NO.

39 OF 315

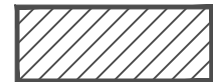


- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
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- 7 REMOVE SIGN AND POLE
- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

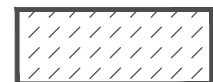
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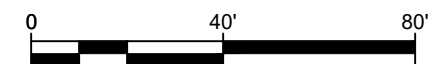
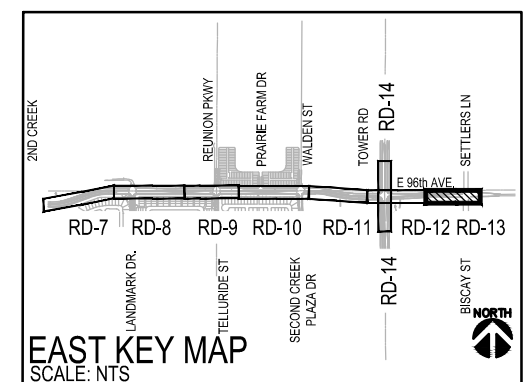
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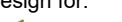
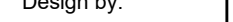
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CONCRETE PAVEMENT

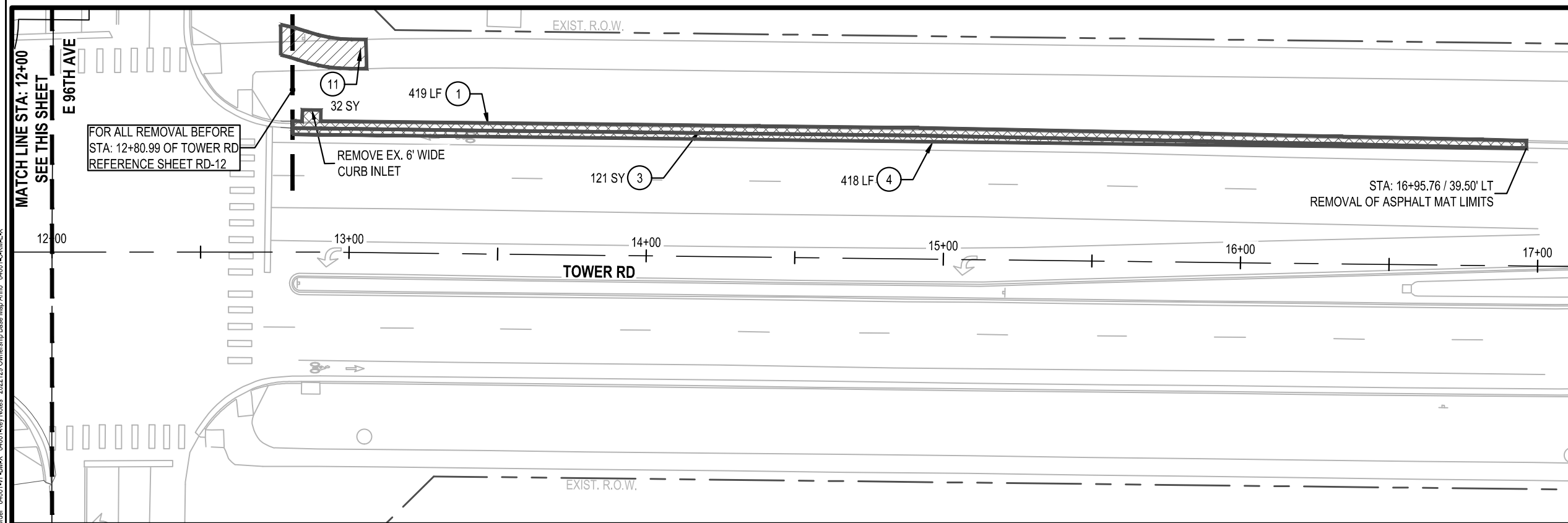


MILL EXISTING ROADWAY



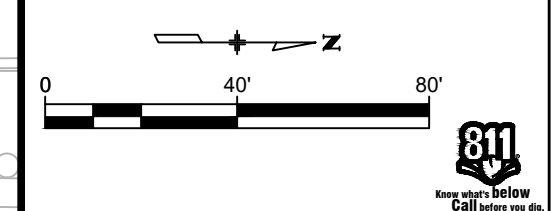
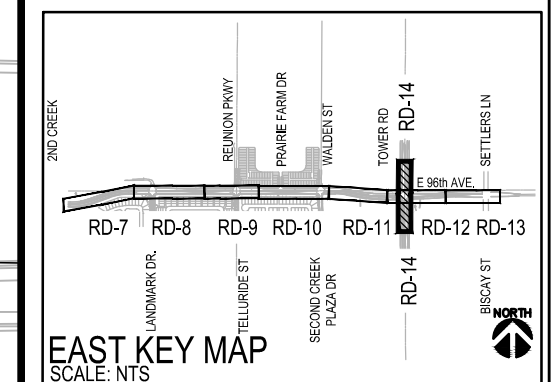
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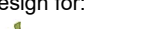
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File Name	△				 Commerce CITY 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	 HUITT ZOLLARS 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com	ROADWAY REMOVAL PLAN STA 124+00 TO STA 129+00			
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Date	△									
NOVEMBER 1, 2024	△									
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Design By	△									
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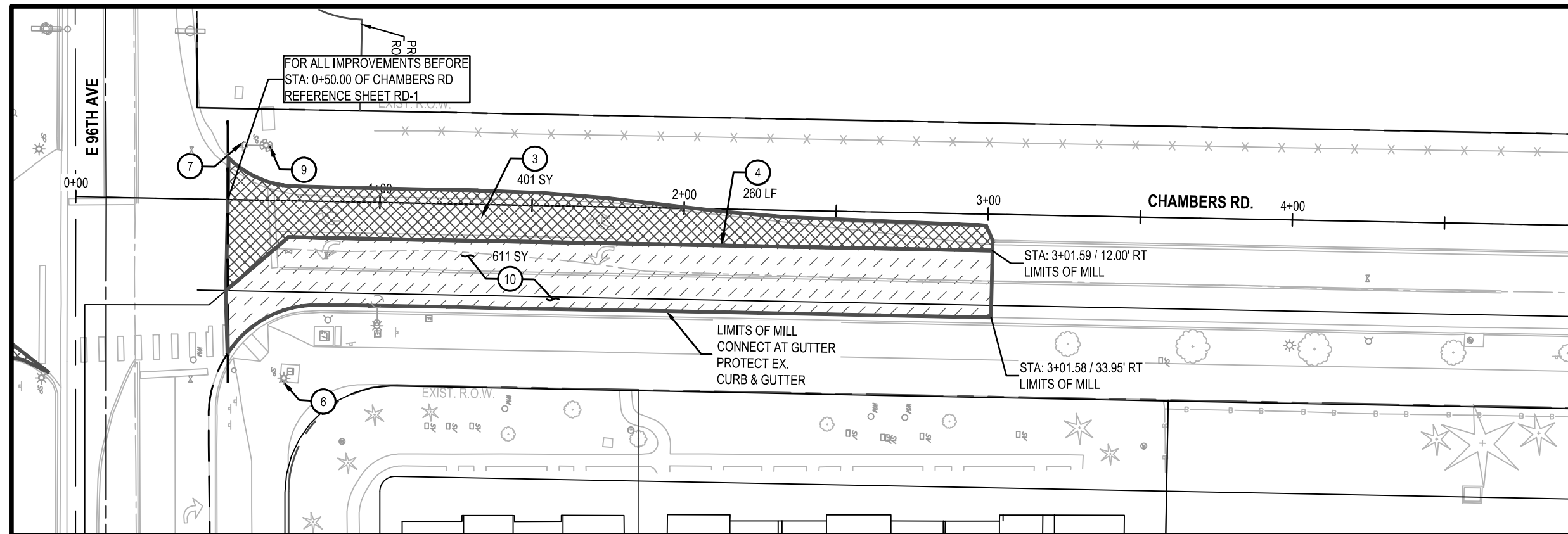


- LEGEND**

	REMOVE EXISTING ASPHALT PAVEMENT
	REMOVE EXISTING CONCRETE PAVEMENT
	MILL EXISTING ROADWAY



DRAWING INFORMATION		INDEX OF REVISIONS		DATE	Design for:	Design by:	EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD			SHEET NO. 2022-18-PW	
