

Legend

- Boring Location
- Proposed Sewer Alignment
- Proposed Road Alignment



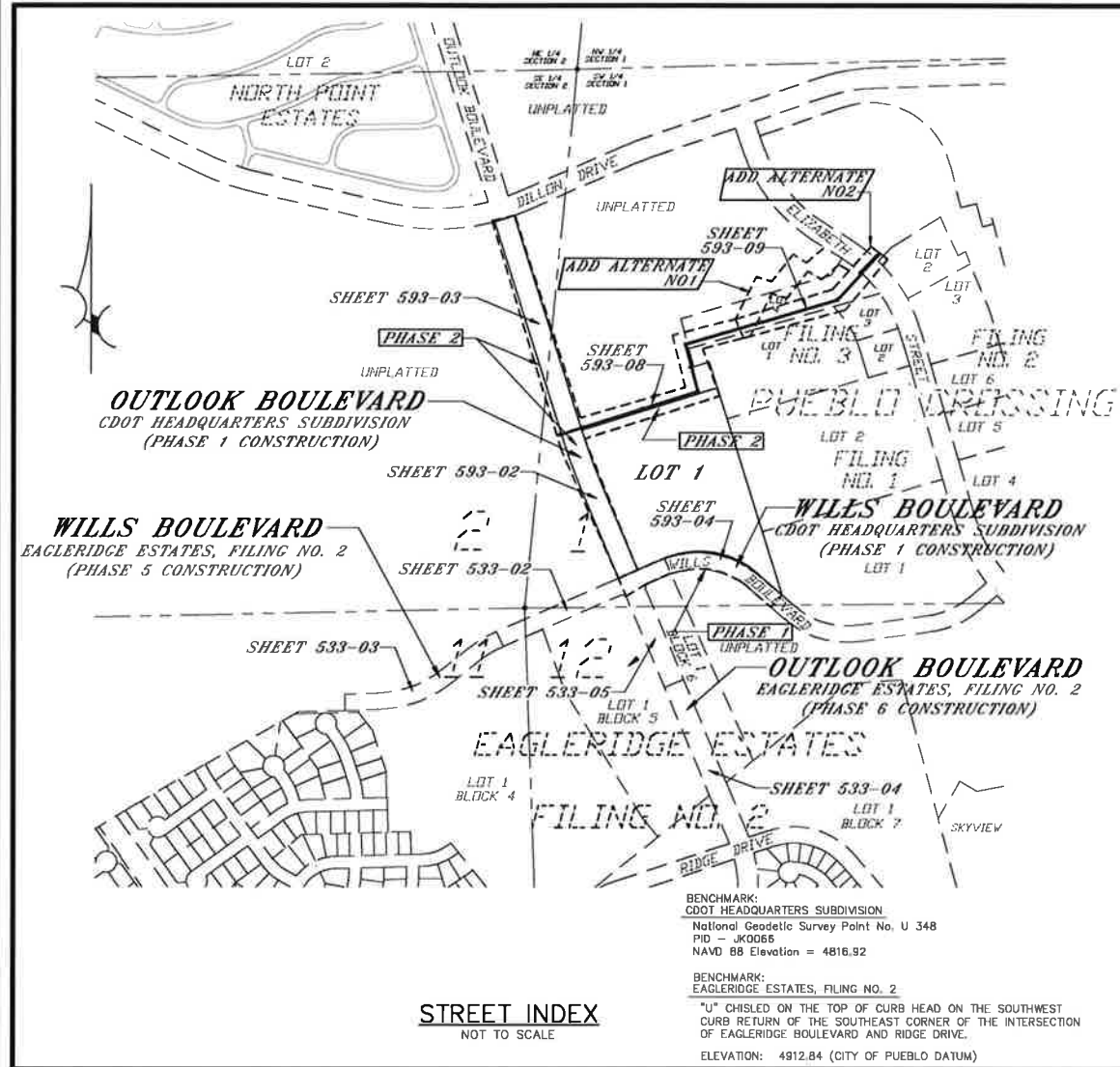
PROJECT NO.	20170699
DRAWN:	1/3/2017
DRAWN BY:	A. Leonard
CHECKED BY:	J. McCall
FILE NAME:	Fig2_ExplorationLocation.mxd

EXPLORATION LOCATION PLAN
OUTLOOK BOULEVARD SEWER LINE SOUTH OF DILLON DRIVE PUEBLO, COLORADO

FIGURE
2

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CDOT HEADQUARTERS SUBDIVISION



CITY OF PUEBLO STANDARD SPECIFICATIONS

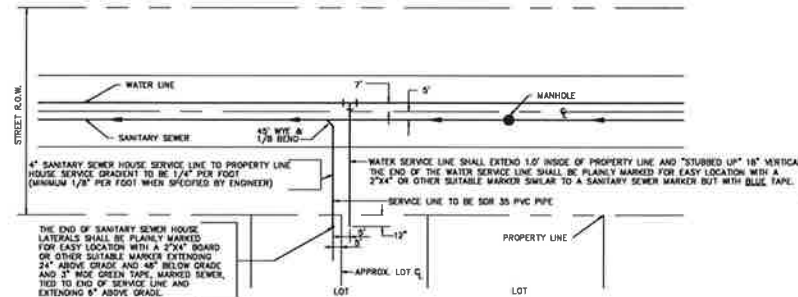
- ARTICLE 4 - CONCRETE
- ARTICLE 5 - CONCRETE CURB & GUTTER
- ARTICLE 6 - CONCRETE SIDEWALK AND DRIVEWAYS
- ARTICLE 7 - CONCRETE PAVEMENT
- ARTICLE 8 - AGGREGATE BASE CONSTRUCTION
- ARTICLE 9 - EARTHWORK
- ARTICLE 10 - HOT BITUMINOUS PAVEMENT
- ARTICLE 11 - PLANT MIXED SEAL COAT (ASPHALTIC OVERLAY)
- ARTICLE 12 - SANITARY SEWERS
- ARTICLE 13 - STORM SEWERS
- ARTICLE 14 - EXCAVATION WITHIN PUBLIC RIGHT OF WAY

SHEET INDEX

SHEET NO.	TITLE
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593-03	OUTLOOK BOULEVARD
593-04	WILLS BOULEVARD
593-05	OUTLOOK BOULEVARD STRIPING PLAN
593-06	OUTLOOK BOULEVARD STRIPING PLAN
593-07	WILLS BOULEVARD STRIPING PLAN
593-08	OUTLOOK BOULEVARD STORM SEWER OUTFALL
593-09	OUTLOOK BOULEVARD STORM SEWER OUTFALL
593-10	STORM SEWER DETAILS AND BMP NOTES
593-11	EFFLUENT DRAINAGE DETAILS

SUPPLEMENTAL SHEET INDEX

SHEET NO.	TITLE
533-01	TITLE SHEET (EAGLERIDGE ESTATES, FILING NO. 2)
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533-03	WILLS BOULEVARD (EAGLERIDGE ESTATES, FILING NO. 2)
533-04	OUTLOOK BOULEVARD (EAGLERIDGE ESTATES, FILING NO. 2)
533-05	OUTLOOK BOULEVARD (EAGLERIDGE ESTATES, FILING NO. 2)
533-06	OUTLOOK BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-07	OUTLOOK BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-08	OUTLOOK BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-09	OUTLOOK BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-10	OUTLOOK BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-11	WILLS BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)
533-12	WILLS BOULEVARD STRIPING PLAN (EAGLERIDGE ESTATES, FILING NO. 2)

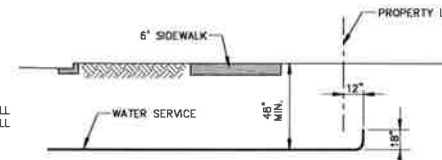


GENERAL NOTES:

- ELEVATIONS SHOWN ARE FLOW LINE GUTTER EXCEPT AS NOTED.
- PROFILE STATIONING IS BASED ON CENTERLINE OF R.O.W. EXCEPT AS NOTED.
- 20' CURB RADIUS AT INTERSECTIONS EXCEPT AS NOTED.
- (C) = EXISTING ELEVATION
BC = BEGINNING CURVE
CR = CURB RETURN
EC = END CURVE
RC = REVERSE CURVE
GB = GRADE BREAK
PVC = POINT VERTICAL CURVE
PVI = POINT VERTICAL INTERSECT
PVT = POINT VERTICAL TANGENT
F.E.S. = FLARED END SECTION
- FOR PAVEMENT DESIGN, CURB AND GUTTER AND SIDEWALK, SEE INDIVIDUAL SHEETS.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- SANITARY SEWER CUT SHEETS WILL NOT BE PREPARED AND SUBMITTED TO THE CITY UNTIL SUCH TIME AS EXISTING SANITARY SEWER STUBS HAVE BEEN "POT HOLED" AND INVERT ELEVATIONS FIELD VERIFIED BY THE CONTRACTOR.
- DESIGN AND INSTALLATION TOLERANCES FOR ON-SITE UTILITIES IS CRITICAL. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING UTILITY INSTALLATION TO INSURE THAT DESIGN GRADES ON ALL UTILITIES IS MET. FAILURE TO CONFORM TO DESIGN ELEVATIONS MAY RESULT IN UTILITY CONFLICTS AND ADDITIONAL COSTS FOR DESIGN, STAKING AND REINSTALLATION TO BE BORN SOLELY BY THE CONTRACTOR.
- ALL NEW CONSTRUCTION TO CONFORM TO "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR CITY OF PUEBLO, COLORADO (MARCH 28, 2005)". ANY ASPHALT REMOVED IS TO BE REPLACED TO MEET CITY OF PUEBLO STANDARD SPECIFICATIONS.
- FOR HANDICAP RAMPS AT ALL STREET INTERSECTIONS, REFER TO STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR CITY OF PUEBLO, COLORADO. SHEET NO. SD6.
- SANITARY SEWER WYES ARE LOCATED AS SHOWN ON TITLE SHEET EXCEPT AS NOTED ON INDIVIDUAL SHEETS. WYES ARE TO BE 4" EXCEPT AS NOTED.
- SANITARY SEWER SERVICES SHALL BE SDR 35 PVC PIPE.
- ALL SANITARY SEWER PIPE LENGTHS ARE FROM INSIDE WALL OF MANHOLE TO INSIDE WALL OF MANHOLE.
- ALL JOINTS ON SANITARY SEWER PIPE AT CROSSINGS SHALL BE NO CLOSER THAN 10' FROM EXISTING OR PROPOSED WATER MAINS.
- SEE "STORM DRAINAGE DESIGN CRITERIA AND DRAINAGE POLICIES FOR THE CITY OF PUEBLO, COLORADO (JUNE 9, 1997)".
- ALL STORM DRAIN PIPES ARE TRUE LINEAL FEET OF PIPE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DETAILS WITH THE CITY OF PUEBLO, DEPARTMENT OF PUBLIC WORKS, PRIOR TO CONSTRUCTION.
- ALL MANHOLE, VALVE BOX, AND MONUMENT BOX CONSTRUCTION SHALL INCLUDE ASPHALT COLLARS PER CITY OF PUEBLO STANDARD DETAILS.
- WATER LINE INSTALLATION WILL BE UNDER WATER BOARD INSPECTION AND ALL CROSSINGS WITH SANITARY SEWER SHALL HAVE A MINIMUM SEPARATION OF 18" ABOVE SANITARY SEWER LINE, EXCEPT AS NOTED ON INDIVIDUAL SHEETS. JOINTS IN WATER LINE PIPES SHALL NOT BE CLOSER THAN 3 FEET TO EITHER SIDE OF THE SANITARY SEWER CROSSING. ALL WATER SERVICE LINES SHALL BE 1" TYPE K COPPER UNLESS NOTED OTHERWISE.
- CENTER 20' LENGTHS OF STORM SEWER OVER WATER LINES OR ENCASE JOINTS WITH CONCRETE.
- SEE WATER BOARD SHEETS FOR GENERAL NOTES AND DETAILS.
- HDPE PIPE MANUFACTURED BY ADS (NO SUBSTITUTIONS) WILL BE ALLOWED AS A SUBSTITUTE FOR RCP STORM SEWER PIPE AT THE OWNERS OPTION. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH STANDARDS AS ESTABLISHED BY THE CITY OF PUEBLO, DEPARTMENT OF PUBLIC WORKS.
- HIGH DEFLECTION COUPLINGS MAY BE REQUIRED FOR CONSTRUCTION OF HORIZONTAL AND VERTICAL CURVES IN WATER MAINS. SEE TABLE 1 HEREON, PLANS AND NOTE 11 ON BOARD OF WATER WORKS GENERAL DETAIL SHEET 1.
- DISCREPANCIES MAY EXIST BETWEEN THESE PLANS OR BETWEEN THESE PLANS AND FIELD CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE ENTIRE SET OF CONSTRUCTION PLANS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL PLACE THE ENTIRE RESPONSIBILITY AND COSTS ASSOCIATED FOR RESOLUTION OF ANY CONFLICTS SOLELY UPON THE CONTRACTOR.
- ALL STORM SEWER INSTALLED SHALL BE CLEANED AND CAMERA INSPECTED. PROVIDE CITY WITH VIDEO AND LOG FOR REVIEW AND ACCEPTANCE.
- SEE SHEET 10 FOR THE BMP NOTES AND STORM SEWER DETAILS.

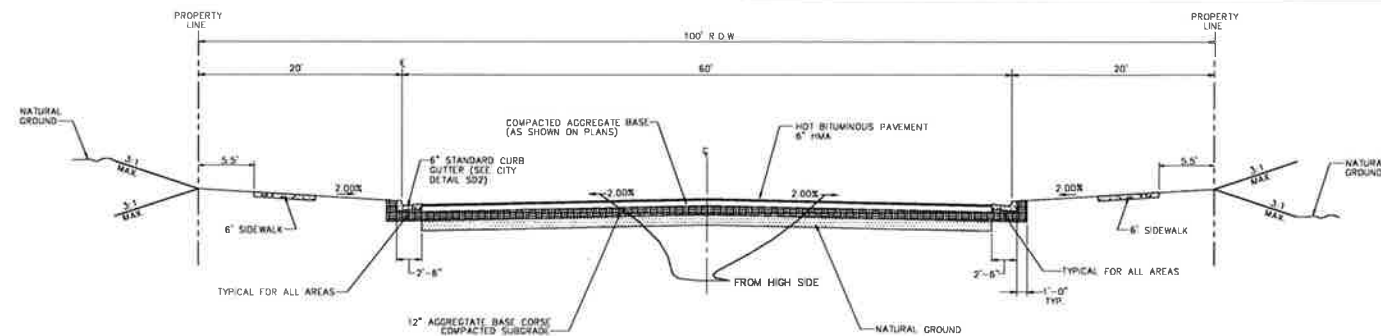
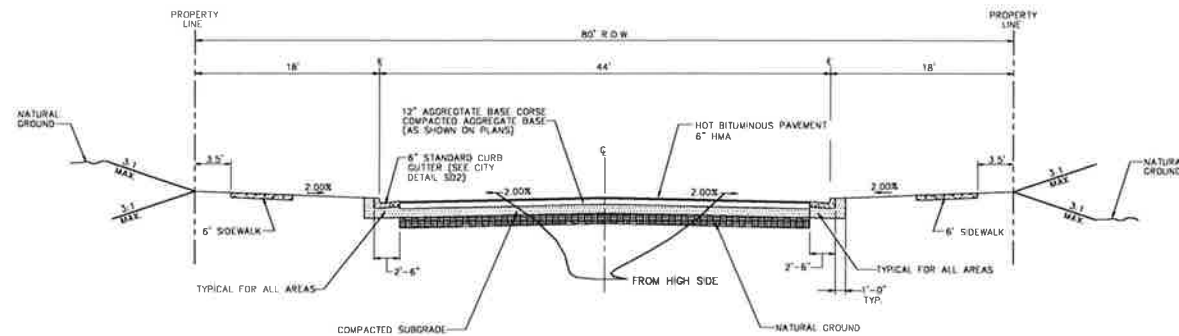
TABLE 1

WATER MAIN RADIUS	MAXIMUM LENGTH BETWEEN COUPLINGS
200' - 229'	20'
230' - 343'	30'
344' - 458'	40'
459' - 573'	50'
574' - 687'	60'
688' - 802'	70'
803' - 917'	80'
918' - 1031'	90'
1032' - 1146'	100'



STREET PAVEMENT SECTION

STREET NAME	CITY OF PUEBLO DEFAULT COMPOSITE SECTION	CITY OF PUEBLO DEFAULT FULL DEPTH SECTION	ALTERNATE DESIGN SECTION
OUTLOOK BOULEVARD	6" ON 12"		
WILLS BOULEVARD	6" ON 12"		



THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			Δ		
			Δ		
			Δ		

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS

PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION

SHEET TITLE: TITLE SHEET

NORTHSTAR ENGINEERING AND SURVEYING, INC.
111 E. 8TH ST., PUEBLO, CO. 81001
(719) 244-8888 FAX (719) 244-8889

PREPARED UNDER THE DIRECT SUPERVISION OF
KIM KLAYTON KOCK, P.E.,
COLORADO REGISTRATION NO. 19799.

