



Add PCD File No. PPR-21-054

Jun 10, 2021

Prepared for: Maverik, Inc. 185 South State Street Salt Lake City, Utah 84111

Prepared by:

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ENGINEER'S STATEMENT

This report for the final design of Maverik Store CO-0258 was prepared by me or under my direct supervision in accordance with the provisions of the Urban Storm Drainage Criteria Manual and Environmental Criteria Manual. I understand that Alamosa City does not and will not assume liability for drainage facilities designed by others.

Scott Duffin P.E. # 48018 State of Colorado

Date _____

Include EPC Engineer's Statement, Developer's Statement & El Paso County Approval Statement/Signature Block.

see link below: https://planningdevelopment.elpasoco.com/ planning-community-development/engineer ing/#1519834362627-c268a2b9-61ec

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Show the "Four-Step Process" for selecting structural BMPs (ECM Section I.7.2 BMP Selection)

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All figures are presented in the appendices

Appendix A

Vicinity Map Flood Insurance Rate Map Rainfall Depth-Duration-Frequency-2 and 100-Year, 1-Hour Rainfall

Appendix B

Standard SF-3 Form Weighted C Coefficient Rational Method Calculations ADS SC-740 Stormtech Chamber

GENERAL LOCATION AND DESCRIPTION

This report presents the Maverik Convenience preliminary drainage study and drainage system design. The design and analysis of this site has been performed in accordance with the Drainage Criteria Manual County of El Paso, Colorado, Volume 1, October 2018. Drawings, tables, and design calculations are included in the appendix of this report.

Site Location

Drainage Criteria Manual, as revised The site is on located at the southwest corner of 1-25 a November 1991 & October 1994 with County Paso County, CO (APN: 71022-00-001). adopted Chapter 6 & Section 3.2.1 of Chapter

There are no adjacent developments at the time of this re 13 of the City of Colorado Springs Drainage Criteria Manual as revised in May 2014 &

Site Description

The site is approximately 4.98 acres in size. The topogr, Criteria Manual revised November 2019. slopes ranging from 2% to 15%. The soils within the site are mostly clayey sand in nature (GeoStrata, No. 1092-06). There is a moderate amount of brush, trees, and grasses on the site.

Proposed Project Description

Include hydrologic soil group.

The project consists of a 5,951 sf convenience store, parking, patio, and (2) fuel canopies. The area will also include miscellaneous fuel systems, underground tanks, pumps and facilities typical to the operation of an automotive fuel center.

DRAINAGE BASINS AND SUB-BASINS

Major Basin Description

The site is located within El Paso, County adjacent to I-2 established previously by the existing center will be maintain

What existing center? Need existing drainage calculations & map. Reference any previous reports if used. Discuss offsite drainage.

City of Colorado Springs/El Paso County

Chapter 3 of the El Paso County Engineering

basins, which drain into two separate designed underground detention systems.

The site is located outside the 100-year floodplain as indicated on the Flood Insurance Rate Map Community-Panel Number 08041C0065G, dated April 7 2018 for El Paso County, Colorado (Appendix A).

Site Sub-Basin Description

There are two major basins on site and it will be storm sewer systems. The north major basin will basin will be sub-basin F (Appendix B).

(Bald Mountain PLPL0200)

detain

DRAINAGE DESIGN CRITERIA

Hydrology Criteria

Drainage Criteria Manual Volume 1 of El Paso County, Colorado was used for the storm drainage system design.

The following criteria were utilized in developing the proposed drainage system.