File Name					 Commerce City 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com	ROADWAY REMOVAL PLAN STA 7+00 TO STA 17+00 (TOWER RD)	 WENDY AMANN, PE# 32040	HUITT-ZOLLARS R313649.01		
Date									NOVEMBER 1, 2024 DATE	SHEET NAME RD-14	
Version										THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	SHEET NO. 42 OF 315
Design By											
Checked By											

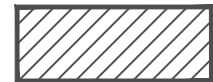


- 1 REMOVAL OF CURB AND GUTTER
- 2 REMOVAL OF CONCRETE CURB RAMP
- 3 REMOVAL OF ASPHALT MAT
- 4 SAW CUT LINE
- 5 REMOVAL OF CONCRETE PAVEMENT
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- 8 REMOVE WARNING MARKER
- 9 SIGN AND POLE TO REMAIN IN PLACE
- 10 MILL EXISTING ROADWAY
- 11 REMOVAL OF SIDEWALK

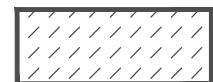
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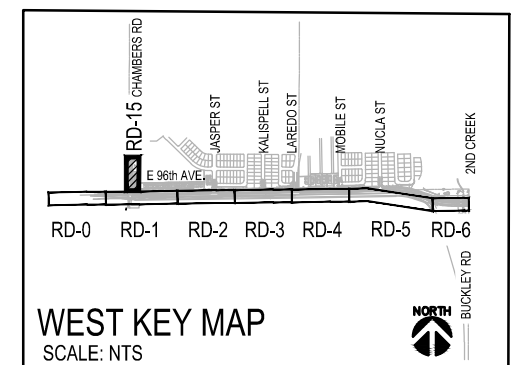
REMOVE EXISTING
ASPHALT PAVEMENT



REMOVE EXISTING
CONCRETE PAVEMENT



MILL EXISTING ROADWAY



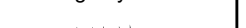
Now what's below
Call before you dig.

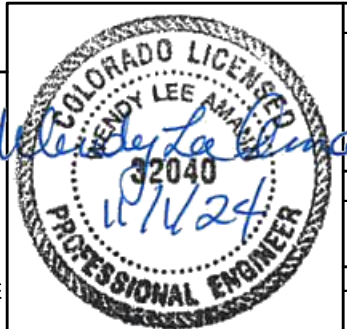
DRAWING INFORMATION		INDEX OF REVISIONS		DATE	Design for:	Design by:	EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD		Wendy Lee Amann WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	2022-18-PW HUITT-ZOLLARS R315649.01 SHEET NAME RD-15 SHEET NO. 43 OF 315
File Name	△				 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com	ROADWAY REMOVAL PLAN STA 0+00 TO STA 5+00 (CHAMBERS RD)	Wendy Lee Amann WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	2022-18-PW HUITT-ZOLLARS R315649.01 SHEET NAME RD-15 SHEET NO. 43 OF 315	
64001-C-RD-15.dwg	△									
Date	△									
NOVEMBER 1, 2024	△									
Version Autodesk Civil 3D	△									
Design By	△									
Checked By SAB	△									