SCALE: AS SHOWN

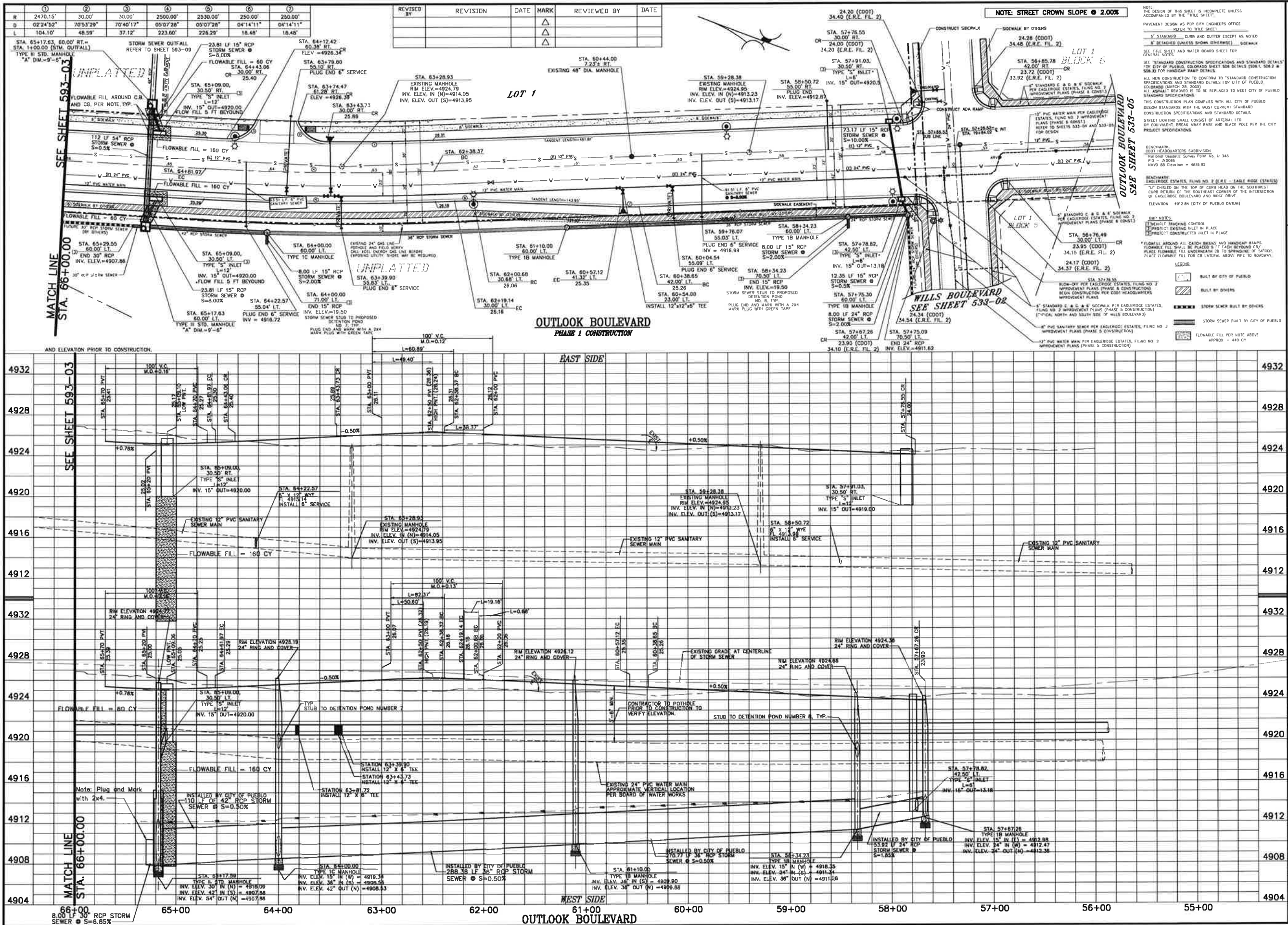
DATE: 11-03-16

DESIGN BY: JCS/MJC
DRAWN BY: DJA

CHECKED BY: KKK
FILE: 593-01.DWG

JOB NO. 1502801

593
SHEET 1 OF 11



STATION	1	2	3	4	5	6	7
R	2470.15'	30.00'	30.00'	2500.00'	2530.00'	2500.00'	2500.00'
D	02°24'52"	70°53'29"	70°40'17"	05°07'28"	05°07'28"	04°14'11"	04°14'11"
L	104.10'	48.59'	37.12'	223.60'	226.29'	18.48'	18.48'

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			△		
			△		

NOTE: STREET CROWN SLOPE @ 2.00%

THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".
 PAVEMENT DESIGN AS PER CITY ENGINEERS OFFICE REFER TO TITLE SHEET.
 * STANDARD CURB AND GUTTER EXCEPT AS NOTED.
 * DESIGNED UNLESS OTHERWISE NOTED. * SIDEWALK.
 SEE TITLE SHEET AND WATER BOARD SHEET FOR GENERAL NOTES.
 ALL NEW CONSTRUCTION TO CONFORM TO STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR CITY OF PUEBLO, COLORADO SHEET 508 DETAILS (BOOK 2, SHEET 2) FOR HANDICAP RAMP DETAILS.
 THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.
 STREET LIGHTING SHALL CONSIST OF ARTERIAL LED OR EQUIVALENT BREAK AWAY BASE AND BLACK POLE PER THE CITY PROJECT SPECIFICATIONS.
 BENCHMARK: CDOT HEADQUARTERS SUBDIVISION
 "NORTH STAR" SURVEY POINT 35, U 348
 PD - JACOBS
 NAVD 83 Elevation = 4818.92
 BENCHMARK: EASTLORGE ESTATES, PLING NO. 2 (E.E. - SABLE ROCK ESTATES)
 "C" CHISEL ON THE TOP OF CURB HEAD ON THE SOUTHWEST CORNER OF THE SOUTHEAST CORNER OF THE INTERSECTION OF EASTLORGE BOULEVARD AND WICK DRIVE.
 ELEVATION = 4912.84 (CITY OF PUEBLO DATUM)
 RMP NOTES:
 * VEHICLE TRACKING CONTROL.
 * PROJECT EXISTING INLET IN PLACE.
 * PROJECT CONSTRUCTED INLET IN PLACE.
 * FLOWABLE FILL AROUND ALL CATCH BASINS AND HANDICAP RAMPS.
 * FLOWABLE FILL SHALL BE PLACED 5 FT EACH BEYOND CURB.
 * PLACE FLOWABLE FILL UNDERMATH 23 TO SPRINGING OF 54\"/>

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS FOR WATER WORKS STANDARDS

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS FOR CDOT HEADQUARTERS SUBDIVISION

PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION

SHEET TITLE: OUTLOOK BOULEVARD (STA. 57+66.53 TO STA. 66+00.00)

DATE: 11-03-16

DESIGN BY: JCS/JMLC

DRAWN BY: DJA

CHECKED BY: KK

FILE: 593-02.DWG

JOB NO: 1502801

593

SHEET 2 OF 11

①	②	③	④
R	250.00'	20.00'	250.00'
D	04'14"11"	86'54"47"	04'14"11"
L	18.48'	30.34'	18.48'

NOTE: UNPLANNED TRACKING CONTROL, IMPROVE EXISTING INLET IN PLACE, IMPROVE CONSTRUCTED INLET IN PLACE

NOTE: STREET CROWN SLOPE @ 2.00%

NOTE: THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "FILE SHEET". PAVEMENT DESIGN AS PER CITY ENGINEERS OFFICE REFER TO TITLE SHEET.

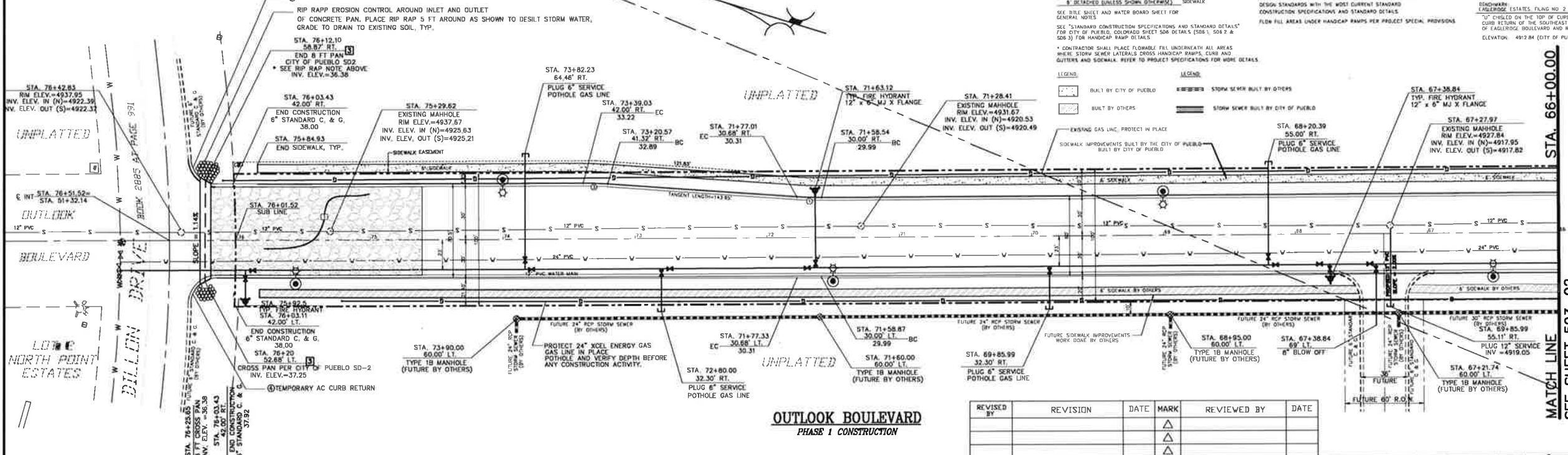
LEGEND:
 BUILT BY CITY OF PUEBLO
 BUILT BY OTHERS

ALL NEW CONSTRUCTION TO CONFORM TO "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR CITY OF PUEBLO, COLORADO (MARCH 28, 2008)". ALL ASPHALT REWORK IS TO BE REPLACED TO MEET CITY OF PUEBLO STANDARD SPECIFICATIONS.

THIS CONSTRUCTION PLAN COMPLETES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

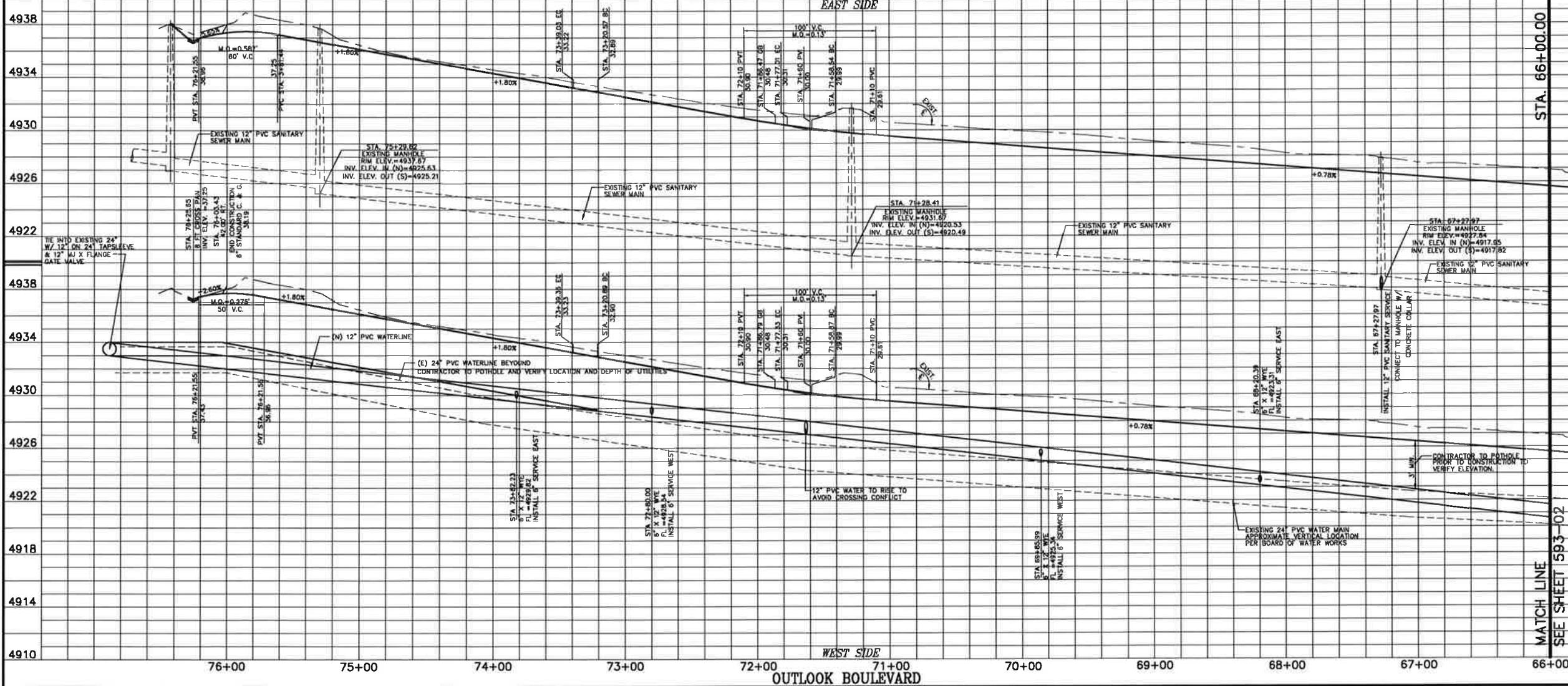
CONTRACTOR SHALL PLACE FLOORABLE FILL UNDERNEATH ALL AREAS WHERE STORM SEWER LATERALS CROSS HANDICAP RAMPS, CURB AND GUTTERS AND SIDEWALK. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAILS.

LEGEND:
 REMEMBER STORM SEWER BUILT BY OTHERS
 STORM SEWER BUILT BY CITY OF PUEBLO



OUTLOOK BOULEVARD
 PHASE 1 CONSTRUCTION

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			▲		
			▲		
			▲		



OUTLOOK BOULEVARD

STA. 66+00.00
 MATCH LINE
 SEE SHEET 593-02

STA. 66+00.00
 MATCH LINE
 SEE SHEET 593-02

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS

CDOT HEADQUARTERS SUBDIVISION

OUTLOOK BOULEVARD
 (STA. 66+00.00 TO STA 76+01.52)

PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION

SHEET TITLE: OUTLOOK BOULEVARD (STA. 66+00.00 TO STA 76+01.52)

NORTHSTAR
 ENGINEERING AND SURVEYING, INC.
 111 S. WASHINGTON ST., SUITE 200, PUEBLO, CO 81001
 (719) 243-1111

PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.