The proposed drainage system is designed to retain stormwater on site.

the effective date is December 7, 2018. please revise

Include statement about what major drainage basin site is located in.

s in order to size the and the south major

							detention							
		from one												
		• R se	unoff gener wer system	ated from dr	ainage s to outfa	sub-basins is conveyed Il locations into the prop	either directly or osed retention facilit	via storm ty.						
		Design R year freq	ainfall: El F uency storm	Paso County r	rai <mark>see li</mark> ne (https	see link for runoff coefficients table 6-6 (https://library.municode.com/co/el_paso_county/codes/drainag								
		Runoff Ca	alculation:	Peak storm	ru <mark>e_cri</mark> t	teria_manual?nodeId=	VO1UP_CH6HY_	3.0RAME)						
	refer rainfa	to table 6- Ill depths	2 for	Q = CIA: Q = storm ru C = runoff control I = rainfall in $A = drainage$	unoff in C oefficient itensity ir e basin a	CFS; t based on surface imper n inches per hour; and area in acres	Update ref Tables from meabili DCM.	erences to m EPC						
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ŀ	Also, una	derground	storm wat	er quality ⁱⁿ	ed using	the criteria in Sections	5.2.3 of the Drainag	je Criteria						
i	s not all	owed per	criteria (EC	CM App.			`							
	.7.3) wit	hout a de	viation requ	uest. Bernine	ed using	NOAA Poin Refer to	CSDCM Vol 1 cha	apter 6 for time						
r	equest	does not i	mply that it	will be	4h in	of conce	ntration calculation	n criteria						
a	approved	d.drainage	system is d	esigned for a	100-yea	r recurrence interval								
				Ŭ	ſ		r Table 6-1 for loca	al street, max dep	th					
		Hydrau												
		I he follo	wing criteria	were utilized	in deterr	mining allowable street fl	ow.							
		M	ajor Storm ((100-yr)		K								
IVIII (5-	or storr	m criteria	Local	Street – Maxi	mum 18·	-inch flow depth at the g	utter line.							
(0	year):	Allowable	acities we	ere determine	ed using	Section 6.2 of the d	esign manual for	Maximum						
		Allowable	e Guller Cap			Show location of LIG de	tention facilities on	Drainage Man and	on					
		DRAIN	AGE FAC	CILITY DE	SIGN	GEC Plans. A deviation	request will also ne	ed to be submitted	l for					
		General	Concept	V		EPC review, since UG above ground full-spect	detention is not an a rum detention pond	pproved alternative (s).	e to					
		All runoff	from the s	site will be co	onveyed	to designed undergrou	nd detention facilitie	es on the						
		a rate tha	a south side at will not ex	ceed historica	unoff will al flows.	I then be released into a	drainage ditch to ti	ne east at						
Specific Details						address water quality. Include Variance wr refer to ECM appendix I for underground								
		The prop D, Basin existing a	osed develo E, and Bas and propose	opment has b in F. Drainage d drainage fa	ee <mark>n divic</mark> e maps, cilities, c	ded into six basins: Basi presenting the drainage an be found in Appendix	n A, B <mark>. detention.</mark> basin delineations a B.	as well as						
		The follo calculatio of this rep	owing text ons for each port.	generally de sub-basin ar	escribes e preser pleas	basin conveyance to nted in the rational metho e provide	design points. H od SF-3 forms in Ap	lydrologic opendix B						
				\	existi	ng drainage man								

Maverik Inc. - Site Code CO-0258 El Paso County, CO

existing drainage map and description of the existing sub-basins

State project site is approximately 4.9 acres, but basins only add to 3.5 acres. Where is the additional 1.4 acres?

You discuss open space flow within each basin, but majority of basins are not open space. Please expand and clarify basin descriptions.

Basin A, 0.37 acres, is located at the northwest portion of the site. The open space flow is directed to a catch basin west of the parking stalls, noted as Design Point 4 and then flows north to the north underground detention facility.

Basin B, 0.60 acres, is located at the northeast portion of the site and east of the forecourt fuel island. The open space flow travels to a catch basin on the northeast side of the site, noted as Design Point 5 and then flows west to the north underground detention facility.

Basin C, is 0.28 acres, is a small area located directly south of the buildin Please discuss and flow is directed to an area drain that is southeast of the trash enclosure, note analyze the proposed which then flows north through a series of pipes and structures to the disturbance for the access from Beacon Lite

Basin D, is 0.51 acres, is located south of Basin C and covers the southwere Rd to this lot. Identify how The open space flow is directed towards a waterway on the west side of the this area is being. The waterway then takes the runoff north towards an area drain on the sout captured by your water forecourt fuel island, noted as Design Point 2 and then flows north through a quality facility or if an exclusion applies (refer to

Basin E is 0.46 acres, is located directly east of the building. The open space ECM appendix 1.7). to the waterway on the west side of the forecourt fuel island and will then continue north to an area drain, noted as Design Point 3. Flows will continue north and west towards the underground detention facility.