TABULATION OF SURFACING QUANTITIES																																								
			403-00720	412-01050	606-00006	304-08000	403-34871		403-33851		403-33851		403-34871						304-06000		304-06000		304-08000																	
					3	AGGREGATE													COMPOSITE	PATCHING	AGGREGATE																			
			HOT			BASE	HOT MIX ASPHALT - TON														AGGREGATE	AGGREGATE	BASE																	
	HMA AREA		MIX			COURSE	GRADING SX (100)		GRADING S (100)		GRADING S (100)		GRADING S (100)		GRADING SX (100)		1EMULSIFIED		2EMULSIFIED		BASE		BASE		COURSE															
			ASPHALT	CONCRETE	CONCRETE	SHOULDER	(PG 76-28)		(PG 64-28)		(PG 64-28)		(PG 64-28)		(PG 76-28)		ASPHALT		ASPHALT		COURSE		COURSE		(SHOULDER															
	96TH AVE		(PATCHING)	PAVEMENT	TRAIL	TRAIL	LAYER 4		LAYER 3		LAYER 2		LAYER 1		OVERLAY		(SLOW SETTING)		(SLOW SETTING)		(CLASS 6)		(CLASS 6)		MATERIAL TRAIL)															
	COMPOSITE	OVERLAY	(ASPHALT)	(10-1/2 INCH)	(6 INCH)	(6 INCH)	2"		2"		2"		2-1/2"		2"		GAL		GAL		TON		TON		TON															
STATION	SY	SY	SY	SY	SY	SY	PLAN		PLAN		PLAN		PLAN		PLAN		PLAN		PLAN		PLAN		PLAN		PLAN															
96TH AVE																																								
2+93.44 TO 4+00	57		23				6		6		6		8		0		11				37																			
4+00 TO 9+00	1,825	1,058	24				201		201		201		251		116		365				1,186																			
9+00 TO 14+00	2,361	1,696	147			462	260		260		260		325		187		472		7		1,535	96		139																
14+00 TO 19+00	1,374	1,693	222		160	506	151		151		151		189		186		275		11		941	144		152																
19+00 TO 24+00	1,940	1,665	311			667	213		213		213		267		183		388		16		1,261	202		200																
24+00 TO 29+00	1,333	1,671	223			668	147		147		147		183		184		267		11		866	145		200																
29+00 TO 34+00	1,665	1,666	222			667	183		183		183		229		183		333		11		1,082	144		200																
34+00 TO 39+00	1,793	1,666	228			667	197		197		197		247		183		359		11		1,165	148		200																
39+00 TO 44+00	1,333	1,670	222			667	147		147		147		183		184		267		11		866	144		200																
44+00 TO 49+00	1,771	1,674	233			667	195		195		195		244		184		354		12		1,151	151		200																
49+00 TO 54+00	797	882	215	717		641	88		88		88		110		97		159		11		518	140		192																
54+00 TO 59+00				1,393		455	0																	137																
59+00 TO 64+00				1,044			0																																	
64+00 TO 69+00				1,351			0																																	
69+00 TO 74+00				1,550			0																																	
74+00 TO 79+00				1,760			0																																	
79+00 TO 84+00				2,283			0																																	
84+00 TO 89+00				2,195			0																																	
89+00 TO 94+00				1,553			0																																	
94+00 TO 99+00				1,976			0																																	
99+00 TO 104+00				1,914			0																																	
104+00 TO 109+00				1,870			0																																	
109+00 TO 114+00	91		4	2,108			10		10		10		13				18				59	3																		
114+00 TO 119+00	2,297		43				253		253		253		316				459				1,493	28																		
119+00 TO 122+76	2,401						264		264		264		330				480				1,561																			
TOWER RD																																								
7+03.99 TO 12+00	893						98		98		98		123				179				580																			
12+00 TO 16+95.76	470						52		52		52		65				94				306																			
CHAMBERS RD																																								
0+00 TO 3+01.62	401	611					44		44		44		55		67		80				261																			
IRREGULARITIES																																								
TOTAL	22,802	15,952	2,117	21,714	160	6,067	2,508		2,508		2,508		3,135		1,755		4,560		101		14,869	1,346		1,820																
ADD ALTERNATIVE																																								
REPLACE 6" CRUSHER FINES w/ CONCRETE TRAIL																																								
10+49.34 TO 57+12.70					160	6,063																1819		1819																
1 FOR INFORMATION ONLY (NOT TO BE MEASURED OR PAID FOR SEPARATELY)																																								
2 (PATCHING) FOR INFORMATION ONLY (NOT TO BE MEASURED OR PAID FOR SEPARATELY)																																								
DRAWING INFORMATION																				INDEX OF REVISIONS			DATE	Design for:			Design by:			EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD				Wendy Lee Amann WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE					PROJECT NO COMMERCE CITY 2022-18-PW HUITT-ZOLLARS R315640.01 SHEET NAME RP-0.1 SHEET NO. 44 OF 315	
File Name 64001-C-RP-0.1.dwg			BID ADDENDUM		08/09/2024		 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com			 555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com			TABULATION OF SURFACE QUANTITIES																											
			BID ADDENDUM		08/22/2024																																			
Date NOVEMBER 1, 2024			ISSUED FOR CONSTRUCTION		11/01/2024																																			
Version Autodesk Civil 3D																																								
Design By SAB																																								
Checked By RCR																																								