HOR. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'

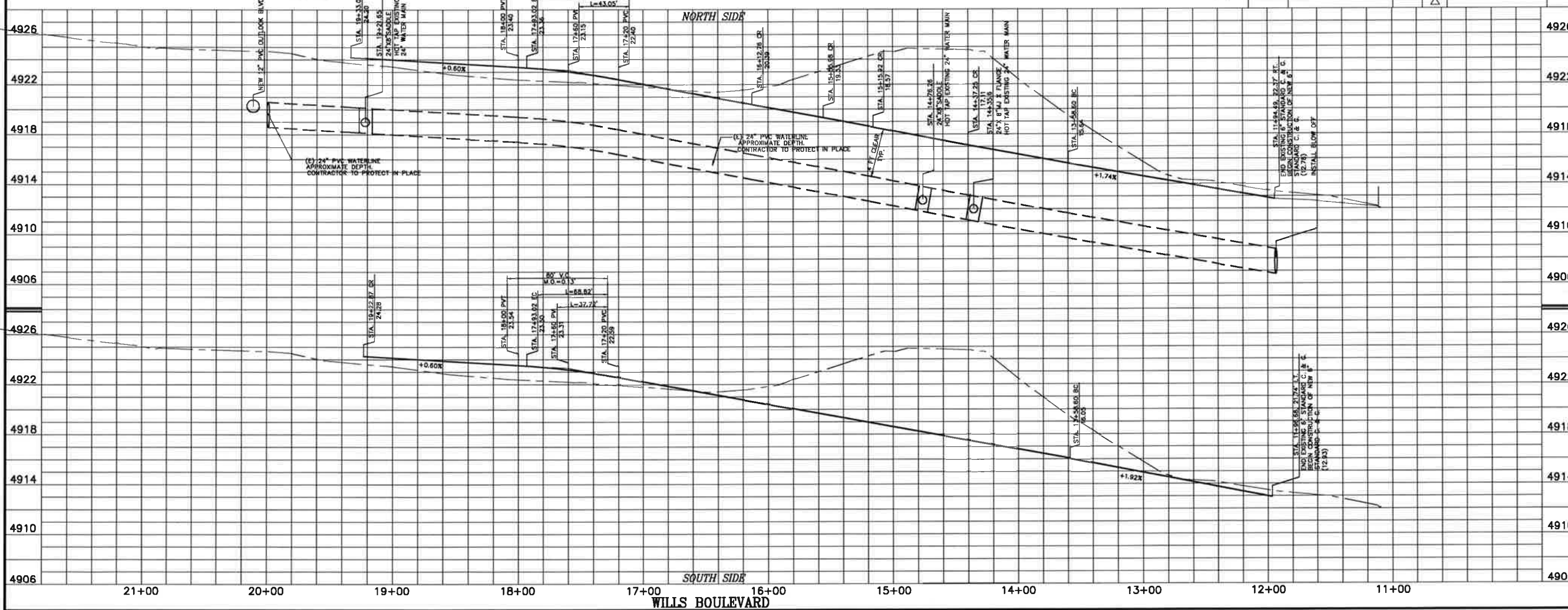
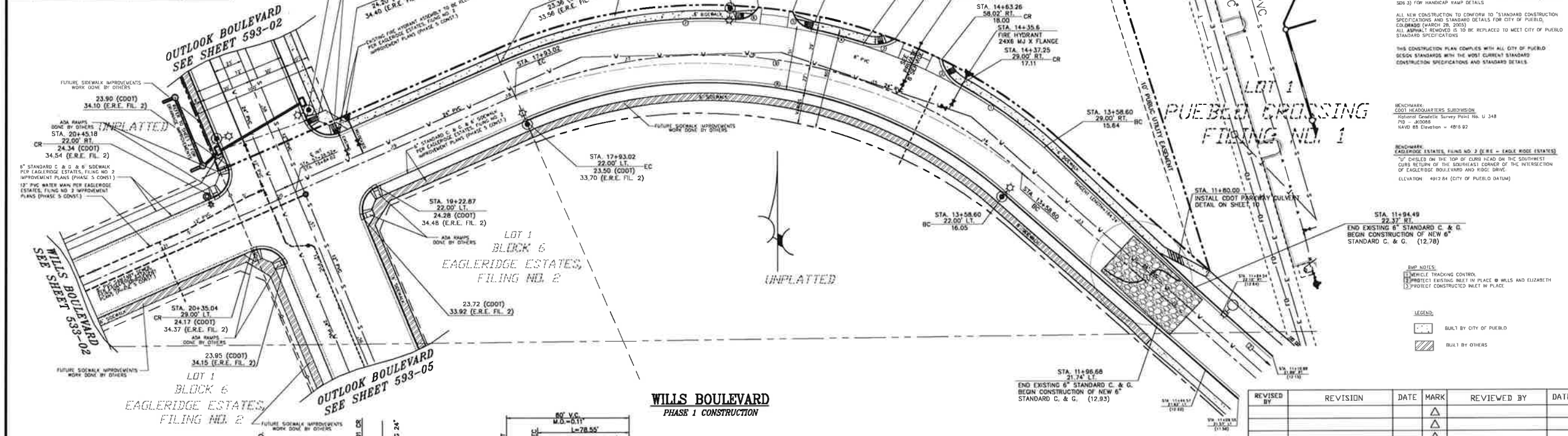
DATE: 11-03-16
 DESIGN BY: JCS/M.L.C
 DRAWN BY: D.J.A

CHECKED BY: KK
 FILE: 593-03.DWG

JOB NO. 1502801

593
 SHEET 3 OF 11

1	2	3	4	5
R	411.44'	30'	30'	410.22'
D	11'46'58"	48'10'48"	48'12'34"	8'6'49"
L	84.61'	25.75'	44.95'	43.77'
	6	7	8	9
R	20'	411.00'	380.44'	382.43'
D	85'40'03"	27'02'09"	85'05'01"	65'05'04"
L	29.90'	193.93'	409.43'	434.42'



NOTE: STREET CROWN SLOPE @ 2.00%

THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE TITLE SHEET
 PAVEMENT DESIGN AS PER CITY ENGINEERS OFFICE REFER TO TITLE SHEET
 6" STANDARD CURB AND GUTTER EXCEPT AS NOTED
 SEE TITLE SHEET AND WATER BOARD SHEET FOR GENERAL NOTES
 SEE "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO COLORADO SHEET 508 DETAILS (508.1, 508.2 & 508.3) FOR HANDICAP RAMP DETAILS
 ALL NEW CONSTRUCTION TO CONFORM TO "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO COLORADO (MARCH 09, 2003)
 ALL ASPHALT REMOVED IS TO BE REPLACED TO MEET CITY OF PUEBLO STANDARD SPECIFICATIONS
 THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO SECTION STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS
 BENCHMARK: CDOT HEADQUARTERS SUBDIVISION
 National Geographic Survey Point No. U 348
 710 - JACOBS
 NAVD 83 Elevation = 4815.82
 BENCHMARK: EAGLERIDGE ESTATES, FOUND NO. 2 (E.R.E. - EAGLE RIDGE ESTATES)
 "U" CHISEL ON THE TOP OF CURB HEAD ON THE SOUTHWEST CORNER NEARBY OF THE SOUTHWEST CORNER OF THE INTERSECTION OF EAGLERIDGE BOULEVARD AND RIDGE DRIVE.
 ELEVATION: 4912.84 (CITY OF PUEBLO DATUM)
 STA. 11+94.49
 22.37 RT.
 END EXISTING 6" STANDARD C. & G.
 BEGIN CONSTRUCTION OF NEW 6" STANDARD C. & G. (12.78)
 B.M.P. NOTES:
 1. VEHICLE TRACKING CONTROL
 2. PROTECT EXISTING INLET IN PLACE @ WILLS AND ELIZABETH
 3. PROTECT CONSTRUCTED INLET IN PLACE
 LEGEND:
 BUILT BY CITY OF PUEBLO
 BUILT BY OTHERS

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			▲		
			▲		
			▲		

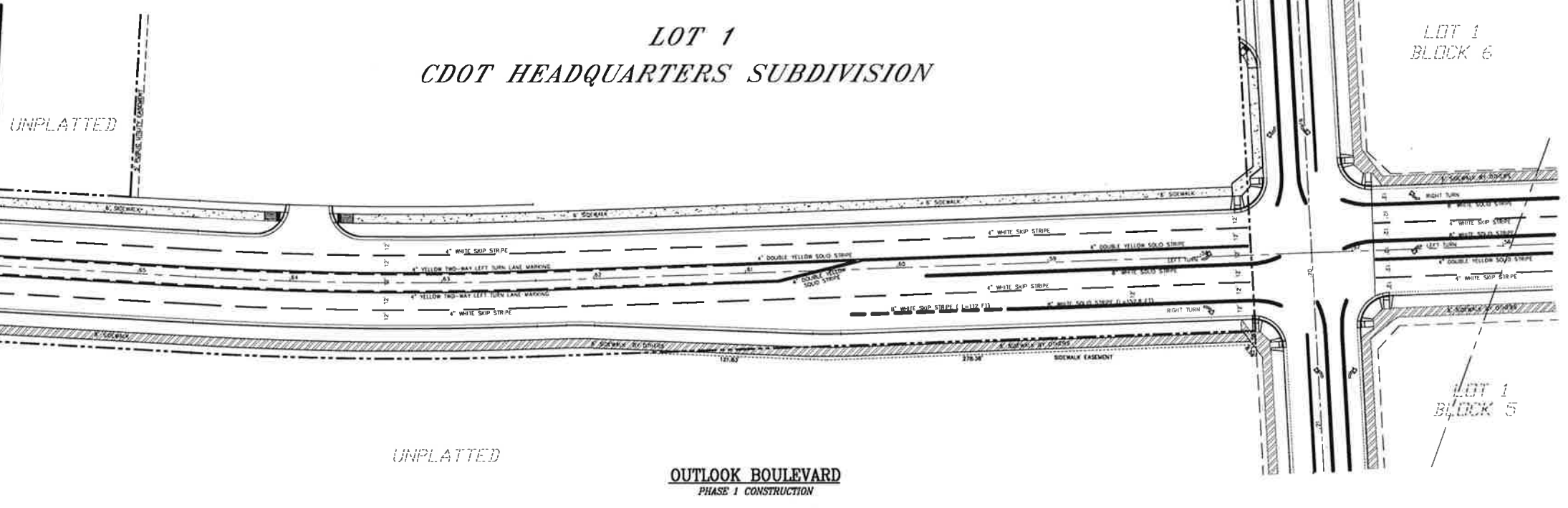
REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS FOR WATER WORKS STANDARDS
 BY: _____ DATE: _____
 REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS
 GENERAL: _____ DATE: _____
 SANITARY SEWER: _____ DATE: _____
 DRAINAGE: _____ DATE: _____
 TRANSPORTATION: _____ DATE: _____
 CDOT HEADQUARTERS SUBDIVISION
 WILLS BOULEVARD
 (STA. 11+94.00 TO STA. 19+84.02)
 PROJECT NAME: _____ SHEET TITLE: _____
 NORTHSTAR ENGINEERING AND SURVEYING, INC.
 111 E. WYOMING ST., SUITE 100, PUEBLO, CO 81001
 TEL: (719) 244-8888 FAX: (719) 244-8889
 PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.
 HOR. SCALE: 1"=40'
 VERT. SCALE: 1"=4'
 DATE: 11-3-16
 DESIGN BY: JCS/MLC
 DRAWN BY: DJA
 CHECKED BY: KK
 FILE: 593-04.DWG
 JOB NO. 1502801
 593
 SHEET 4 OF 11

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			△		
			△		
			△		

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS
 BY: _____ DATE: _____

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS
 GENERAL: _____ DATE: _____
 SANITARY SEWER: _____ DATE: _____
 DRAINAGE: _____ DATE: _____
 TRANSPORTATION: _____ DATE: _____

SEE SHEET 593-07
 MATCH LINE
 STA. 66+00.00



UNPLATTED
OUTLOOK BOULEVARD
 PHASE 1 CONSTRUCTION

CDOT HEADQUARTERS SUBDIVISION
 OUTLOOK BOULEVARD STRIPING PLAN

PROJECT NAME
 SHEET TITLE



PREPARED UNDER THE DIRECT SUPERVISION OF
 KIM KLAYTON KOCK, P.E.
 COLORADO REGISTRATION NO. 19799

HOR. SCALE: 1"=40'
 VERT. SCALE: 1"=4'
 DATE: 11-03-16
 DESIGN BY: MLC
 DRAWN BY: DJJA
 CHECKED BY: KK
 FILE: 593-05.DWG

JOB NO. 1502801
593
 SHEET 5 OF 11

SHEET NOTES:

- (1) ALL SIGN AND STRIPING WORK TO BE PERFORMED PER CITY OF PUEBLO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- (2) ALL TRAFFIC CONTROL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- (3) ALL PAVEMENT MARKING ARROWS SHALL BE "FHWA NARROW" DESIGN.
- (4) ALL PAVEMENT MARKING SYMBOLS SHALL BE PREFORMED THERMO PLASTIC.
- (5) PAVEMENT MARKING MATERIAL ON OUTLOOK BOULEVARD SHALL BE 3M IN-LAY TAPE SERIES 3990 STARMARK.

LEGEND:

	BUILT BY CITY OF PUEBLO
	BUILT BY OTHERS

BENCHMARK:
 CDOT HEADQUARTERS SUBDIVISION
 National Geodetic Survey Point No. U 348
 PID - JK0066
 NAVD 88 Elevation = 4816.92

BENCHMARK:
 EAGLERIDGE ESTATES, FILING NO. 2 (E.R.E.)
 "U" CHISEL ON THE TOP OF CURB HEAD ON THE SOUTHWEST CURB RETURN OF THE SOUTHEAST CORNER OF THE INTERSECTION OF EAGLERIDGE BOULEVARD AND RIDGE DRIVE.
 ELEVATION: 4912.84 (CITY OF PUEBLO DATUM)

NOTE:
 THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			△		
			△		
			△		

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS
 BY: _____ DATE: _____

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS
 GENERAL: _____ DATE: _____
 SANITARY SEWER: _____ DATE: _____
 DRAINAGE: _____ DATE: _____
 TRANSPORTATION: _____ DATE: _____

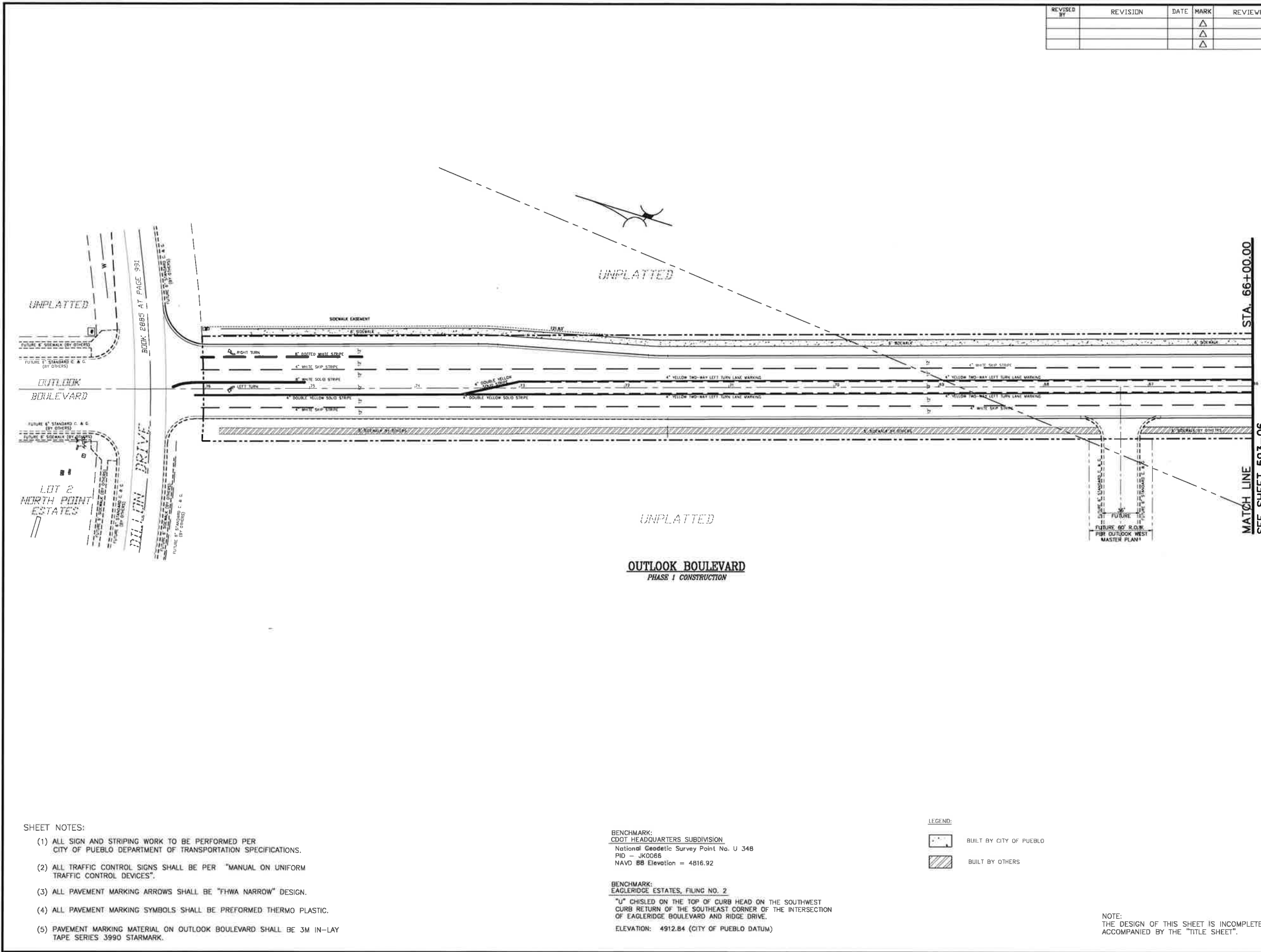
CDOT HEADQUARTERS SUBDIVISION
 OUTLOOK BOULEVARD STRIPING PLAN

PROJECT NAME: _____
 SHEET TITLE: _____



PREPARED UNDER THE DIRECT SUPERVISION OF
 KIM KLAYTON KOCK, P.E.,
 COLORADO REGISTRATION NO. 19799.