Basin F is 1.27 acres, is located on the most southern and southeastern portion of the site. Open space flow will travel east and northeast to a catch basin, noted as Design Point 6, and will then be directed to the southern underground detention facility.

Detention

show this release point and subsequent conveyance to CDOT ditch on Drainage Map below.

Discuss where existing ditch goes and releases at.

Runoff from the proposed site will be collected by an underground ADS stormtech chamber and then released into the drainage ditch in the CDOT right-of-way below historical flow rates. Based on calculations in this report, the historical flow rate for the 100-year storm is 6.53 cfs. Calculations for the north chamber show that it will require a storage of 10,305 cu. ft. and the south chamber will require a storage of 2,656 cu. ft. Once stormwater has entered the chambers, it will then be release into the drainage ditch on the east side as it has historically done. Specifications, calculations, and installation information for the stormtech chambers has been provided to show that is has been property sized for the site (see Appendix B).

Storm Sewer and Culverts

Need to include calculations for sizing detention facilities.

Please include stormtech informing the appendix

Storm sewer piping will be generally designed to accommodate the 10-year storm event. In all cases, pipe velocities at the outlet are kept below 12 fps to minimize the need for energy dissipation or reinforcement at bends. Pipe velocities greater than 3 fps during a 2-year event are desirable to keep the pipe free of debris. To determine required pipe sizes, pipe networks will be modeled using Manning's Equation based upon worst case flow.

Pipe	Slope	n	Diam	Q calc	V (Full Flow)
	(%)		(in)	(cfs)	(fps)
8" HDPE	0.74	0.01	8	1.35	3.87
12" HDPE	0.85	0.01	12	4.27	5.44
18" HDPE	0.75	0.01	18	6.69	11.83

There are no culverts proposed for the site.

ENVIRONMENTAL PROTECTION CRITERIA

General

Please clarify sentence.

There are no wetland areas on the site or are there any threatened or endangered species.

Sedimentation and Erosion Control Measures

During construction, silt fence, inlet and outlet protection and vehicle tracking pads will be utilized to prevent sediment entering the storm sewer system or sediment leaving the site. All other open space areas will be landscaped. The erosion control plan is part of the Final Construction Plans for Maverik. All erosion and sediment control methods shall be maintained and repaired by the owner during construction and shall be inspected after each heavy precipitation event.

CONCLUSION

PLease indicate whether or not the drainage due to this development will adversely affect the surrounding or downstream properties

detained

Compliance with Standards

The drainage system for Maverik Site Code CO-0258 was designed to meet the Drainage Criteria Manual Volume 1 of El Paso County. The site does not include any F.E.M.A. mapped floodplains. The existing Flood Insurance Rate Map (F.I.R.M) is presented in Appendix A and shows no portion of the site to be in a flood hazard area. No map revisions are required as part of this development.

Drainage Concept

The drainage system for Maverik Site Code CO-0258 was designed to allow stormwater to be safely conveyed away from the building and retained onsite. The drainage concepts proposed for this site are in accordance with those presented in this report.

Sediment and Erosion Control Concept

The construction BMP's proposed for this site follow the your deviation request for the underground Attention to proper installation and maintenance are control practices to function properly.

Include section for Drainage Fees. Can simply state that no fees will be due unless the site is platted.

Include section on maintenance of detention facilities.