		606-00301	606-01380	606-02005	608-00006	608-00010	609-21010	609-21020
							CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)
STATION	SIDE	GUARDRAIL TYPE 3 (6-3 POST SPACING) LF	TRANSITION TYPE 3H EACH	END ANCHORAGE (FLARED) EACH	6" CONCRETE SIDEWALK SY	CONCRETE CURB RAMP SY	LF	LF
96TH AVE								
2+93.44 TO 4+00								
4+00 TO 9+00	RT							155
9+00 TO 14+00	RT & LT					9	664	663
14+00 TO 19+00	RT & LT						1,000	500
19+00 TO 24+00	RT & LT						798	500
24+00 TO 29+00	RT & LT						1,000	500
29+00 TO 34+00	RT & LT						1,000	500
34+00 TO 39+00	RT & LT						748	500
39+00 TO 44+00	RT & LT						1,000	500
44+00 TO 49+00	RT & LT						962	500
49+00 TO 54+00	RT & LT						845	491
54+00 TO 59+00	RT & LT				135		628	502
59+00 TO 64+00	RT & LT	50	4	4	266		389	391
64+00 TO 69+00	RT	64		2	345		503	511
69+00 TO 74+00	RT				317		498	488
74+00 TO 79+00	RT & LT				263		407	413
79+00 TO 84+00	RT & LT				359		500	1,000
84+00 TO 89+00	RT & LT				330		500	640
89+00 TO 94+00	RT & LT				279		521	384
94+00 TO 99+00	RT				333		621	500
99+00 TO 104+00	RT & LT				283	20	403	446
104+00 TO 109+00	RT				327		498	492
109+00 TO 114+00	RT & LT				339		685	508
114+00 TO 119+00	RT & LT				238	83	292	438
119+00 TO 124+00	RT & LT				41			471
TOWER RD								
8+13.98 TO 11+00	RT							287
11+00 TO 15+95.62	RT & LT							416
TOTAL		114	4	6	3,855	112	14,462	12,696



DRAWING INFORMATION			INDEX OF REVISIONS		DATE	Design for:	Design by:	EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD		Wendy Lee Amann WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE		2022-18-PW HUITT-ZOLLARS R315640.01 SHEET NAME RP-0.2 SHEET NO. 45 OF 315
File Name 64001-C-RP-0.2.dwg Date NOVEMBER 1, 2024 Version Autodesk Civil 3D Design By SAB Checked By RCR	1	BID ADDENDUM	08/09/2024	 Commerce City 7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com  555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com	TABULATION OF CURB & GUTTER AND SIDEWALK	Wendy Lee Amann WENDY AMANN, PE# 32040 NOVEMBER 1, 2024 DATE THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	2022-18-PW HUITT-ZOLLARS R315640.01 SHEET NAME RP-0.2 SHEET NO. 45 OF 315					
	2	BID ADDENDUM	08/22/2024									
	3	ISSUED FOR CONSTRUCTION	11/01/2024									
	4											
	5											



DWG: I:\proj\R315640.01 - Commerce City - 96th Ave Improvements\10 CADD & BIM\10.1 AutoCAD Sheets\66th RP 0.1 - 0.3\64001-C-RP-0.3.dwg USER: Muser DATE: Nov 08, 2024 4:58pm XREFS: 664001 Civil Border

SUMMARY OF EARTHWORK									
SOUTH SIDE DITCH									
									CY
UNCLASSIFIED EXCAVATION (from Computer)									
NET UNCLASSIFIED EXCAVATION (CHANNEL GRADING)									3,986
EMABANKMENT MATERIAL (from Computer)									
NET EMBANKMENT MATERIAL (COMPLETE IN PLACE)									3,314
EXCESS MATERIAL									672
REMAINING ROADWAY									
									CY
UNCLASSIFIED EXCAVATION (from Computer)									
NET UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)									27,614
EMABANKMENT MATERIAL (from Computer)									
NET EMBANKMENT MATERIAL (COMPLETE IN PLACE)									10,169
EXCESS MATERIAL									17,445
COMPACTION									
NET EMBANKMENT MATERIAL									13,483
BASE OF CUT AND FILLS									27,614
					TOTAL				41,097
WETTING									
COMPACTION X 0.040 (MGAL)									1,644

DRAWING INFORMATION		INDEX OF REVISIONS		DATE
File Name	△			
64001-C-RP-0.3.dwg	△			
Date	△			
NOVEMBER 1, 2024	△			
Version	△			
Autodesk Civil 3D	△			
Design By	△			
SAB	△			
Checked By	△			
RCR				

Design for:



Commerce
CITY

7887 E. 60th Ave.
Commerce City, CO
80022
PH 303-289-3600
www.c3gov.com

Design by:



HUITT
ZOLLARS

555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

SUMMARY OF EARTHWORK



WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315640.01

SHEET NAME

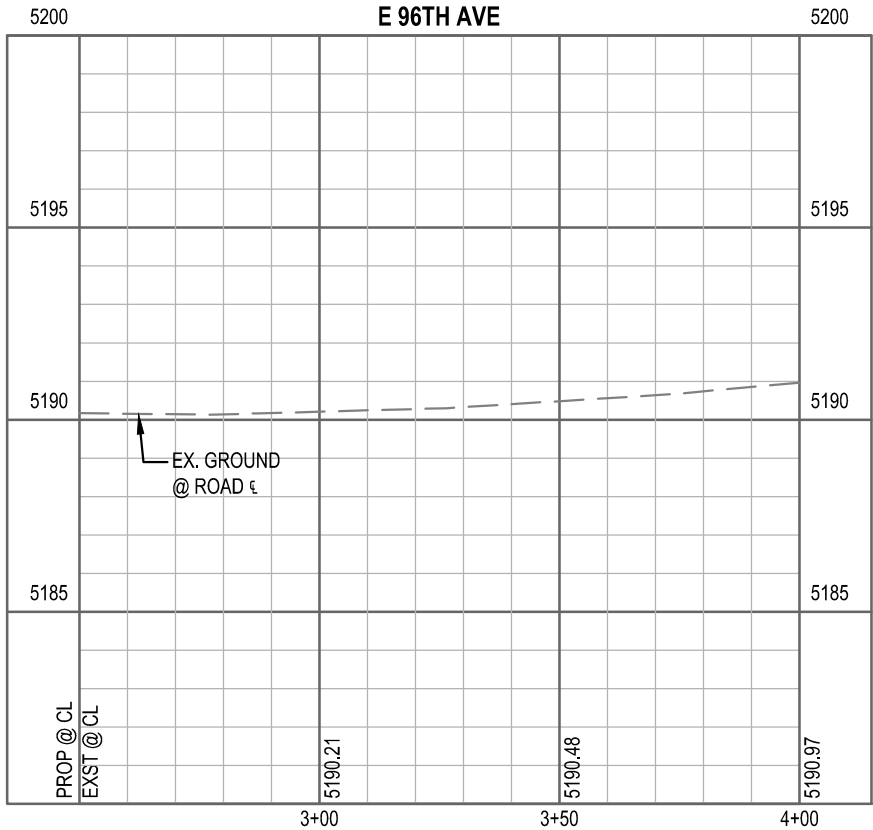
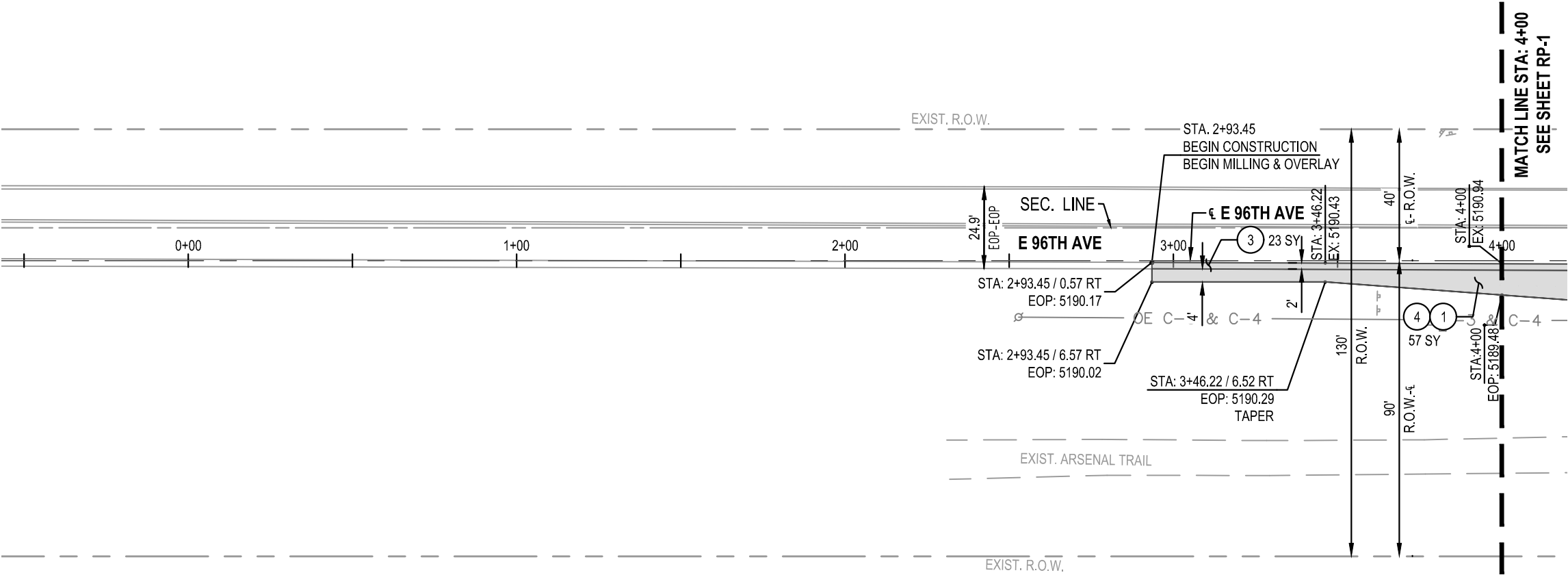
RP-0.3

SHEET NO.

46 OF 315

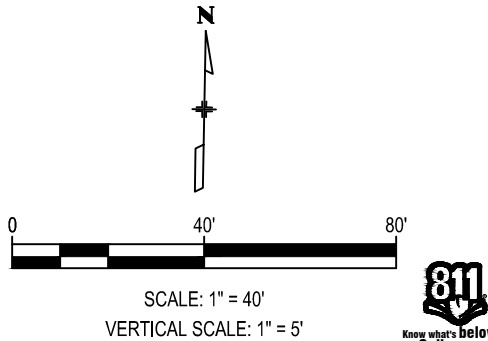
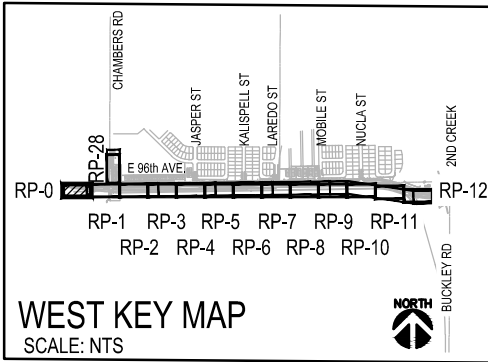


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DATE: Nov 06, 2024 4:38pm XREFS: 564001 Civil Border 64001-CSP-X 64001-VF-BM-X 64001-KEY Notes 64001-CSP-X (Shipping) 64001-C-KM-W-X 64001-VUT-X 64001-CUT-X



