		BALSAM COMMENT-RESPONSE MATRIX - ADDENDUM 1	
		February 22, 2021	
	SHEETS	City Comments	Matrix Response
Park		set Construction Set_EGNP-Balsam Park_2021-01-29	
В	pg 1 of 4 (Erosion Control Plan)	Add Erosion and Sediment Control Signature block. See comment sheet. Add the Qualified Stormwater Management contact info.	SIGNATURE BLOCK ADDED. CAD REVISED
В	pg 2 of 4 (Water Service Plan)	Verify water tap material with W/S department, they have moved away from copper taps Verify the location of the water meter with W/S department, location requires corp stop to be located 1' (+/-) from the property line and the meter right after. Verify material of water service line.	WT01 HAS BEEN UPDATED TO INCLUDE MATERIAL OF PIPE, OFFSETS FROM EXISTING AND PROPOSED TREES PER CONVERSATION WITH D. HANNON OF WATER DEPARTMENT.
В	pg 3 of 4 (Details - Hardscapes)	Use details from urban drainage for erosion and sediment control details	UPDATED EROSION CONTROL DETAIL SHEETS (ECO2, ECO3) ADDED TO ECO1
В	pf 4 of 4 (Planting Plan)	Add the following notes and relocate plant material: 1. No plant material with mature growth greater than three (3) feet in height shall be planted within potable water, sanitary sewer, or non-potable irrigation easements. 2. No shrubs shall be planted within five (5) feet or trees within ten (10) feet of potable and non-potable water meters, fire hydrants, sanitary sewer manholes, or potable water, sanitary sewer, or non-potable irrigation mains and services.	
	2. Park Comments Folder: Balsa	m existing trees	
В		Approximate location of existing evergreen tree not shown in survey	CAD UPDATED AND REVISED
В		Approximate location of existing evergreen tree not shown in survey	CAD UPDATED AND REVISED
В		Approximate location of existing evergreen tree not shown in survey	CAD UPDATED AND REVISED
В		Existing evergreen tree not shown in survey	CAD UPDATED AND REVISED
В		Existing canopy tree not shown in survey	CAD UPDATED AND REVISED
В		Existing canopy tree not shown in survey	CAD UPDATED AND REVISED
	3. Park Comments Folder: COG_	DI_DripValve_2021	
В		COG Detail. NO NOTE.	
	4. Park Comments Folder: COG_	DI_RemoteValve_2021	
В		COG Detail. NO NOTE.	
	5. Park Comments Folder: Submi	ittal_Bidset Construction Set_EGNP-BalsamPark_2021-01-29_parks comments	
В	Title Sheet	Please double check drawing page numbers. Some have changed.	SHEET COUNT HAS CHANFGED AND WILL BE COORDINATED WITH ALL SHEETS IN THE 'ISSUED FOR CONSTRUCTION' SET.
В	Ex Cond & Demo pg 5 of 37	There are 5 existing trees here not shown in survey. Show on plan and label as tree to be saved and protected in place. See attached aerial imagery for more info.	AERIAL FROM COG ATTACHED TO SURVEY. CAD UPDATED FOR THOSE LOCATIONS.
В	pg 6 of 37	There is a tree here not shown in survey. Show in plan and label as canopy tree to be saved and protected in place. See attached aerial imagery for more info.	CAD UPDATED AND REVISED
В	Site Materials pg 8 of 37	I think we need to add a note clarifying that trash receptacles are mounted to concrete along the paths since those hatches are tricky to notice. Maybe say "And on concrete pads along crusher fines paths"	MORE DETAILED INFO ADDED TO NOTE. KEYNOTE # ADDED TO FURNISHINGS MATRIX AS WELL
В		The hardscape details are are page "DT01". Please revise and coordinate with sheet index on cover.	DETAIL SHEETS AND CALL-OUTS HAVE BEEN UPDATED
В		Hatch layer turned off in this viewport	HATCH PATTERN IS ON.
В	HCP pg 10 of 37	If able please add tangential radius to smooth out curve	CURVE AND HORIZONTAL CONTROL HAVE BEEN UPDATED
В	Planting plan pg 19 of 37	Please check area proposed to be re-sodded against the cut and fill plan and add callout to "resod to limits of disturbance"	AREA HAS BEEN UPDATED WITH REVISED CUT-FILL PLAN
В		I have some concerns about foot traffic through this area and whether or not the low grow seed can hold up. I like the location of the posts against the hill but want to limit future maintenance problems. Any suggestions? One thought I had was to adjust tree layout slightly with potential to add a narrow crusher path in the future.	TREE SPACING HAS BEEN REVISED PER CONVERSATION WITH CLINT ANDERS.