Please refer to Drainage criteria manual Volume 1 Ch4 for final drainage report guidelines.

https://library.municode.com/co/el_paso_county/cod es/drainage_criteria_manual?nodeId=DRCRMAVO1 ELPACO_SIDRPOCRFI_CH4REGU_4.4FIDRREFD

 Outlet structure design •How does it meet the County's full spectrum detention criteria? •How does it meet the County's stormwater quality criteria? What base design standard from ECM appendix I.7 is the facility providing? •O&M manual that answers the following: -How is water quality component cleaned/maintained? -How is detention component cleaned/maintained -How are inspections performed. Is a confined space entry required? Are special tools required? -Frequency of inspections/maintenance •Compliance with the State (water rights,

release rates, any other state requirements)

1. Drainage Criteria Manual of El Paso County, Colorado, *Drainage Criteria Manual, Volumes 1 & 2,* October 2018.

Include all references used & update this reference based on previous comment.

- VICINITY MAP
- FLOOD INSURANCE RATE MAP
- NOAA RAINFALL DEPTH-DURATION-FREQUENCY-2 AND 100-YEAR, 1-HOUR RAINFALL

Include a NRCS soils map







National Flood Hazard Layer FIRMette



Legend



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Precipitation Frequency Data Server



NOAA Atlas 14, Volume 8, Version 2 Location name: Colorado, USA* Latitude: 39.1288°, Longitude: -104.8659° Elevation: 7344.01 ft** * source: ESRI Maps ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS	PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹													
Duration				Average	recurrence	interval (yea	ars)							
Duration	1	2	5	10	25	50	100	200	500	1000				
5-min	0.247	0.315	0.430	0.527	0.665	0.773	0.885	1.00	1.16	1.28				
	(0.202-0.299)	(0.258-0.383)	(0.351-0.523)	(0.428-0.643)	(0.521-0.835)	(0.591-0.981)	(0.653-1.14)	(0.707-1.32)	(0.785-1.56)	(0.844-1.74)				
10-min	0.361 (0.296-0.438)	0.461 (0.378-0.560)	0.629 (0.513-0.765)	0.772 (0.626-0.942)	0.973 (0.763-1.22)	1.13 (0.866-1.44)	1.30 (0.956-1.67)	1.47 (1.03-1.93)	1.69 (1.15-2.28)	1.87 (1.24-2.54)				
15-min	0.440	0.563	0.767	0.941	1.19	1.38	1.58	1.79	2.07	2.28				
	(0.361-0.535)	(0.461-0.683)	(0.626-0.934)	(0.764-1.15)	(0.930-1.49)	(1.06-1.75)	(1.17-2.04)	(1.26-2.35)	(1.40-2.78)	(1.51-3.10)				
30-min	0.576	0.737	1.01	1.24	1.56	1.81	2.07	2.34	2.70	2.98				
	(0.472-0.699)	(0.604-0.895)	(0.821-1.23)	(1.00-1.51)	(1.22-1.96)	(1.38-2.30)	(1.53-2.67)	(1.65-3.08)	(1.83-3.63)	(1.97-4.05)				
60-min	0.725	0.895	1.19	1.46	1.85	2.17	2.51	2.87	3.38	3.78				
	(0.594-0.880)	(0.733-1.09)	(0.973-1.45)	(1.18-1.78)	(1.46-2.34)	(1.66-2.77)	(1.86-3.26)	(2.04-3.80)	(2.30-4.56)	(2.50-5.14)				