HOR. SCALE: 1"=40'
 VERT. SCALE: 1"=4'
 DATE: 11-03-16
 DESIGN BY: MLC
 DRAWN BY: DJA
 CHECKED BY: KK
 FILE: 593-06.DWG
 JOB NO. 1502801
593
 SHEET 6 OF 11



- SHEET NOTES:
- (1) ALL SIGN AND STRIPING WORK TO BE PERFORMED PER CITY OF PUEBLO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 - (2) ALL TRAFFIC CONTROL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - (3) ALL PAVEMENT MARKING ARROWS SHALL BE "FHWA NARROW" DESIGN.
 - (4) ALL PAVEMENT MARKING SYMBOLS SHALL BE PREFORMED THERMO PLASTIC.
 - (5) PAVEMENT MARKING MATERIAL ON OUTLOOK BOULEVARD SHALL BE 3M IN-LAY TAPE SERIES 3990 STARMARK.

BENCHMARK:
 CDOT HEADQUARTERS SUBDIVISION
 National Geodetic Survey Point No. U 348
 PID - JK0066
 NAVD 88 Elevation = 4816.92

BENCHMARK:
 EAGLERIDGE ESTATES, FILING NO. 2
 "U" CHISLED ON THE TOP OF CURB HEAD ON THE SOUTHWEST CURB RETURN OF THE SOUTHEAST CORNER OF THE INTERSECTION OF EAGLERIDGE BOULEVARD AND RIDGE DRIVE.
 ELEVATION: 4912.84 (CITY OF PUEBLO DATUM)

LEGEND:
 BUILT BY CITY OF PUEBLO
 BUILT BY OTHERS

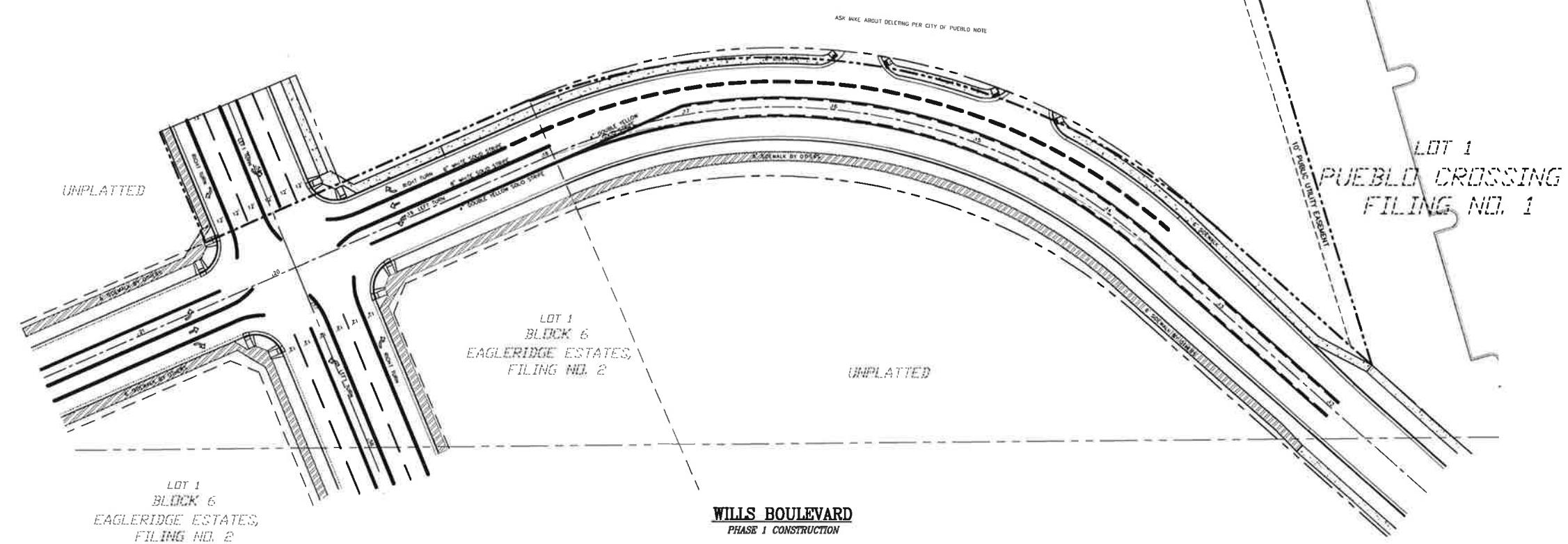
NOTE:
 THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".

REVISION	BY	DATE	MARK	REVIEWED BY	DATE
			△		
			△		
			△		

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS
 BY: _____ DATE: _____

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS
 GENERAL: _____ DATE: _____
 SANITARY SEWER: _____ DATE: _____
 DRAINAGE: _____ DATE: _____
 TRANSPORTATION: _____ DATE: _____

LOT 1
CDOT HEADQUARTERS SUBDIVISION



CDOT HEADQUARTERS SUBDIVISION
 OUTLOOK BOULEVARD STRIPING PLAN

PROJECT NAME: _____
 SHEET TITLE: _____



PREPARED UNDER THE DIRECT SUPERVISION OF
 KIM KLAYTON KOCK, P.E.,
 COLORADO REGISTRATION NO. 19799.

HOR. SCALE: 1"=40'
 VERT. SCALE: 1"=4'
 DATE: 11-03-16
 DESIGN BY: MLC
 DRAWN BY: DJA
 CHECKED BY: KK
 FILE: 593-07.DWG
 JOB NO. 1502801
593
 SHEET 7 OF 11

- SHEET NOTES:
- (1) ALL SIGN AND STRIPING WORK TO BE PERFORMED PER CITY OF PUEBLO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 - (2) ALL TRAFFIC CONTROL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - (3) ALL PAVEMENT MARKING ARROWS SHALL BE "FHWA NARROW" DESIGN.
 - (4) ALL PAVEMENT MARKING SYMBOLS SHALL BE PREFORMED THERMO PLASTIC.
 - (5) PAVEMENT MARKING MATERIAL ON OUTLOOK AND WILLS BOULEVARD SHALL BE 3M IN-LAY TAPE SERIES 3990 STARMARK.

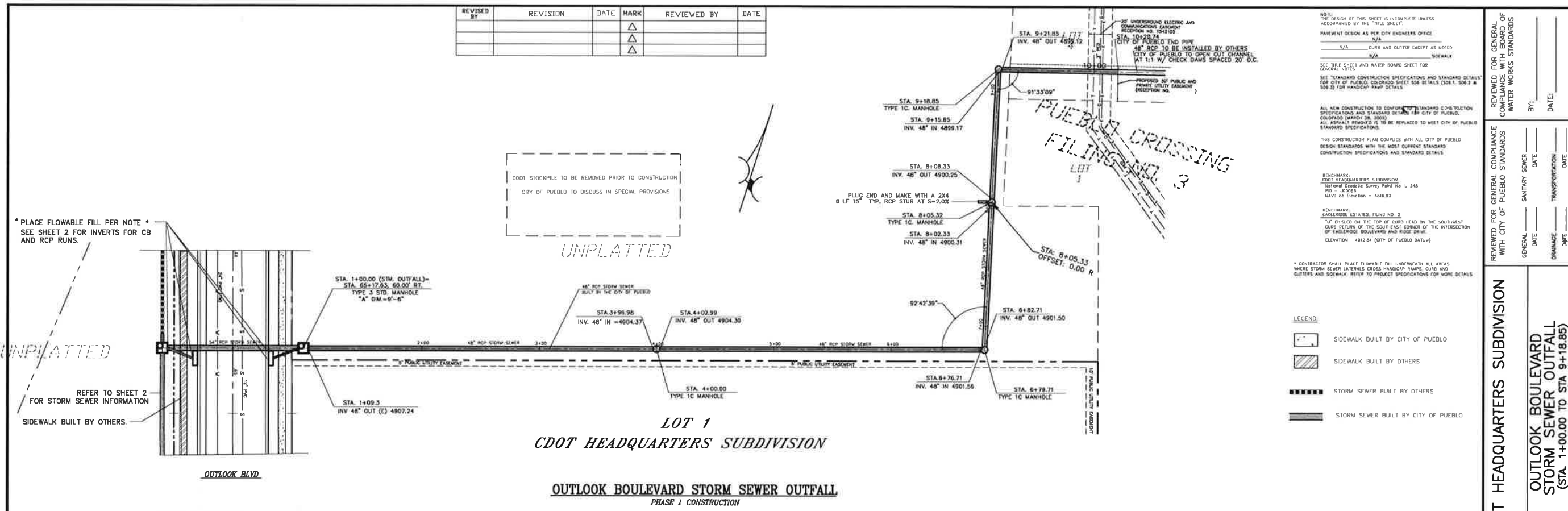
BENCHMARK:
 CDOT HEADQUARTERS SUBDIVISION
 National Geodetic Survey Point No. U 348
 PID - JK0086
 NAVD 88 Elevation = 4816.92

BENCHMARK:
 EAGLERIDGE ESTATES, FILING NO. 2 (E.R.E.)
 "U" CHISLED ON THE TOP OF CURB HEAD ON THE SOUTHWEST CURB RETURN OF THE SOUTHEAST CORNER OF THE INTERSECTION OF EAGLERIDGE BOULEVARD AND RIDGE DRIVE.
 ELEVATION: 4912.84 (CITY OF PUEBLO DATUM)

LEGEND:
 BUILT BY CITY OF PUEBLO
 BUILT BY OTHERS

NOTE:
 THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".

REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			△		
			△		
			△		



* PLACE FLOWABLE FILL PER NOTE *
SEE SHEET 2 FOR INVERTS FOR CB
AND RCP RUNS.

REFER TO SHEET 2
FOR STORM SEWER INFORMATION

NOTE TO CONTRACTOR:
CONTRACTOR TO POTHOLE AND FIELD VERIFY ALL UTILITIES.
PROTECT UTILITY IN PLACE. ALL DEPTH SHOWN ARE APPROXIMATE PER UTILITY COMPANY STANDARDS.

NOTE:
THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS
ACCOMPANIED BY THE "TITLE SHEET".
PAVEMENT DESIGN AS PER CITY ENGINEERS OFFICE
N/A
CURB AND GUTTER EXCEPT AS NOTED
N/A
SIDEWALK
SEE TITLE SHEET AND WATER BOARD SHEET FOR
GENERAL NOTES
SEE STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS
FOR CITY OF PUEBLO, COLORADO SHEET 508 DETAILS (308.1, 508.2 &
508.3) FOR HANDICAP RAMP DETAILS
ALL NEW CONSTRUCTION TO COMPLY WITH STANDARD CONSTRUCTION
SPECIFICATIONS AND STANDARDS OF THE CITY OF PUEBLO,
COLORADO (MARCH 28, 2005)
ALL ASPHALT REMOVED IS TO BE REPLACED TO MEET CITY OF PUEBLO
STANDARD SPECIFICATIONS
THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO
DESIGN STANDARDS WITH THE MOST CURRENT STANDARD
CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS
BENCHMARK:
CDOT HEADQUARTERS SUBDIVISION
National Geodetic Survey Point No. U 348
PD = 420081
NAVD 88 Elevation = 4818.92
BENCHMARK:
EAGLERIDGE ESTATES, PLNG NO. 2
* CHECKED ON THE TOP OF CURB HEAD ON THE SOUTHWEST
CORNER OF THE SOUTHWEST CORNER OF THE INTERSECTION
OF EAGLERIDGE BOULEVARD AND ROSE DRIVE.
ELEVATION = 4812.84 (CITY OF PUEBLO DATUM)

* CONTRACTOR SHALL PLACE FLOWABLE FILL UNDERNEATH ALL AREAS
WHERE STORM SEWER LATERALS CROSS HANDICAP RAMP, CURB AND
GUTTERS AND SIDEWALK. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAILS.

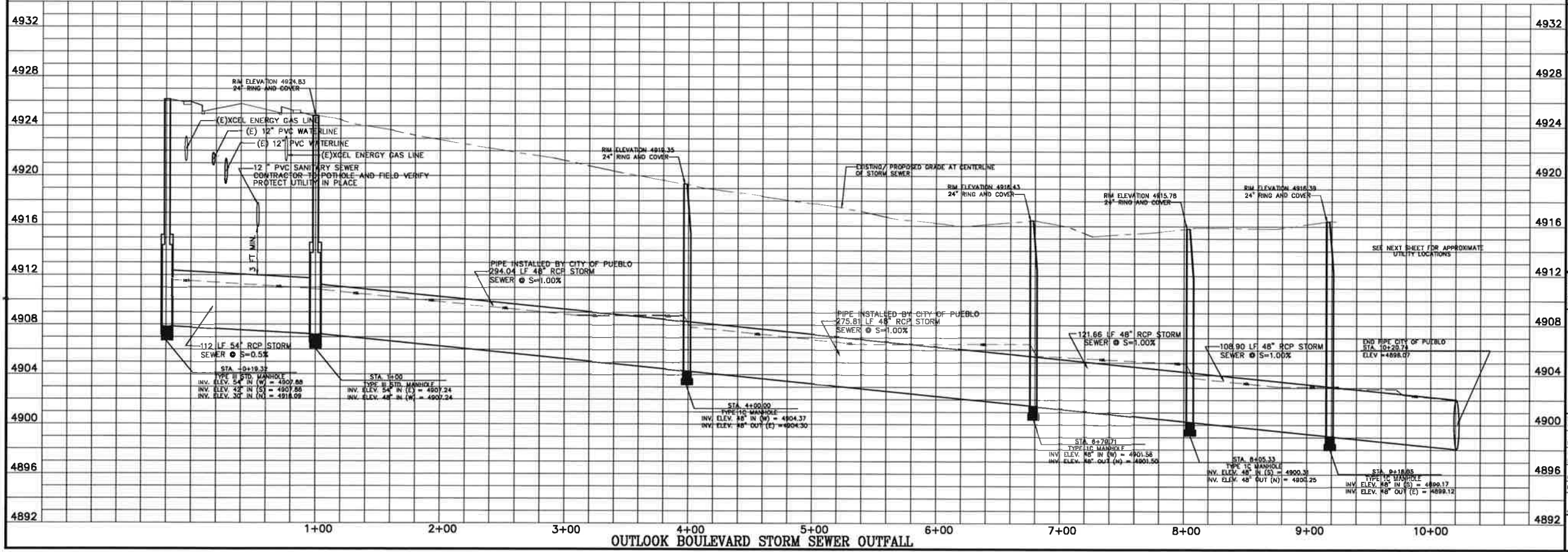
- LEGEND
- SIDEWALK BUILT BY CITY OF PUEBLO
 - SIDEWALK BUILT BY OTHERS
 - STORM SEWER BUILT BY OTHERS
 - STORM SEWER BUILT BY CITY OF PUEBLO

LOT 1
CDOT HEADQUARTERS SUBDIVISION

OUTLOOK BOULEVARD STORM SEWER OUTFALL
PHASE 1 CONSTRUCTION

REVIEWED FOR GENERAL COMPLIANCE
WITH CITY OF PUEBLO STANDARDS
REVIEWED FOR GENERAL COMPLIANCE
WITH CITY OF PUEBLO STANDARDS
COMPLIANCE WITH BOARD OF
WATER WORKS STANDARDS

CDOT HEADQUARTERS SUBDIVISION
OUTLOOK BOULEVARD
STORM SEWER OUTFALL
(STA. 1+00.00 TO STA. 9+18.85)



PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION
SHEET TITLE: OUTLOOK BOULEVARD STORM SEWER OUTFALL (STA. 1+00.00 TO STA. 9+18.85)