KEYNOTES

- 1 AGGREGATE BASE COURSE (CLASS 6)
- 2 AGGREGATE BASE COURSE (SHOULDER MATERIAL)
- 3 HOT MIX ASPHALT (PATCHING)
- 4 *HOT MIX ASPHALT
- 5 CONCRETE PAVEMENT (10.5 INCH)
- 6 CONCRETE SIDEWALK (6 INCH)
- 7 CONCRETE CURB RAMP
- 8 CURB AND GUTTER TYPE 2, SECTION IIB
- 9 CURB AND GUTTER TYPE 2, SECTION IIB
- 10 MILL & OVERLAY ASPHALT ROADWAY
- 11 STAMPED COLORED CONCRETE MEDIAN (4 INCH)
- 12 INSTALL TYPE 3 GUARDRAIL PER CDOT STD. DETAIL M-606-1
- 13 CONCRETE TRAIL (6 INCH)



DRAWING INFORMATION

File Name	64001-C-PV-0.dwg
Date	NOVEMBER 1, 2024
Version	Autodesk Civil 3D
Design By	LJK
Checked By	RCR

INDEX OF REVISIONS

DATE

Design for:


7887 E. 60th Ave.
Commerce City, CO
80022
PH 303-289-3600
www.c3gov.com

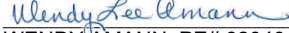
Design by:


555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huit-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY PLAN & PROFILE

STA 0+00 TO STA 4+00


WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE



PROJECT NO

COMMERCE CITY
2022-18-PW

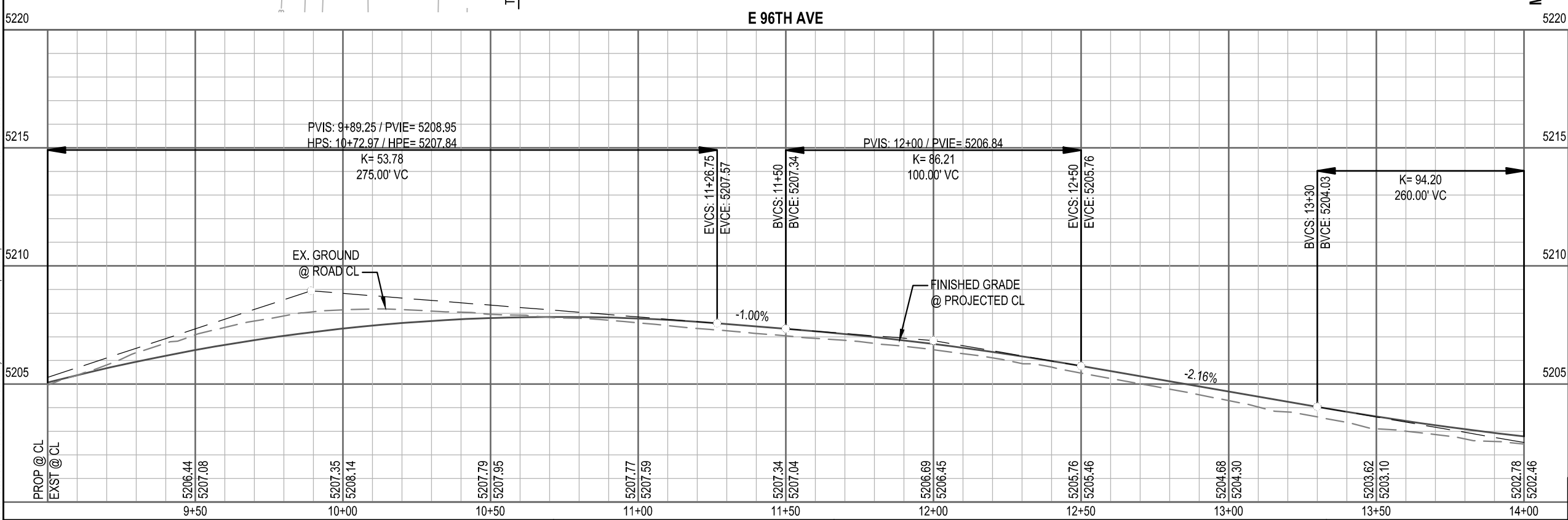
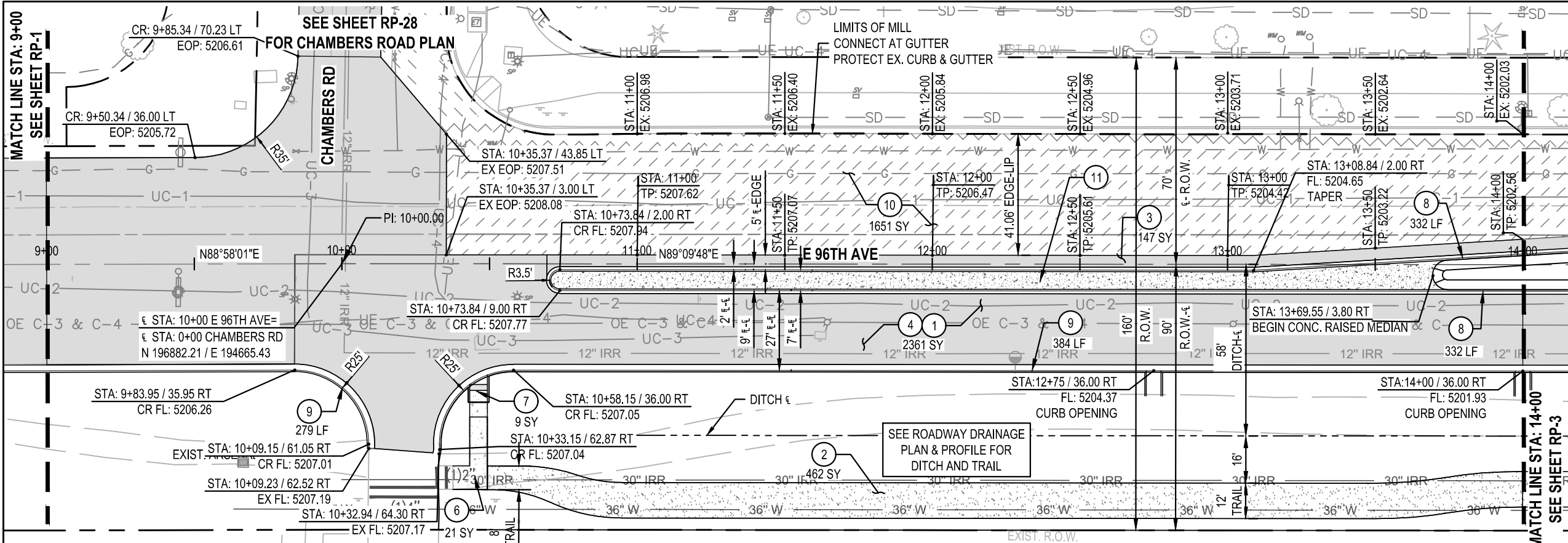
HUITT-ZOLLARS
R315643.01