2-hr	0.873	1.05	1.38	1.68	2.13	2.52	2.94	3.40	4.05	4.58				
	(0.721-1.05)	(0.868-1.27)	(1.13-1.66)	(1.37-2.03)	(1.70-2.70)	(1.96-3.21)	(2.20-3.81)	(2.43-4.49)	(2.78-5.45)	(3.05-6.18)				
3-hr	0.981	1.15	1.48	1.79	2.29	2.73	3.21	3.74	4.51	5.15				
	(0.813-1.18)	(0.953-1.38)	(1.22-1.77)	(1.47-2.16)	(1.84-2.90)	(2.13-3.47)	(2.41-4.15)	(2.69-4.93)	(3.12-6.07)	(3.44-6.92)				
6-hr	1.19	1.38	1.76	2.12	2.71	3.23	3.81	4.46	5.41	6.20				
	(0.995-1.42)	(1.15-1.64)	(1.46-2.09)	(1.75-2.53)	(2.20-3.42)	(2.54-4.09)	(2.89-4.90)	(3.24-5.85)	(3.76-7.23)	(4.16-8.27)				
12-hr	1.45	1.72	2.21	2.67	3.38	3.98	4.65	5.37	6.41	7.27				
	(1.22-1.71)	(1.44-2.02)	(1.84-2.60)	(2.21-3.16)	(2.74-4.19)	(3.14-4.97)	(3.53-5.90)	(3.91-6.96)	(4.48-8.49)	(4.92-9.64)				
24-hr	1.76	2.09	2.68	3.22	4.03	4.70	5.42	6.20	7.30	8.19				
	(1.48-2.05)	(1.76-2.44)	(2.26-3.14)	(2.69-3.78)	(3.28-4.93)	(3.73-5.79)	(4.14-6.81)	(4.54-7.95)	(5.13-9.57)	(5.58-10.8)				
2-day	2.09	2.45	3.08	3.65	4.51	5.22	5.99	6.81	7.97	8.91				
	(1.78-2.42)	(2.08-2.83)	(2.61-3.57)	(3.07-4.25)	(3.69-5.46)	(4.16-6.38)	(4.60-7.45)	(5.01-8.66)	(5.64-10.4)	(6.11-11.7)				
3-day	2.26	2.66	3.35	3.97	4.88	5.63	6.43	7.27	8.46	9.40				
	(1.93-2.60)	(2.27-3.06)	(2.85-3.87)	(3.35-4.60)	(4.01-5.87)	(4.50-6.83)	(4.96-7.95)	(5.37-9.20)	(6.00-10.9)	(6.47-12.3)				
4-day	2.40 (2.05-2.75)	2.83 (2.41-3.24)	3.57 (3.04-4.10)	4.22 (3.57-4.86)	5.17 (4.25-6.18)	5.95 (4.77-7.18)	6.77 (5.23-8.34)	7.64 (5.65-9.62)	8.85 (6.29-11.4)	9.81 (6.77-12.8)				
7-day	2.80 (2.41-3.18)	3.25 (2.79-3.70)	4.03 (3.45-4.60)	4.73 (4.02-5.41)	5.75 (4.75-6.82)	6.58 (5.30-7.89)	7.47 (5.80-9.14)	8.40 (6.26-10.5)	9.72 (6.95-12.5)	10.8 (7.47-13.9)				
10-day	3.17 (2.73-3.58)	3.64 (3.14-4.12)	4.46 (3.83-5.07)	5.20 (4.44-5.92)	6.27 (5.21-7.41)	7.16 (5.79-8.54)	8.09 (6.31-9.86)	9.09 (6.79-11.3)	10.5 (7.52-13.4)	11.6 (8.07-14.9)				
20-day	4.19 (3.64-4.70)	4.80 (4.17-5.39)	5.83 (5.04-6.56)	6.73 (5.78-7.59)	8.01 (6.67-9.33)	9.03 (7.34-10.7)	10.1 (7.92-12.2)	11.2 (8.42-13.8)	12.7 (9.19-16.1)	13.9 (9.78-17.8)				
30-day	5.03 (4.38-5.60)	5.77 (5.02-6.43)	6.99 (6.06-7.81)	8.02 (6.92-9.00)	9.46 (7.88-10.9)	10.6 (8.62-12.4)	11.7 (9.21-14.0)	12.9 (9.71-15.8)	14.5 (10.5-18.2)	15.7 (11.0-20.0)				
45-day	6.07 (5.31-6.72)	6.96 (6.09-7.72)	8.41 (7.33-9.35)	9.60 (8.31-10.7)	11.2 (9.36-12.8)	12.4 (10.1-14.4)	13.6 (10.7-16.2)	14.9 (11.2-18.1)	16.4 (11.9-20.5)	17.6 (12.5-22.4)				
60-day	6.94 (6.09-7.67)	7.96 (6.98-8.80)	9.59 (8.38-10.6)	10.9 (9.46-12.1)	12.6 (10.5-14.4)	13.9 (11.4-16.0)	15.2 (12.0-17.9)	16.4 (12.4-19.8)	17.9 (13.0-22.3)	19.1 (13.5-24.1)				