4932
4928
4924
4920
4916
4912
4908
4904
4900
4896
4892

1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00

OUTLOOK BOULEVARD STORM SEWER OUTFALL

PREPARED UNDER THE DIRECT SUPERVISION OF
KIM KLAYTON KOCK, P.E.,
COLORADO REGISTRATION NO. 19799

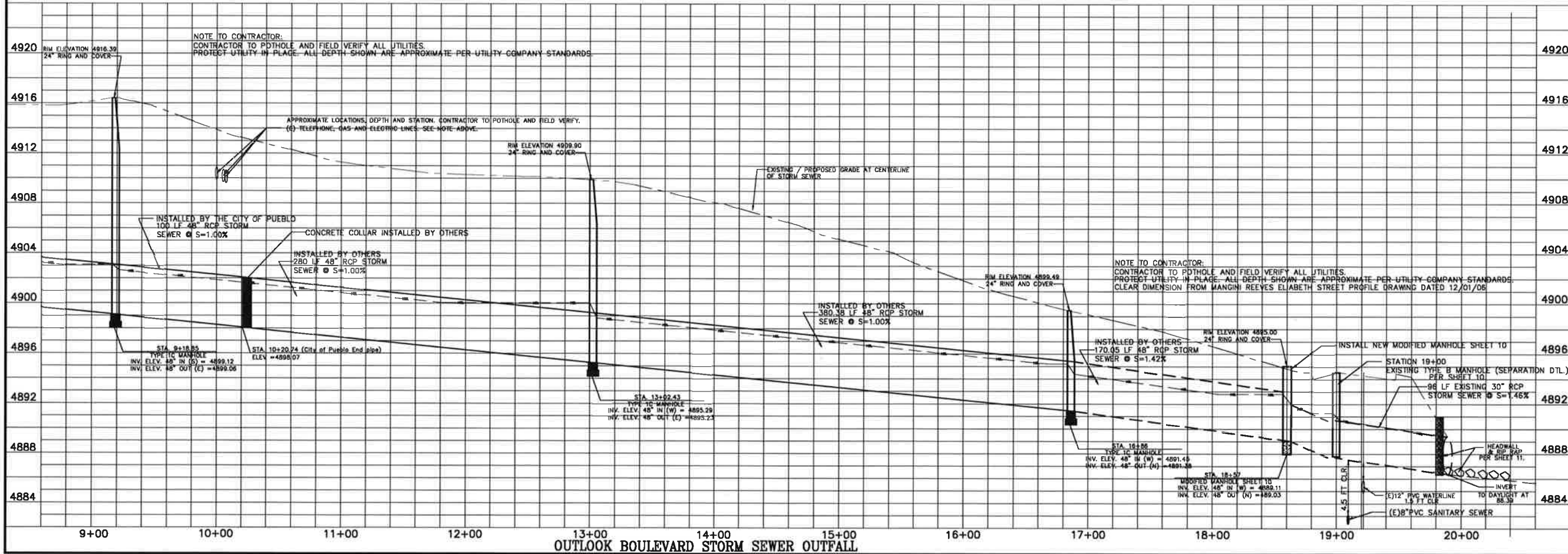
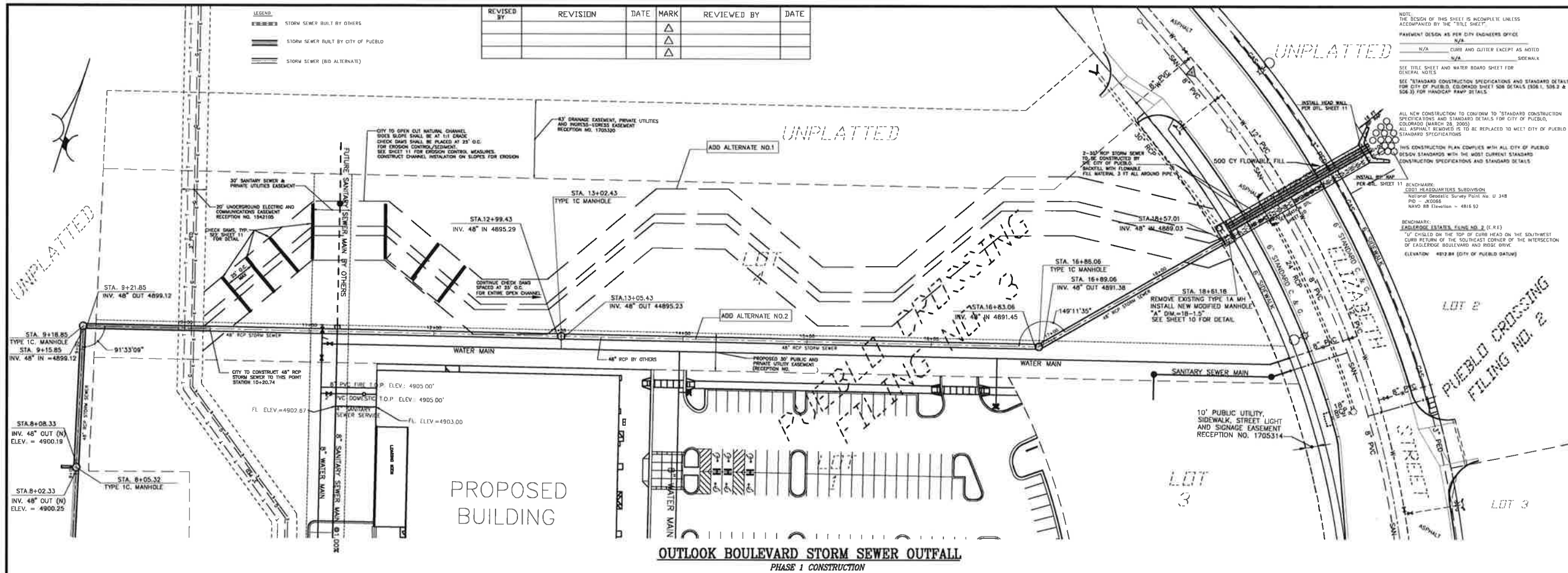
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VERT. SCALE: 1"=4'

DATE: 11-03-16
DESIGN BY: SMC
DRAWN BY: SMC

CHECKED BY: KK
FILE: 583-08.DWG

JOB NO. 1502801
593
SHEET 8 OF 11

NORTHSTAR
ENGINEERING AND SURVEYING, INC.
111 E. 8TH ST., PUEBLO, CO. 81002
PHONE: (719) 244-8888



REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE
			△		
			△		

LEGEND
 --- STORM SEWER BUILT BY OTHERS
 --- STORM SEWER BUILT BY CITY OF PUEBLO
 --- STORM SEWER (RD ALTERNATE)

NOTE: THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".
 PARKING DESIGN AS PER CITY ENGINEERS OFFICE
 N/A CURB AND CLITTER EXCEPT AS NOTED
 N/A SIDEWALK
 SEE TITLE SHEET AND WATER BOARD SHEET FOR GENERAL NOTES
 SEE "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO, COLORADO SHEET SOB DETAILS (S08.1, S08.2 & S08.3) FOR HANDICAP RAMP DETAILS
 ALL NEW CONSTRUCTION TO CONFORM TO "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO, COLORADO (MARCH 28, 2005)
 ALL ASPHALT REMOVED IS TO BE REPLACED TO MEET CITY OF PUEBLO STANDARD SPECIFICATIONS
 THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS
 BENCHMARK: CDOT HEADQUARTERS SUBDIVISION National Geodetic Survey Point No. U 348 PD - 3056 NAVD 88 Elevation = 4816.92
 BENCHMARK: EASLERIDGE ESTATES PLUMBING (E.R.E.) "U" CHISEL ON THE TOP OF CURB HEAD ON THE SOUTHWEST CORNER OF THE SOUTHWEST CORNER OF THE INTERSECTION OF EASLERIDGE BOULEVARD AND RIDGE DRIVE (ELEVATION: 4812.84 (CITY OF PUEBLO DATA))

REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS
 BY: _____ DATE: _____

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS
 GENERAL: _____ DATE: _____
 SANITARY SEWER: _____ DATE: _____
 DRAINAGE: _____ DATE: _____

CDOT HEADQUARTERS SUBDIVISION
OUTLOOK BOULEVARD STORM SEWER OUTFALL
 (STA. 9+18.85 TO STA 19+89)

PROJECT NAME: _____ SHEET TITLE: _____

NORTHSTAR ENGINEERING AND SURVEYING, INC.
 111 E. 8TH ST., PUEBLO, CO. 81001-1111
 TEL: 719.244.8888 FAX: 719.244.8889

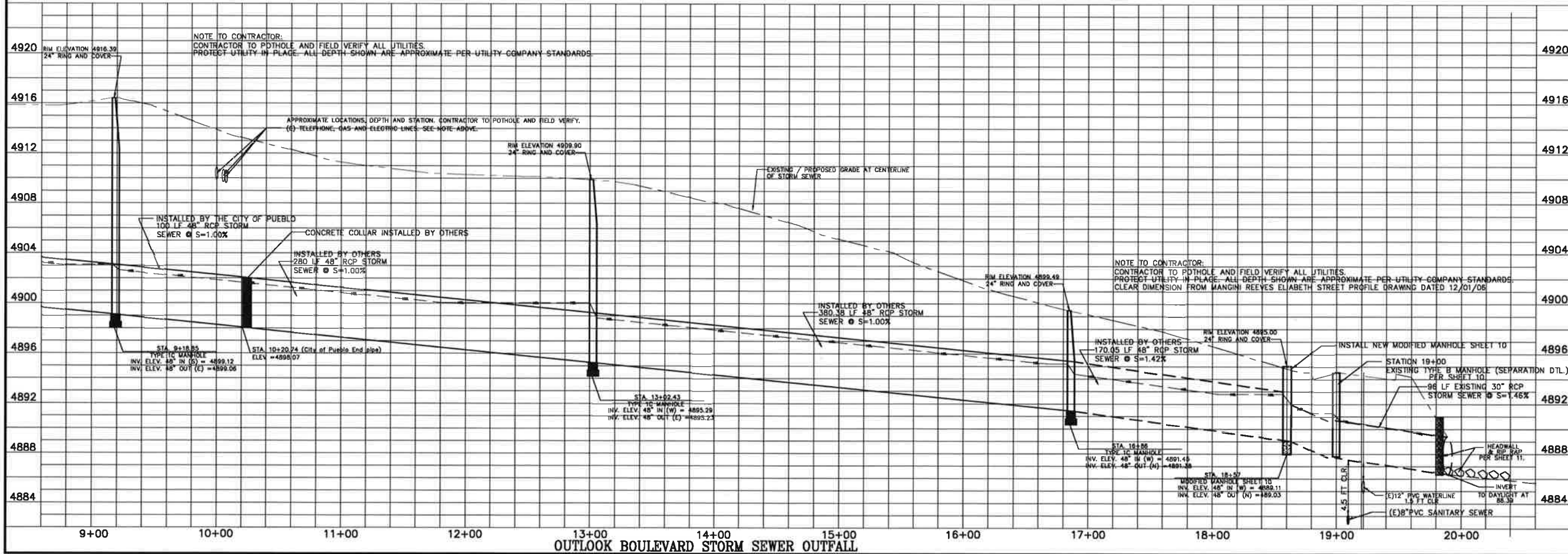
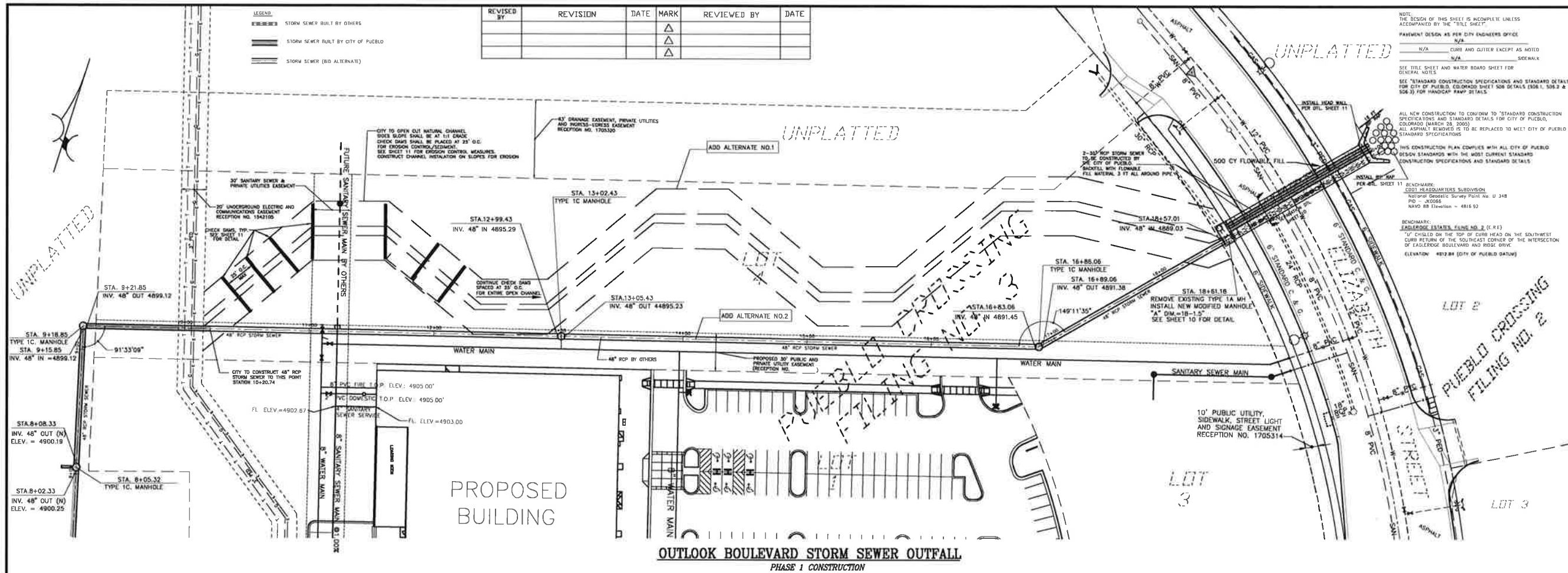
PREPARED UNDER THE DIRECT SUPERVISION OF
 KIM KLAYTON KOCK, P.E.,
 COLORADO REGISTRATION NO. 19799.

HOR. SCALE: 1"=40'
 VERT. SCALE: 1"=4'