SHEET NAME

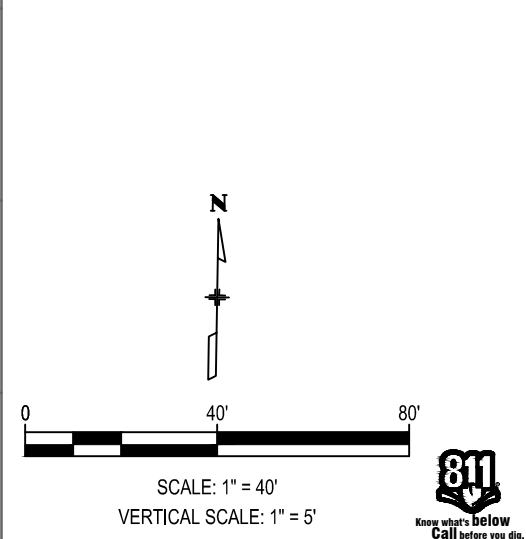
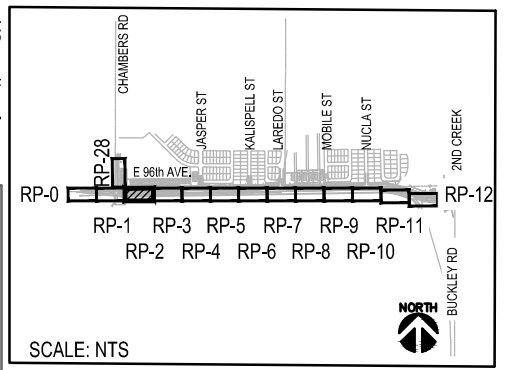
RP-0

SHEET NO.

47 OF 315



- KEYNOTES**
- 1 AGGREGATE BASE COURSE (CLASS 6)
 - 2 AGGREGATE BASE COURSE (SHOULDER MATERIAL)
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 - 9 CURB AND GUTTER TYPE 2, SECTION IIB
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 - 11 STAMPED COLORED CONCRETE MEDIAN (4 INCH)
 - 12 INSTALL TYPE 3 GUARDRAIL PER CDOT STD. DETAIL M-606-1
 - 13 CONCRETE TRAIL (6 INCH)



DRAWING INFORMATION		INDEX OF REVISIONS	DATE
File Name	64001-C-PV-2.dwg		
Date	NOVEMBER 1, 2024		
Version	Autodesk Civil 3D		
Design By	LJK		
Checked By	RCR		

Design for: **Commerce City**
7887 E. 60th Ave.
Commerce City, CO 80022
PH 303-289-3600
www.c3gov.com

Design by: **HUITT ZOLLARS**
555 17th Street
Suite 900
Denver, Co 80202
PH 303-740-7325
Huitt-Zollars.com