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical



PDS-based depth-duration-frequency (DDF) curves





NOAA Atlas 14, Volume 8, Version 2

Created (GMT): Wed Jun 2 21:08:35 2021

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Maps & aerials

Small scale terrain

Precipitation Frequency Data Server



Large scale terrain





Large scale aerial

Precipitation Frequency Data Server



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US Department of Commerce National Oceanic and Atmospheric Administration National Weather Service National Water Center 1325 East West Highway Silver Spring, MD 20910 Questions?: <u>HDSC.Questions@noaa.gov</u>

Disclaimer

APPENDIX B

- STANDARD SF-3 FORM
- WEIGHTED C COEFFICIENT
- RATIONAL METHOD CALCULATIONS
- ADS SC-740 STORMTECH CHAMBER

Missing SF-3 form, rational Method spreadsheets and StormTech information sheets. Please include.

Include detention pond spreadsheets for sizing of facilities.

include hydraulic calculations



Area-Weighting for Runoff Coefficient Calculation



Instructions: For each catchment subarea, enter values for A and C.

Subarea	Area	Runoff	Product		
ID	acres	Coeff.			
	Α	C *	CA		
input	input	input	output		
А	0.37	0.94	0.34		
В	0.60	0.94	0.56		
С	0.28	0.95	0.26		
D	0.51	0.95	0.49		
E	0.46	0.92	0.42		
F	1.27	0.95	1.21		
Sum:	3.49	Sum:	3.29		

Area-Weighted Runoff Coefficient (sum CA/sum A) = 0.94

*See sheet "Design Info" for inperviousness-based runoff coefficient values.

TOTAL AREA: TOTAL IMPERVIOUS:	F	п	D	С	נ סס	Dasii	Bacin		EX EX	Basin		Historic Basins (existi			Existing	Proposed/	Weighted Runoff Project Job Number: CO-265
3.49 86.56	1.27	0.46	0.51	0.28	0.60	0 37	Iotal	Tatal	3.50	Area	Total	na conditions.)	Multi-family (attached) Commercial Undeveloped Historical	Landscaping Paved Street	Roof		Coefficients 8-2008
Report states project area is approximately 4.9 acres. where is	0.00	0.14	0.00	0.00	0.00		Poof		0.00	Roof			45 175	100	90 90	IMP%	Inclue 'C' value corresponding to each
additional 1.5 acres?	0.00	0.00	0.00	0.00	0.00		Concrete Drive/Walk		0.00	Drive/Walk	Concrete	Land Use (A	100)%			% Impervious
	0.00	0.00	0.00	0.00	0.01		l andecano	(Ues)	2.82	Historical	Undeveloped	(cres)	Runoff (Hydrologi		~~	
	1.27	0.32	0.51	0.28	0.59	95 U	Paved		0.00	Street	Paved		Coefficients	c Grouping:	2	Soil Types:	
	0.00	0.00	0.00	0.00	0.00	0.00	Multi-family		0.00	Multi-family			C = Kc + (.85 Kc(2year) = C Kc(5year) = - Kc(10year) = Kc(100year) =	Type D	Nunn-Urban,	Nunn-Urban,	
	0.00	0.00	0.00	0.00	0.00		Commercial		0.00	Commercial			;8ir3786lv2+.77) 1.10i+.11 18i+.21 =39i+.46		2-5 %	0-2 %	
	0.89	0.83	0.89	0.89	0.87	0 87	3	Meiñiren	0.26	C2		Weighted	74i+.04)				
	0.90	0.85	0.90	0.90	0.88	م م	С'n		0.33	C5		Runoff Coe					
	0.92	0.87	0.92	0.92	0.90		C10		0.40	C10		fficient					
	0.96	0.92	0.96	0.96	0.94		C100		0.58	C100							Calculatec Check Date:
	100.0	96.9	100.0	100.0	99.2		%Imp		36.3	%Imp							4 By: TMD ad By: RP 6/11/2021