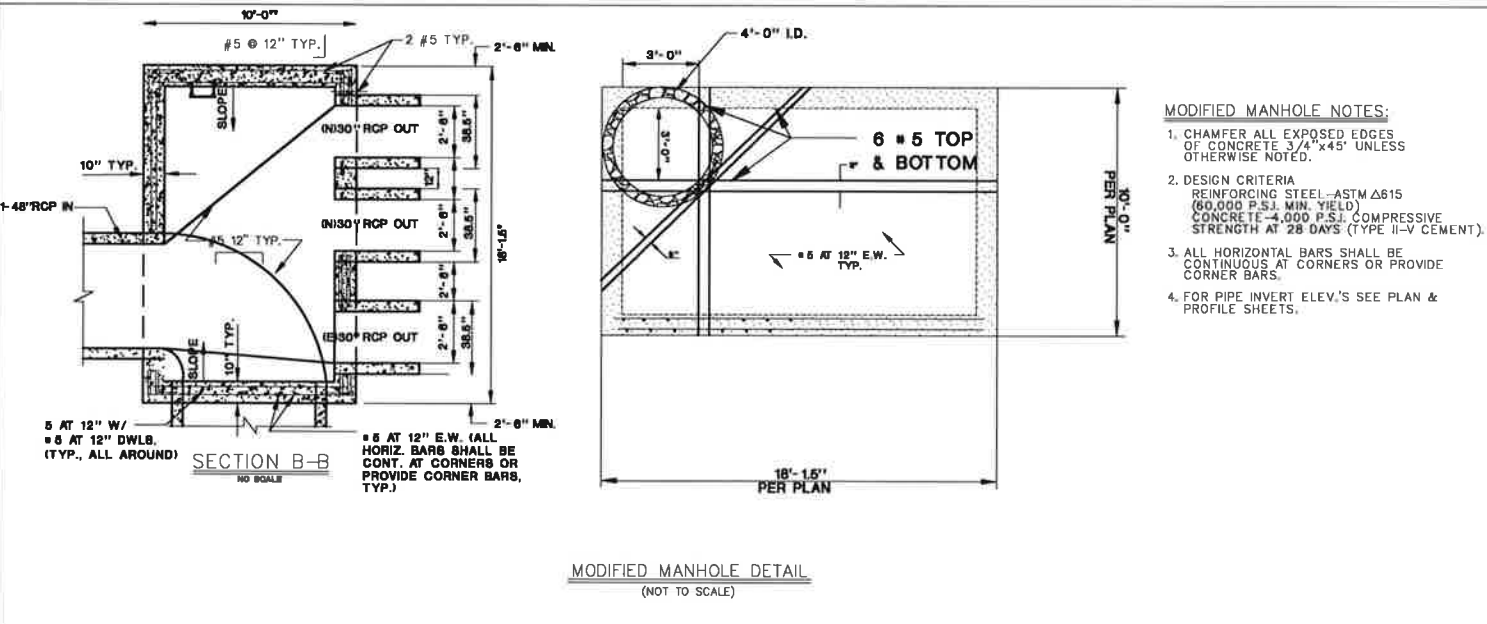
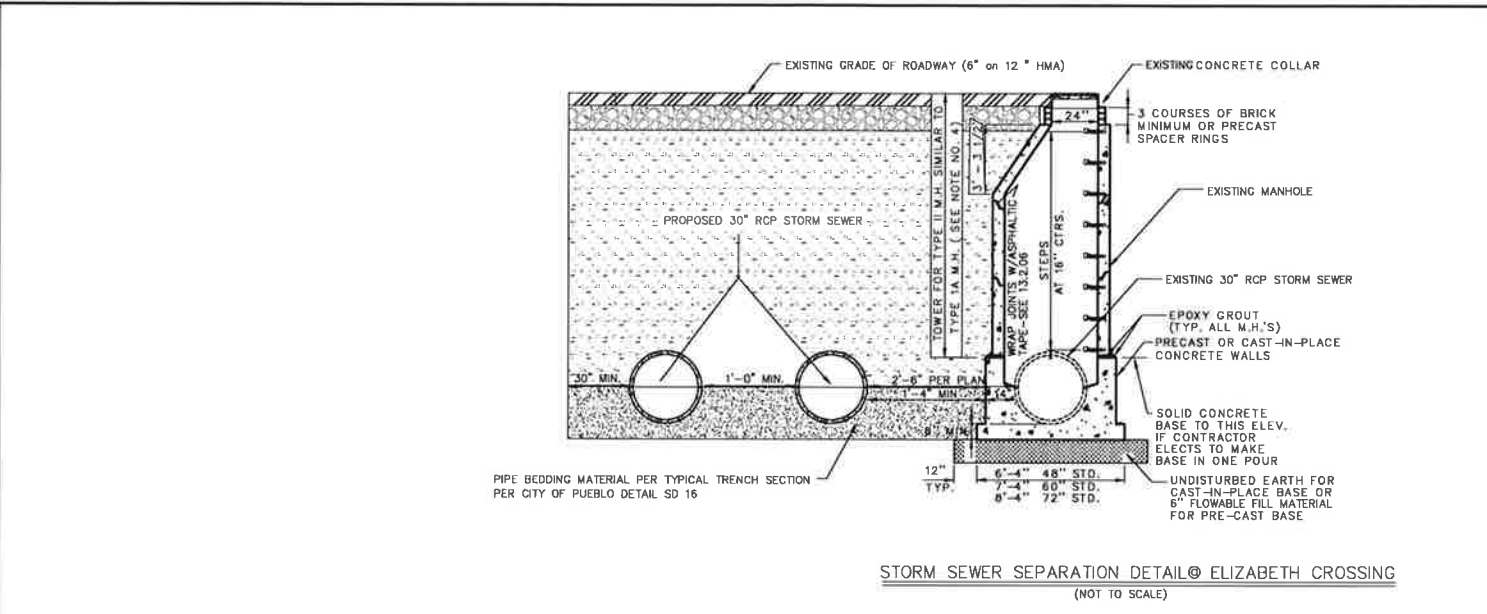
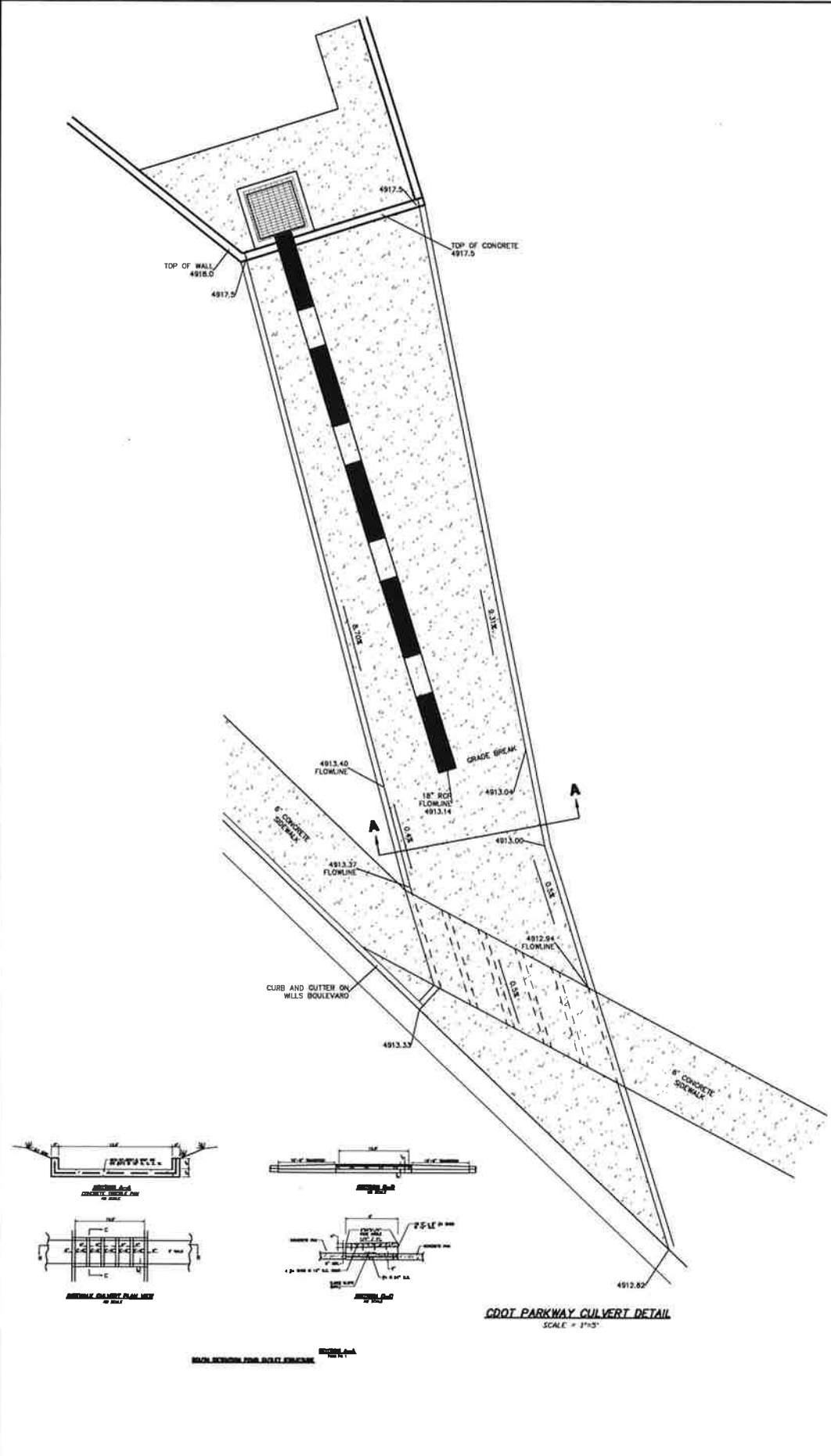
DATE: 11-3-16
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 DRAWN BY: SMC

CHECKED BY: KK
 FILE: 593-9.DWG

JOB NO. 1502801
593
 SHEET 9 OF 11

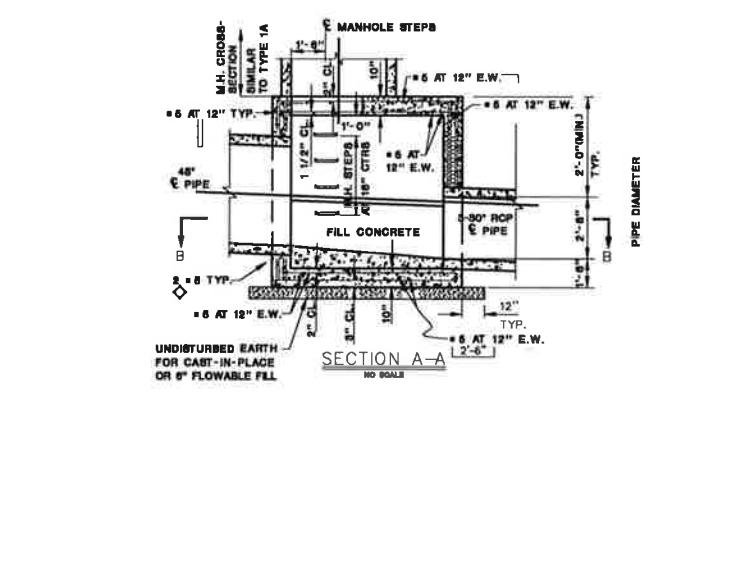


<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REVISED BY</th> <th>REVISION</th> <th>DATE</th> <th>MARK</th> <th>REVIEWED BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>△</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>△</td> <td></td> <td></td> </tr> </tbody> </table>	REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE				△						△			<p>NOTE: THE DESIGN OF THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE "TITLE SHEET".</p> <p>PAVEMENT DESIGN AS PER CITY ENGINEERS OFFICE: N/A</p> <p>CURB AND CLITTER EXCEPT AS NOTED: N/A</p> <p>SIDEWALK: S/A</p> <p>SEE TITLE SHEET AND WATER BOARD SHEET FOR GENERAL NOTES.</p> <p>SEE "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO, COLORADO SHEET SOB DETAILS SOB.1, SOB.2 & SOB.3 FOR HANDICAP RAMP DETAILS.</p> <p>ALL NEW CONSTRUCTION TO CONFORM TO "STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS" FOR CITY OF PUEBLO, COLORADO (MARCH 28, 2000).</p> <p>ALL ASPHALT REMOVED IS TO BE REPLACED TO MEET CITY OF PUEBLO STANDARD SPECIFICATIONS.</p> <p>THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.</p> <p>BENCHMARK: EAST 1/4 QUARTERS SUBDIVISION, National Geodetic Survey Point No. U 348, P.O. BOX 8, WOODS, NAVD 88 Elevation = 4816.92</p> <p>BENCHMARK: EAGLEWOOD ESTATES, PLUM NO. 2 (E.R.), "U" CHISEL ON THE TOP OF CURB HEAD ON THE SOUTHWEST CORNER OF THE SOUTHWEST CORNER OF THE INTERSECTION OF EAGLEWOOD BOULEVARD AND RIDGE DRIVE, (ELEVATION: 4812.84 (CITY OF PUEBLO DATA))</p>
REVISED BY	REVISION	DATE	MARK	REVIEWED BY	DATE														
			△																
			△																
<p>REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS</p> <p>BY: _____ DATE: _____</p> <p>GENERAL: _____ DATE: _____</p> <p>SANITARY SEWER: _____ DATE: _____</p> <p>TRANSFORMATION: _____ DATE: _____</p> <p>DRAINAGE: _____ DATE: _____</p>	<p>REVIEWED FOR GENERAL COMPLIANCE WITH BOARD OF WATER WORKS STANDARDS</p> <p>BY: _____ DATE: _____</p>																		
<p>CDOT HEADQUARTERS SUBDIVISION</p>	<p>OUTLOOK BOULEVARD STORM SEWER OUTFALL (STA. 9+18.85 TO STA 19+89)</p>																		
<p>PROJECT NAME</p>	<p>SHEET TITLE</p>																		
<p>NORTHSTAR ENGINEERING AND SURVEYING, INC. 111 E. 4TH ST., PUEBLO, CO. 81003 TEL: 719.244.1111 FAX: 719.244.1112</p>	<p>PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.</p>																		
<p>HOR. SCALE: 1"=40'</p> <p>VERT. SCALE: 1"=4'</p> <p>DATE: 11-3-16</p> <p>DESIGN BY: SMC</p> <p>DRAWN BY: SMC</p> <p>CHECKED BY: KK</p> <p>FILE: 593-9.DWG</p> <p>JOB NO. 1502801</p> <p>593</p> <p>SHEET 9 OF 11</p>																			



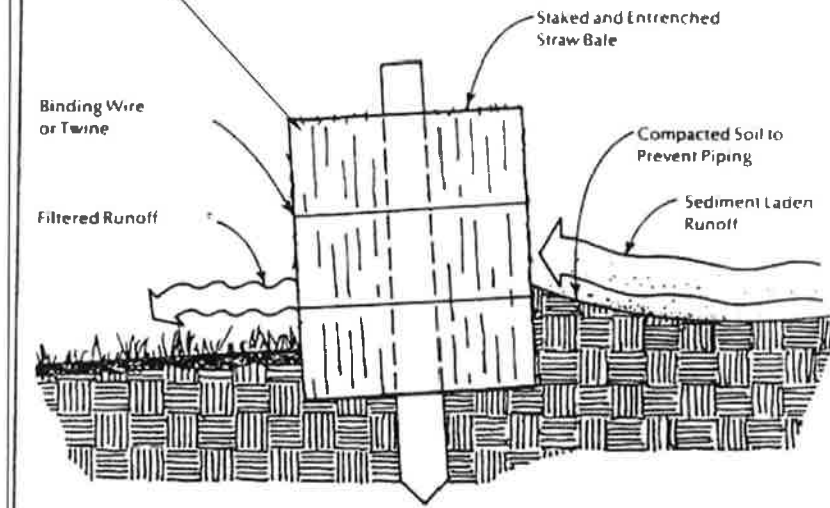
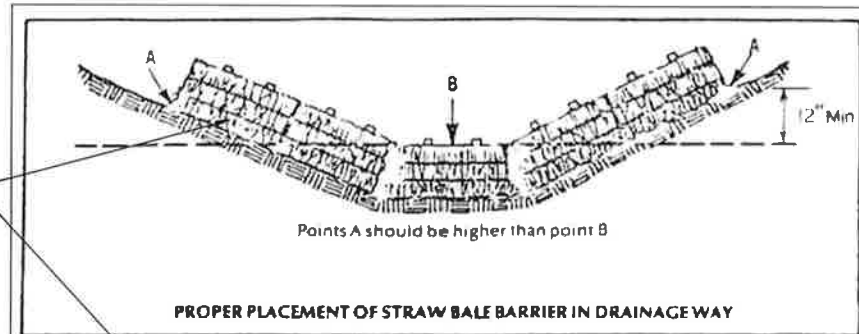
GRADING AND EROSION CONTROL NOTES

1. THIS GRADING PLAN IS ONLY ONE DOCUMENT OF MULTIPLE DESIGN DOCUMENTS FOR THIS PROJECT. THE GRADING PLAN HAS NOT BEEN DESIGNED AS A "STAND ALONE" PLAN BUT RATHER RELIES ON INFORMATION CONTAINED IN OTHER PLANS FOR A COMPLETE DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE REQUIREMENTS OF ALL PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND NOTIFYING THE ENGINEER OF ANY DISCREPANCIES. FAILURE OF THE CONTRACTOR TO REPORT DISCREPANCIES TO THE ENGINEER IN A TIMELY MANNER OR CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF ALL DESIGN DOCUMENTS SHALL BE SOLELY AT THE CONTRACTOR'S RISK AND EXPENSE.
2. THE GEOTECHNICAL REPORT FOR THIS PROJECT SHALL BE INCORPORATED.
3. HEREIN AS IF REPRODUCED IN FULL, CONFLICTS BETWEEN THE GEOTECHNICAL REPORT AND OTHER PROJECT PLANS AND DOCUMENTS SHALL BE RESOLVED AS IN NOTE 1 ABOVE.
4. PROPOSED CONTOURS SHOWN ON THIS PLAN REPRESENT FINISHED GRADES AND ARE FOR CONCEPTUAL PURPOSES ONLY. INFORMATION DEPICTED BY SPOT ELEVATION, DETAIL, TYPICAL SECTION AND PROFILE SHALL GOVERN.
5. OVERLOT FLOW ARROWS ON THIS SHEET REPRESENT OVERLOT GRADING TO BE EMPLOYED AT TIME OF LOT CONSTRUCTION.
6. AVOID DISTURBANCE OF AREAS NOT TO BE GRADED.
7. FILLS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT. WHERE CONFLICTS OCCUR THE MOST STRINGENT REQUIREMENT SHALL APPLY, UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.
8. OVERLOT AREAS IN CUT SECTIONS SHALL BE OVERCUT BY 3" UPON COMPLETION OF GRADING, PLACE AND CONSOLIDATE STRIPPINGS TO BRING BACK TO FINISHED GRADE. CRUST SURFACES UNTIL UTILITY INSTALLATIONS ARE COMPLETE.
9. OVERLOT AREAS IN FILL SECTIONS SHALL BE LEFT 3" LOW UPON COMPLETION OF GRADING, PLACE AND CONSOLIDATE STRIPPINGS TO BRING BACK TO FINISHED GRADE. CRUST SURFACES UNTIL UTILITY INSTALLATIONS ARE COMPLETE.
10. FINISH GRADE SHALL BE BROUGHT WITHIN A TOLERANCE OF 0.0' TO +0.1' OF PLAN GRADE.
11. GRADED SURFACES SHALL BE LEFT IN A SMOOTH, UNIFORM, CRUSTED CONDITION FREE OF RUTS, DEPRESSIONS, IRREGULARITIES, LOOSE UNCOMPACTED SOIL, ETC.
12. REVEGETATE ALL DISTURBED AREAS THAT ARE NOT TO BE DEVELOPED IMMEDIATELY. OBTAIN RECOMMENDATIONS FOR SEEDING, PLANTING TIMES, PLANTING TECHNIQUES, MULCHING, WATERING, ETC. FROM THE USDA SOIL CONSERVATION SERVICE.
13. LOCATION AND DEPTHS OF ANY EXISTING UTILITIES THAT MAY EXIST ON SITE ARE NOT SHOWN, OR ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY AND ALL UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THEIR FAILURE TO HAVE EXISTING UTILITIES LOCATED.