EAST 96TH AVENUE WIDENING
FROM CHAMBERS ROAD TO TOWER ROAD

ROADWAY PLAN & PROFILE

STA 9+00 TO STA 14+00

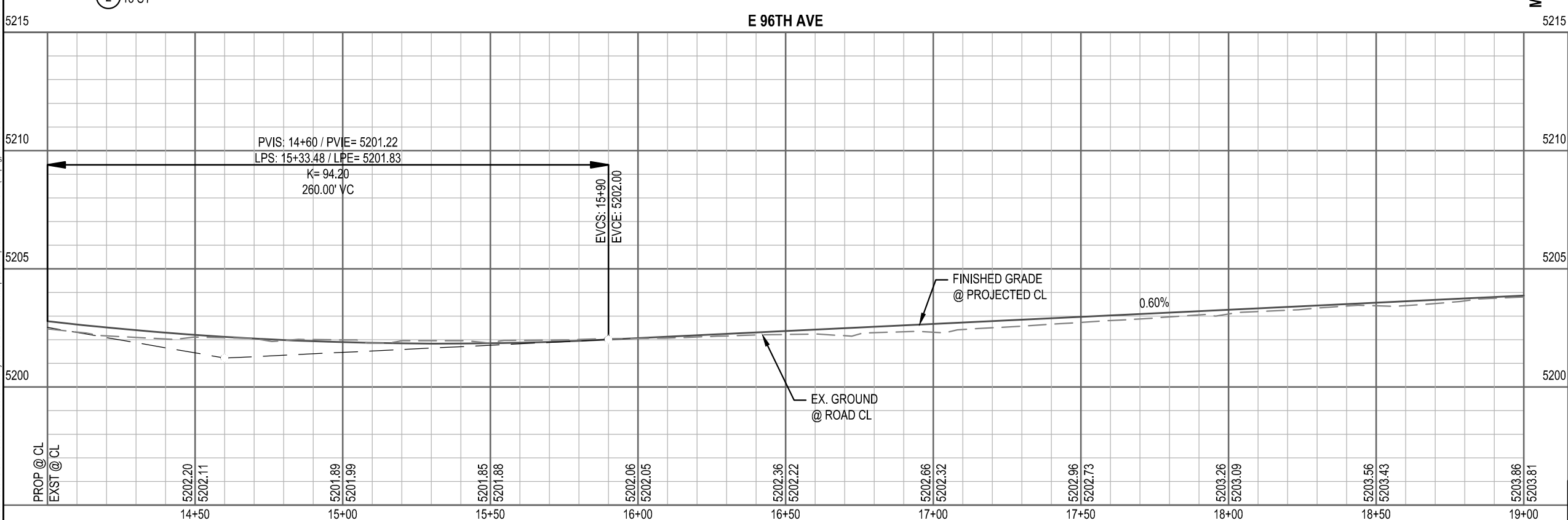
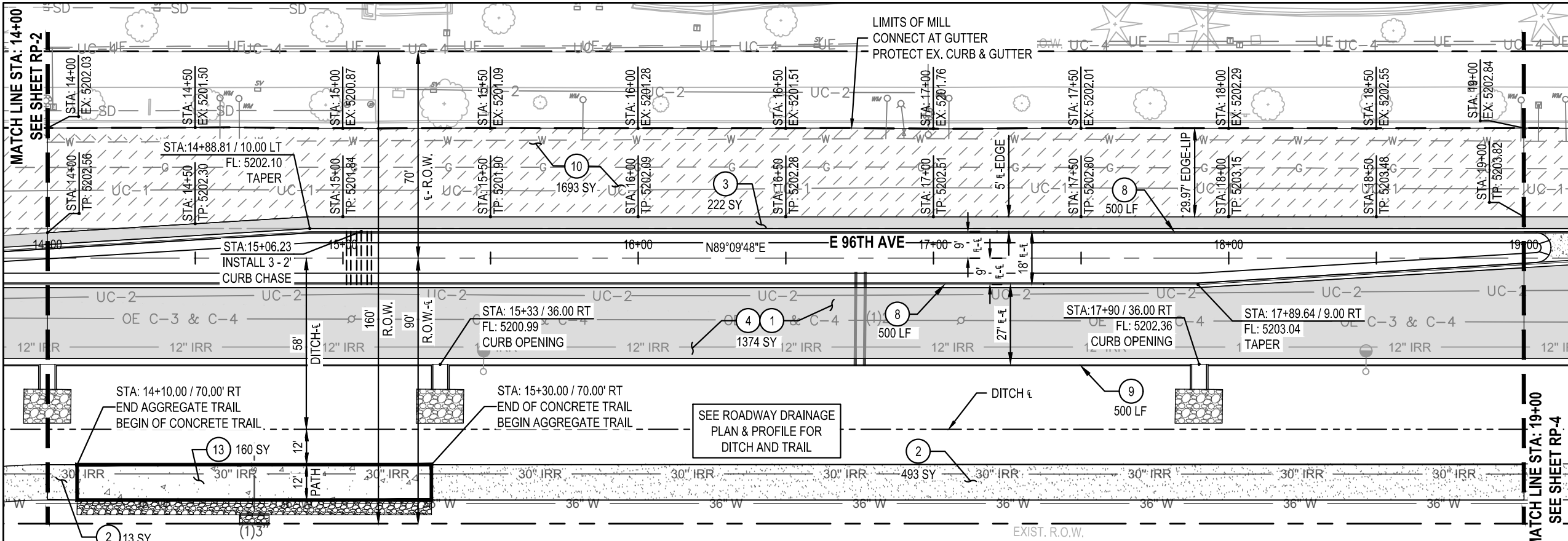
Wendy Lee Amann
WENDY AMANN, PE# 32040

NOVEMBER 1, 2024
DATE

THESE PLANS WERE PREPARED UNDER THE
DIRECT SUPERVISION OF WENDY AMANN, PE

PROFESSIONAL ENGINEER
WENDY LEE AMANN
32040
11/1/24

PROJECT NO	COMMERCE CITY 2022-18-PW
SHEET NAME	HUITT-ZOLLARS R315643.01
SHEET NO.	RP-2
	49 OF 315



DRAWING INFORMATION			INDEX OF REVISIONS		DATE	Design for:		Design by:		EAST 96TH AVENUE WIDENING FROM CHAMBERS ROAD TO TOWER ROAD		Wendy Lee Amann WENDY AMANN, PE# 32040	
File Name	64001-C-PV-3.dwg					Commerce City	7887 E. 60th Ave. Commerce City, CO 80022 PH 303-289-3600 www.c3gov.com	HUITT ZOLLARS	555 17th Street Suite 900 Denver, Co 80202 PH 303-740-7325 Huitt-Zollars.com	ROADWAY PLAN & PROFILE		NOVEMBER 1, 2024	
Date	NOVEMBER 1, 2024									STA 14+00 TO STA 19+00		DATE	
Version	Autodesk Civil 3D											THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF WENDY AMANN, PE	
Design By	LJK												
Checked By	RCR												

KEYNOTES

- AGGREGATE BASE COURSE (CLASS 6)
- AGGREGATE BASE COURSE (SHOULDER MATERIAL)
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- *HOT MIX ASPHALT
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- CONCRETE SIDEWALK (6 INCH)
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- CURB AND GUTTER TYPE 2, SECTION IB
- CURB AND GUTTER TYPE 2, SECTION IIB
- MILL & OVERLAY ASPHALT ROADWAY
- STAMPED COLORED CONCRETE MEDIAN (4 INCH)
- INSTALL TYPE 3 GUARDRAIL PER CDOT STD. DETAIL M-606-1
- CONCRETE TRAIL (6 INCH)

WEST KEY MAP

SCALE: NTS

811

Know what's below
Call before you dig.

PROJECT NO
COMMERCE CITY
2022-18-PW

HUITT-ZOLLARS
R315649.01

SHEET NAME
RP-3

SHEET NO.
50 OF 315