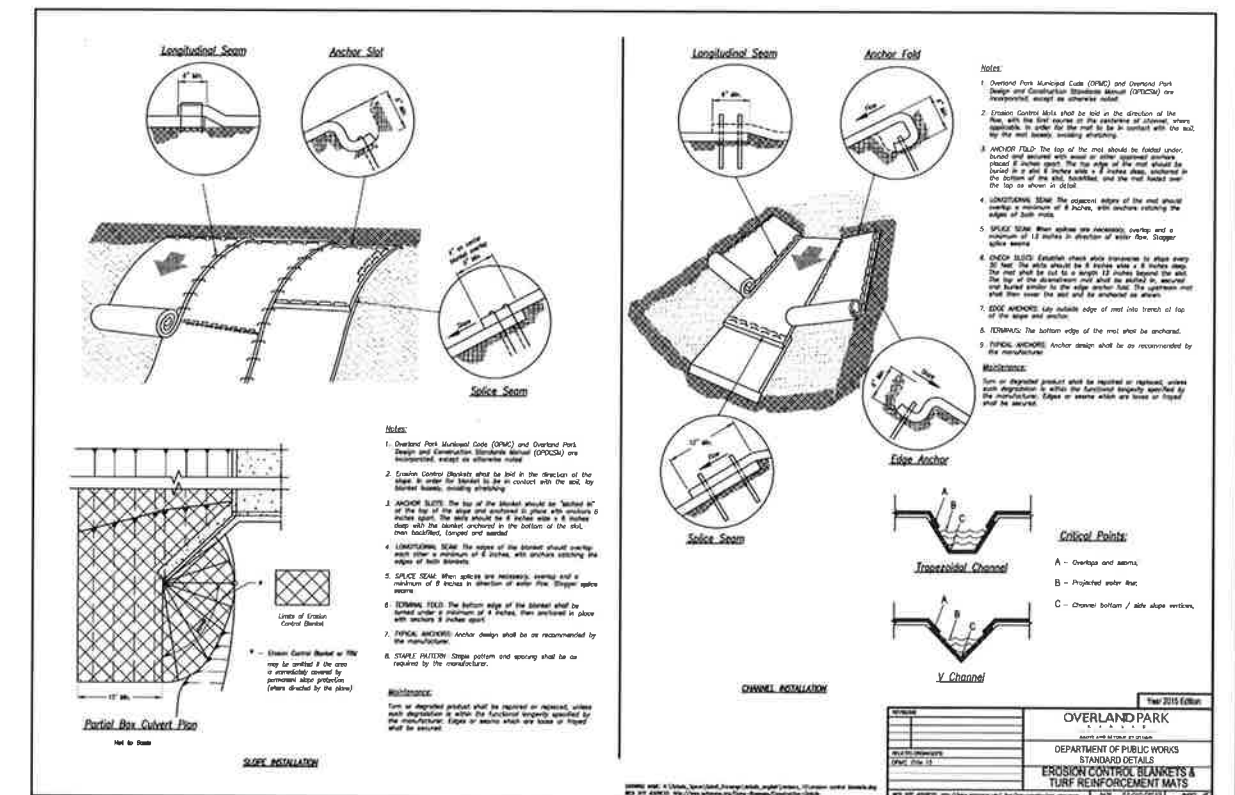


REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS	BY: _____ DATE: _____
REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS	GENERAL: _____ DATE: _____
	SANITARY SEWER: _____ DATE: _____
	TRANSPORTATION: _____ DATE: _____
	DRAINAGE: _____ DATE: _____
CDOT HEADQUARTERS SUBDIVISION	DETAILS
PROJECT NAME	SHEET TITLE
NORTHSTAR ENGINEERING AND SURVEYING, INC.	
PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.	
HOR. SCALE: 1"=40'	VERT. SCALE: 1"=4'
DATE: 1-23-17	DESIGN BY: SC
	DRAWN BY: SC
CHECKED BY: MLC	FILE: 593-10.DWG
JOB NO. 1502801	593
	SHEET 10 OF 11

CHECK DAM SPACING PER PLAN. AT CONTRACTOR OPTION FIBER ROLLS MAY BE SUBSTITUTED



CHECK DAM DETAIL



SLOPE PROTECTION DETAIL

SINGLE PIPE

DOUBLE PIPE

CONCRETE HEADWALL INSTALLATIONS

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

PIPE OUTLET PAVING (CUBIC YARDS)

GENERAL NOTES:

- FOR SIZE AND LOCATION OF PIPES, SEE THE PLAN.
- ALL CONCRETE SHALL BE CLASS B.
- FOOTINGS IN ROCK SHALL BE FORMED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SUBSECTION 601.01(A).
- EMBEDDED CONCRETE CONCRETS SHALL BE CHANGED TO 1/2 IN. DIA. REINFORCING STEEL.
- HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED TO A MINIMUM OF 1/2 IN. DIA. REINFORCING STEEL.
- THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLAN AND ARE NOT FOR ESTIMATE.

Computer File Information

Sheet Revisions

Colorado Department of Transportation

HEADWALLS AND PIPE OUTLET PAVING

STANDARD PLAN NO. M-601-12

Sheet No. 1 of 1

HEADWALL FOR RIGID ROUND PIPE

HEADWALL FOR FLEXIBLE PIPE ARCH

HEADWALL FOR FLEXIBLE ROUND PIPE

HEADWALL FOR STRUCTURAL PLATE ARCH

TYPICAL BAR LAYOUT FOR CONCRETE HEADWALLS

SKREW FACTOR TABLE

GENERAL NOTES:

- REINFORCE SHALL BE CLASS B.
- HEADWALL SHALL BE PERPENDICULAR TO THE PIPE UNLESS OTHERWISE SHOWN BY THE PLAN. HEADWALLS BENDING AND QUANTITIES MUST BE ADJUSTED FOR SLOPED INSTALLATIONS.
- FOR FINISH DETAILS, SEE STANDARD PLAN M-601-10.
- CONCRETE QUANTITIES LISTED IN THIS PLAN HAVE BEEN DERIVED FROM STEEL AND CONCRETE QUANTITIES.
- EMBEDDED CONCRETE CONCRETS SHALL BE CHANGED TO 1/2 IN. DIA. REINFORCING STEEL.
- ALL REINFORCING STEEL SHALL HAVE A 2 IN. MINIMUM CLEARANCE.
- WITH TWO OR MORE PIPES, EACH SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE 1/2 IN. DIA. REINFORCING STEEL FROM EACH OTHER OR 1/2 IN. DIA. REINFORCING STEEL FROM EACH OTHER, WHICHEVER IS LESS.
- ALL REINFORCING STEEL SHALL BE SPACED AS SHOWN.

Computer File Information

Sheet Revisions

Colorado Department of Transportation

HEADWALL FOR PIPES

STANDARD PLAN NO. M-601-10

Sheet No. 1 of 1

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS FOR WATER WORKS STANDARDS

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS

PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION

SHEET TITLE: EFFLUENT DRAINAGE DETAILS

PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 18739

DESIGN BY: MLC

DRAWN BY: SC

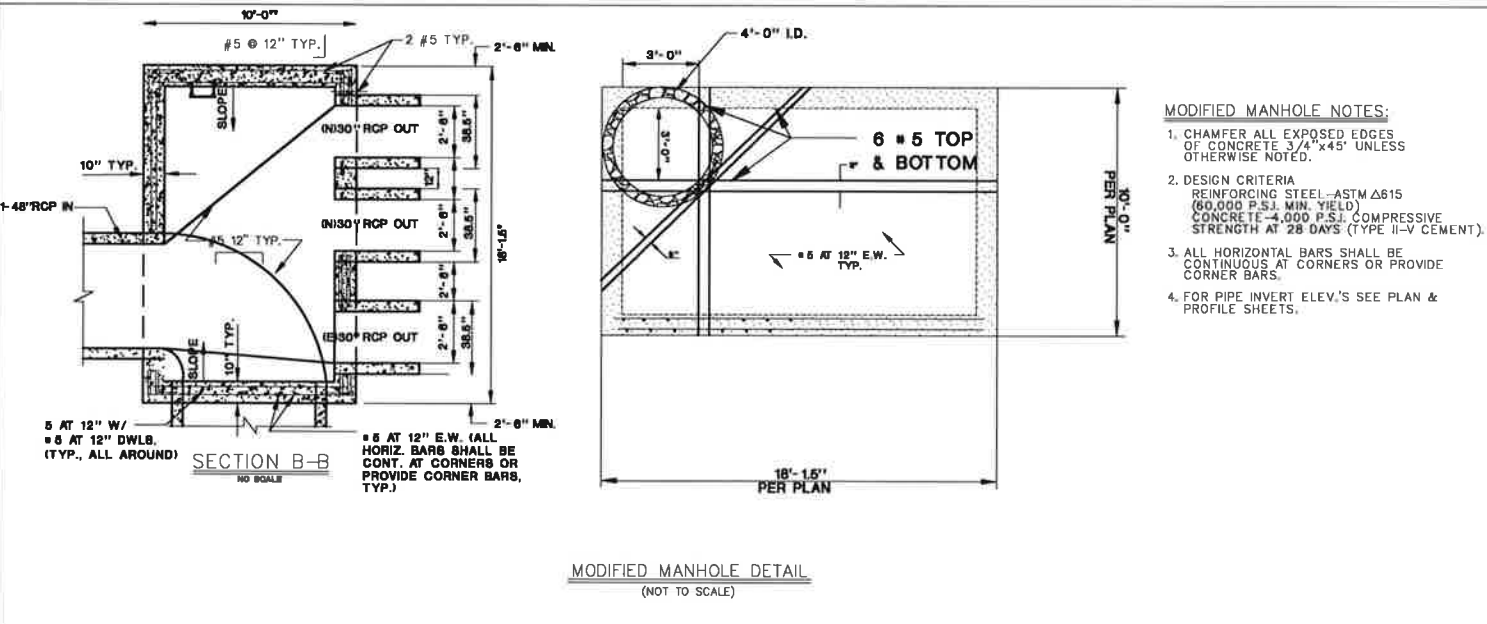
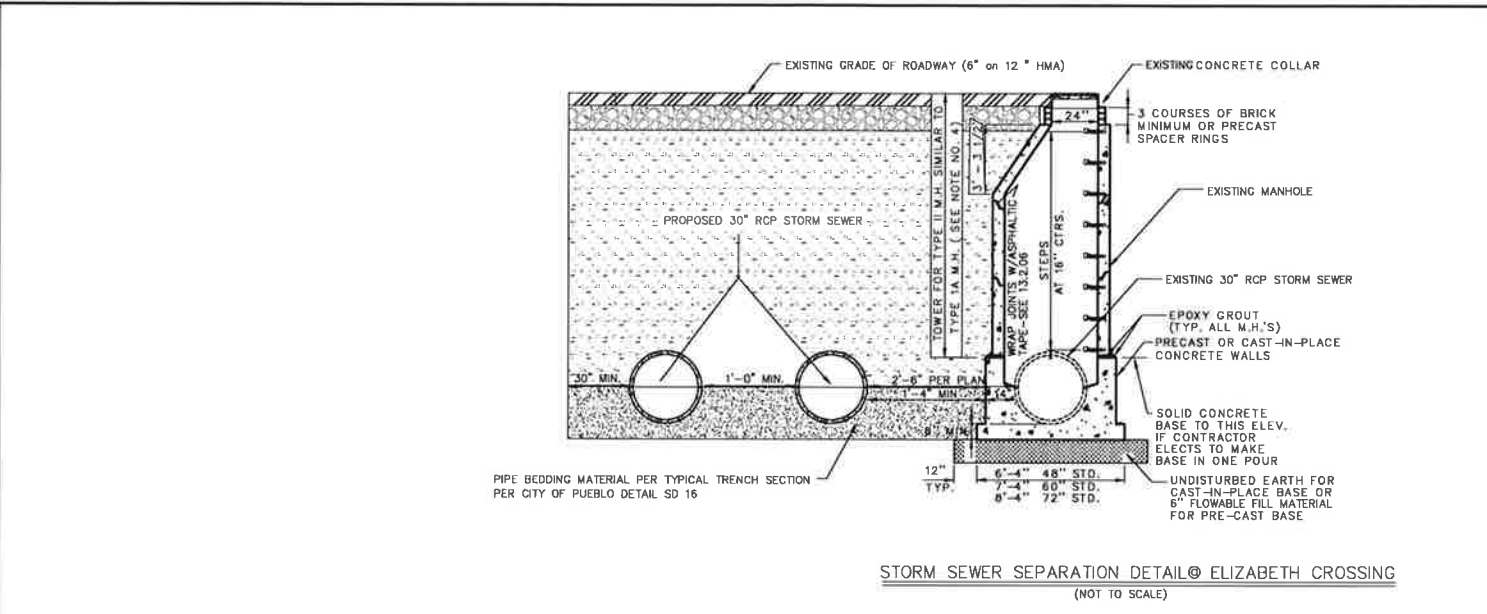
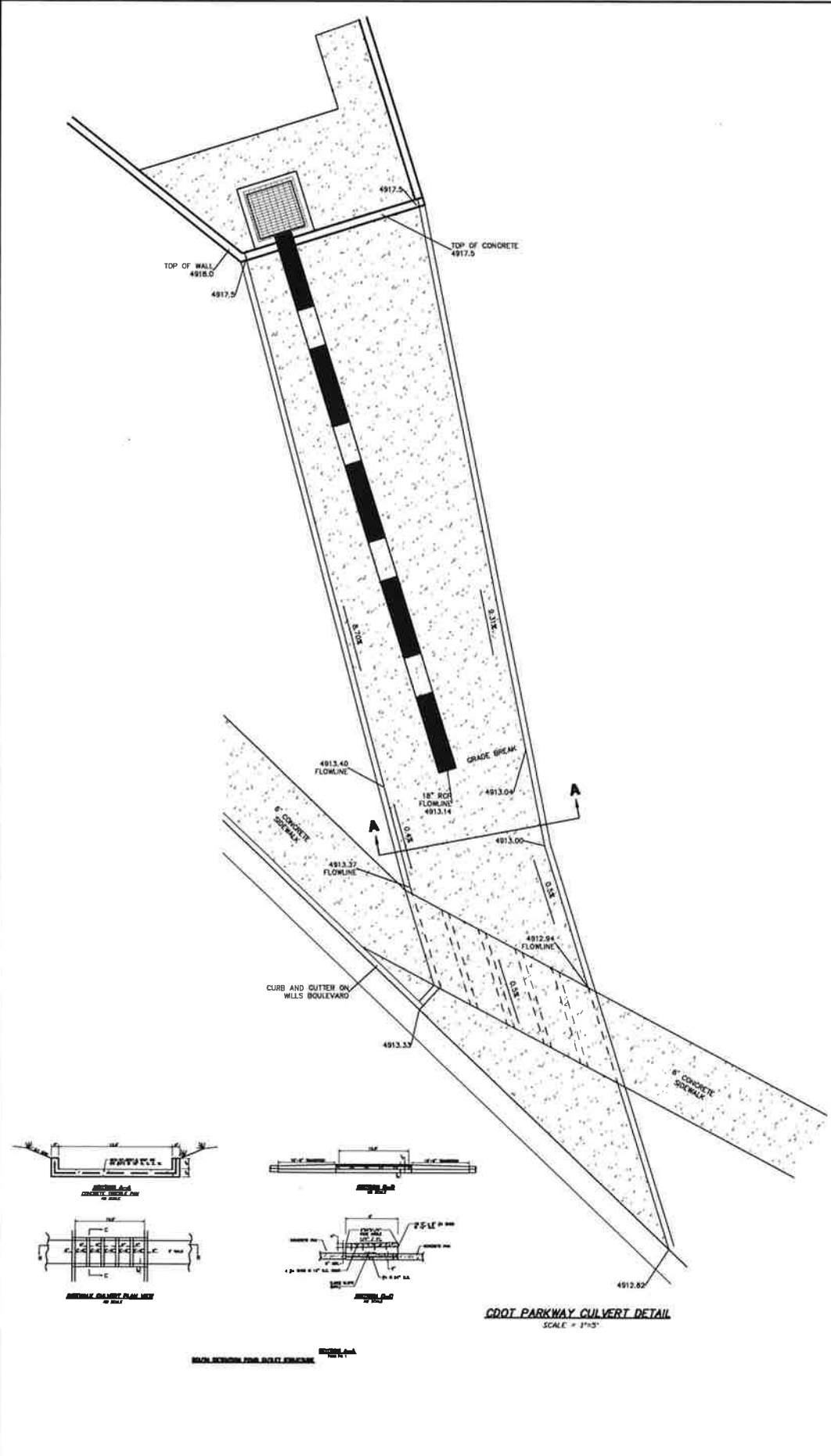
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JOB NO. 1502801

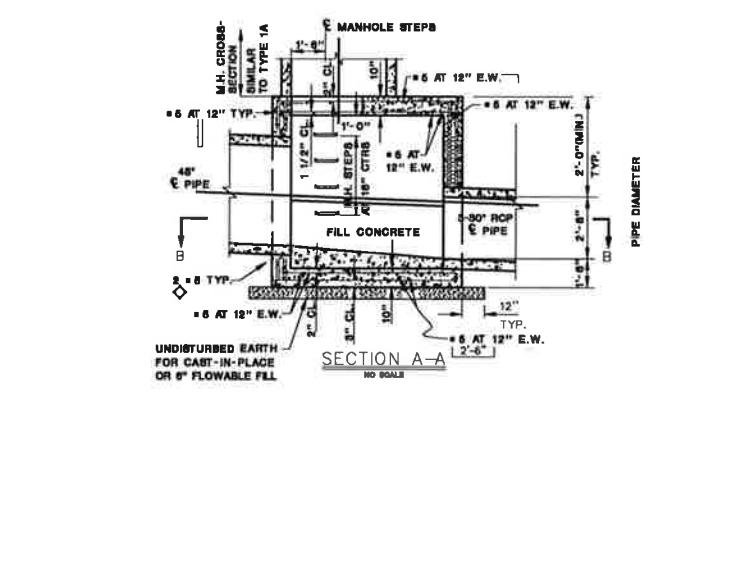
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SHEET 11 OF 11



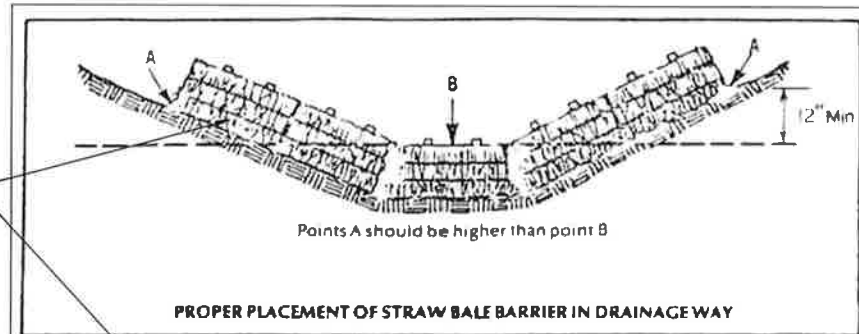
GRADING AND EROSION CONTROL NOTES

- THIS GRADING PLAN IS ONLY ONE DOCUMENT OF MULTIPLE DESIGN DOCUMENTS FOR THIS PROJECT. THE GRADING PLAN HAS NOT BEEN DESIGNED AS A "STAND ALONE" PLAN BUT RATHER RELIES ON INFORMATION CONTAINED IN OTHER PLANS FOR A COMPLETE DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE REQUIREMENTS OF ALL PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND NOTIFYING THE ENGINEER OF ANY DISCREPANCIES. FAILURE OF THE CONTRACTOR TO REPORT DISCREPANCIES TO THE ENGINEER IN A TIMELY MANNER OR CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF ALL DESIGN DOCUMENTS SHALL BE SOLELY AT THE CONTRACTOR'S RISK AND EXPENSE.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT SHALL BE INCORPORATED.
- HEREIN AS IF REPRODUCED IN FULL, CONFLICTS BETWEEN THE GEOTECHNICAL REPORT AND OTHER PROJECT PLANS AND DOCUMENTS SHALL BE RESOLVED AS IN NOTE 1 ABOVE.
- PROPOSED CONTOURS SHOWN ON THIS PLAN REPRESENT FINISHED GRADES AND ARE FOR CONCEPTUAL PURPOSES ONLY. INFORMATION DEPICTED BY SPOT ELEVATION, DETAIL, TYPICAL SECTION AND PROFILE SHALL GOVERN.
- OVERLOT FLOW ARROWS ON THIS SHEET REPRESENT OVERLOT GRADING TO BE EMPLOYED AT TIME OF LOT CONSTRUCTION.
- AVOID DISTURBANCE OF AREAS NOT TO BE GRADED.
- FILLS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE GEOTECHNICAL REPORT. WHERE CONFLICTS OCCUR THE MOST STRINGENT REQUIREMENT SHALL APPLY, UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.
- OVERLOT AREAS IN CUT SECTIONS SHALL BE OVERCUT BY 3" UPON COMPLETION OF GRADING, PLACE AND CONSOLIDATE STRIPPINGS TO BRING BACK TO FINISHED GRADE. CRUST SURFACES UNTIL UTILITY INSTALLATIONS ARE COMPLETE.
- OVERLOT AREAS IN FILL SECTIONS SHALL BE LEFT 3" LOW UPON COMPLETION OF GRADING, PLACE AND CONSOLIDATE STRIPPINGS TO BRING BACK TO FINISHED GRADE. CRUST SURFACES UNTIL UTILITY INSTALLATIONS ARE COMPLETE.
- FINISH GRADE SHALL BE BROUGHT WITHIN A TOLERANCE OF 0.0' TO +0.1' OF PLAN GRADE.
- GRADED SURFACES SHALL BE LEFT IN A SMOOTH, UNIFORM, CRUSTED CONDITION FREE OF RUTS, DEPRESSIONS, IRREGULARITIES, LOOSE UNCOMPACTED SOIL, ETC.
- REVEGETATE ALL DISTURBED AREAS THAT ARE NOT TO BE DEVELOPED IMMEDIATELY. OBTAIN RECOMMENDATIONS FOR SEEDING, PLANTING TIMES, PLANTING TECHNIQUES, MULCHING, WATERING, ETC., FROM THE USDA SOIL CONSERVATION SERVICE.
- LOCATION AND DEPTHS OF ANY EXISTING UTILITIES THAT MAY EXIST ON SITE ARE NOT SHOWN, OR ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY AND ALL UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THEIR FAILURE TO HAVE EXISTING UTILITIES LOCATED.

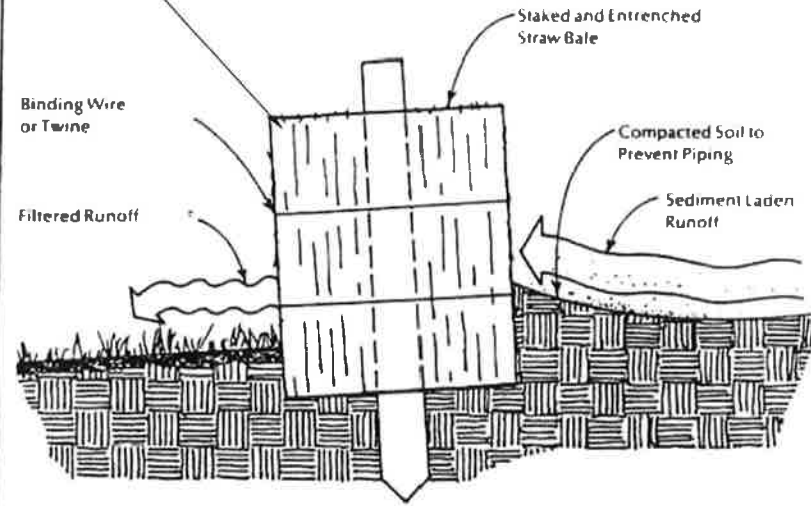


REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS		BY: _____	DATE: _____
REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS		GENERAL: _____	DATE: _____
		SANITARY SEWER: _____	DATE: _____
		DRAINAGE: _____	DATE: _____
		TRANSPORTATION: _____	DATE: _____
CDOT HEADQUARTERS SUBDIVISION		DETAILS	
PROJECT NAME	SHEET TITLE		
PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.			
HOR. SCALE: 1"=40'	VERT. SCALE: 1"=4'		
DATE: 1-23-17	DESIGN BY: SC		
	DRAWN BY: SC		
CHECKED BY: MLC	FILE: 593-10.DWG		
JOB NO. 1502801	593		
	SHEET 10 OF 11		

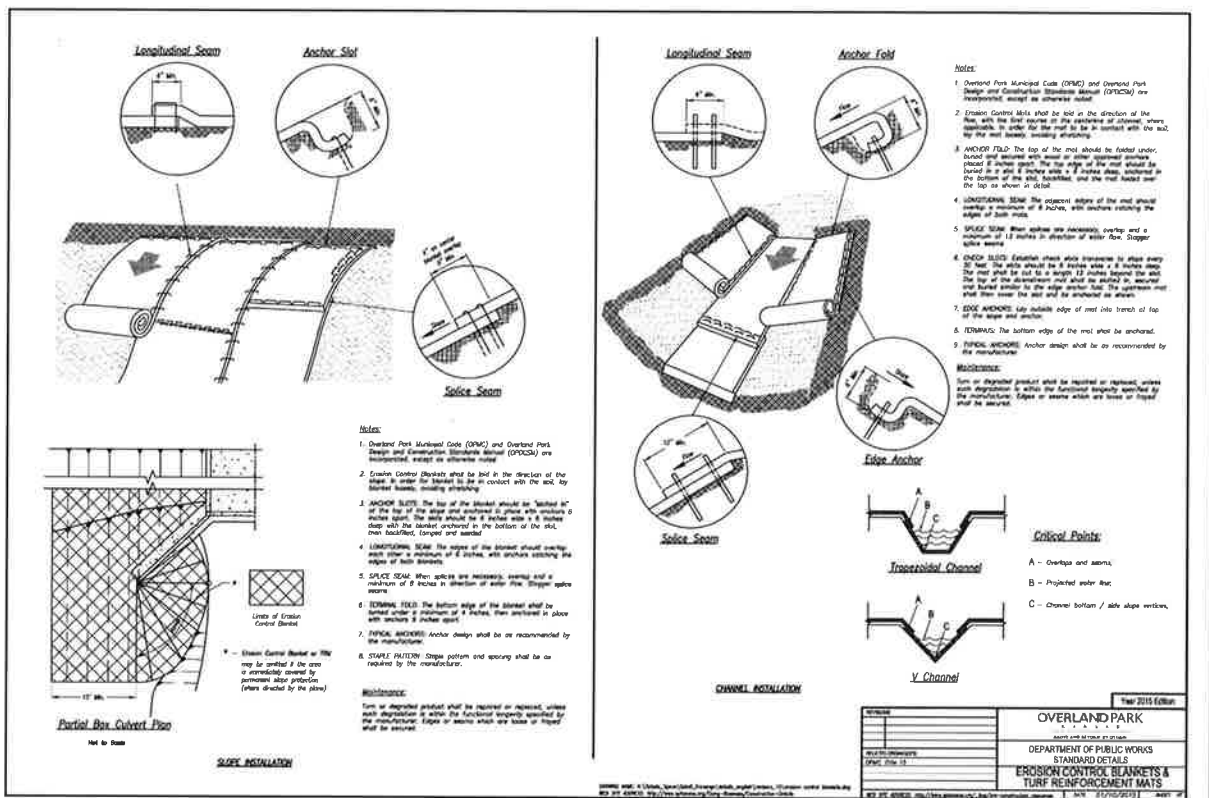
CHECK DAM SPACING PER PLAN. AT CONTRACTOR OPTION FIBER ROLLS MAY BE SUBSTITUTED



PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



CHECK DAM DETAIL



SLOPE PROTECTION DETAIL

CONCRETE HEADWALL INSTALLATIONS

SEE STANDARD PLAN M-601-10 FOR REINFORCING DETAILS

SINGLE PIPE

DOUBLE PIPE

PIPE	PIPE DIAMETER (OR EQUIVALENT DIAMETER) (IN)									
	18	24	30	36	42	48	54	60	66	72
TYPE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
MATERIAL	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE
THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"
CONCRETE	0.8	1.5	2.0	2.7	3.4	4.1	4.8	5.5	6.2	6.9
REINFORCING	0.8	1.5	2.0	2.7	3.4	4.1	4.8	5.5	6.2	6.9
STEEL	0.8	1.5	2.0	2.7	3.4	4.1	4.8	5.5	6.2	6.9

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

THICKNESS	MATERIAL	18"	24"	30"	36"	42"	48"
8"	CONCRETE	0.4	0.8	1.2	1.6	2.0	2.4
8"	REINFORCING	0.1	0.2	0.3	0.4	0.5	0.6

PIPE OUTLET PAVING (CUBIC YARDS)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED

CIRCULAR

ARCH OR ELLIPTICAL

GENERAL NOTES:

- FOR SIZE AND LOCATION OF PIPES, SEE THE PLAN.
- ALL CONCRETE SHALL BE CLASS B.
- FOOTINGS IN ROCK SHALL BE FORMED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SUBSECTION 601.01(A).
- EMBEDDED CONCRETE CONCRETS SHALL BE CHANGED TO 3%.
- HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED BY A REINFORCING CONTRACTOR IN ACCORDANCE WITH STANDARD PLAN M-601-10.
- THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE QUANTITIES ARE LISTED IN THE PLAN AND ARE FOR PIPE HEADWALLS.

PIPE OUTLET PAVING MAY BE USED WITH MULTIPLE PIPES

Computer File Information: Overland Park 07/24/12, Date: 07/24/12, Sheet: 1 of 1, Project: 593-10.0WG

Sheet Revisions: 1. Date: 07/24/12, Comments: Initial LTA

Colorado Department of Transportation: 4201 East Arapahoe Avenue, Denver, Colorado 80222, Phone: (303) 757-9000, Fax: (303) 757-9820

Project Development Branch DD/LTA

HEADWALLS AND PIPE OUTLET PAVING

STANDARD PLAN NO. M-601-12

Sheet No. 1 of 1

HEADWALL FOR RIGID ROUND PIPE

HEADWALL FOR FLEXIBLE PIPE ARCH

HEADWALL FOR FLEXIBLE ROUND PIPE

HEADWALL FOR STRUCTURAL PLATE ARCH

GENERAL NOTES:

- REINFORCING SHALL BE CLASS B.
- HEADWALL SHALL BE PERPENDICULAR TO THE PIPE UNLESS OTHERWISE SHOWN BY THE PLAN. TOLERANCES FOR BENDING AND QUANTITIES WILL BE AS NOTED FOR SIMILAR INSTALLATIONS.
- FOR REINFORCING DETAILS, SEE STANDARD PLAN M-601-10.
- CONCRETE QUANTITIES LISTED BY THIS PLAN HAVE BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
- EMBEDDED CONCRETE CONCRETS SHALL BE CHANGED TO 3%.
- ALL REINFORCING SHALL HAVE A 2" MINIMUM CLEARANCE.
- WITH TWO OR MORE PIPES, EACH SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE 1/2" INSEPARABLE FROM EACH OTHER. PIPES SHALL BE 1/2" INSEPARABLE FROM EACH OTHER. 1/2" INSEPARABLE FROM EACH OTHER.
- ALL REINFORCING SHALL BE 1/2" INSEPARABLE FROM EACH OTHER.

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HEADWALL FOR PIPES

STANDARD PLAN NO. M-601-10

Sheet No. 1 of 1

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS FOR WATER WORKS STANDARDS

REVIEWED FOR GENERAL COMPLIANCE WITH CITY OF PUEBLO STANDARDS

PROJECT NAME: CDOT HEADQUARTERS SUBDIVISION

SHEET TITLE: EFFLUENT DRAINAGE DETAILS

DATE: 1-23-17

DESIGN BY: SC

DRAWN BY: SC

CHECKED BY: MLC

FILE: 593-10.0WG

JOB NO: 1502801

593

SHEET 11 OF 11

NORTHSTAR ENGINEERING AND SURVEYING, INC.

111 E. WYOMING, PUEBLO, CO. 81001
 719.586.8888
 FAX: 719.586.8889

PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 187398