В		Change to red barron crab apple	TREE SPECIES HAS BEEN CHANGED
В	Irrigation Notes pg 23 of 37	"bar" striking out bottom cell of table	Deleted row
В	Irrigation plan pg 24 of 37	"crossed out text" in text box to the left of sheet. Comment below: "Only 5 existing zones in this area per as-built. Add 2 new zones. New and existing zones in new construction area will be on new 2 wire wire to existing Baseline controller. If existing service tee can not be used. Existing common lead, and all spare wires will need to be installed in a splice box. All existing "traditional wires" will need to be protected in place and operational on existing controller.	Deleted text, added note
В		NOTE: All new and existing valves in the new construction area shall have a Baseline BL-5201 BiCoder installed. Install per Baseline specs.	Added note
В		New 2wire wire path to existing controller. Sleeves will be required when crossing all hard and soft scape areas.	Added note
В		"crossed out text" in text boxes below plan.	Edited notes
В		Note: "50' area on the north and south sides of the construction zone"	Added text
В		Note: "Contractor shall be responsible for keeping the irrigation mainline, and all existing zones inside and outside the construction zone fully operational until final acceptance."	Added note
В		Due to the concentration of plant materials in this area please change the design of the heads to only 12" pop-ups. Eliminate the rotors in this area only.	Changed area to 12" pop-ups
		"Bar" striking out text box	Deleted text, added note
В			
B B		Only 5 existing zones in ths area per as-built. Add 5 new zones per note on west side	Added note
B B		Only 5 existing zones in ths area per as-built. Add 5 new zones per note on west side Grounding rod location per Baseline specs.	Added note Added grounding per Baseline specs

В	Irrigation plan pg 25 of 37	Use notes on sheet IR01	Changed notes
	26 627	San Maria da Barilla	
B B	pg 26 of 37	Grounding rod per Baseline specs. 2wire wire paths to existing controller	Added grounding per Baseline specs Added 2-wire path
В		Contractor to install 2wire wire loops into valve boxes A1, Master Valve and Flow Sensor in this approximate area.	Added note
B B	pg 27 of 37	Remove detail: Control valve (1"-2")	Removed detail
B B	pg 27 01 37	Remove decair. Control variet (2 - 2) See and use attached details	Added details
В		See and use attached users Remove detail: Prop control valve	Removed detail
В.	pg 29 of 37	Remove detail. Drip Control views Bienenstock's plan are showing up with with lower resolution. It looks like perhaps a PDF or image was xref'd instead of the plots being combined.	nemoved detail
В	pg 25 01 57	Please coordinate prints to avoid loss in resolution.	Not an irrigation sheet
	6 Planning Folder: Sub 3 Com	ment Letter. Reviewed by: April Tamburelli	
	pg 1 - Gen Comments	1. Repeat - Written responses to City comments were not provided. We would appreciate that written responses always be provided so we know how	
В	pg 1 den comments	you addressed our comments.	COMMENT-RESPONSE MATRIX PROVIDED
	pg 1 - Gen Comments -	2. No comment on Balsam Park	
В	Balsam	and the second s	
В		3. Once all comments have been addressed, please provide plans to be routed for sugnatures.	
-	pg 2 - Gen Comments	1. EDR would like to review stormwater details, irrigation sheets, and utility plans with future submittals to ensure compliance with Greeley Criteria and	
	,,	Code requirements. Clarify with future submittals, if non-potable water is going to be used to irrigate this area. Submit a utility plan to confirm water	MHFD EROSION CONTROL DETAILS HAVE BEEN INCLUDED IN BALSAM DRAWING SET.
В		service lines to be used for the water/sand area. If not being used, clarify if the existing water taps will be abandoned. Clarify if improvements are	WATER UTILITY HAS BEEN UPDATED PER CONVERSATIONS WITH WATER DEPARTMENT.
		needed to the drainage infrastructure with future submittals.	IRRIGATION DRAWINGS HAVE BEEN UPDATED PER PARKS COMMENTS.
•		2. Engineering Development Review did not review the following reports or sheets. Include these sheets and reports with any future submittals.	
		a)Geotechnical Report (East Memorial Natural Area and Balsam Park)	
		b)Drainage Report(East Memorial Natural Area)	
_		c)Hydraulic Report(East Memorial Natural Area and Balsam Park)	
В		d)Transportation Impact Study(East Memorial Natural Area and Balsam Park)	NOTED
		e)Irrigation Sheets(East Memorial Natural Area)	
		f)Utility Sheets (East Memorial Natural Area)	
		3. Relocate plant material located inside an exclusive easement. Add the following notes on the landscaping plans:	
		a)No plant material with mature growth greater than three (3) feet in height shall be planted within potable water, sanitary sewer, or non-potable	NOTES HAVE BEEN ADDED TO BLANTING DI AN INVATED LINE HAS BEEN DE ALICHED TO
В		irrigation easements.	NOTES HAVE BEEN ADDED TO PLANTING PLAN. WATER LINE HAS BEEN RE-ALIGNED TO
		b)No shrubs shall be planted within five (5) feet or trees within ten (10) feet of potable and non-potable water meters, fire hydrants, sanitary sewer	NOT IMPACT PLANTING AREA.
		manholes, or potable water, sanitary sewer, and non-potable irrigation mains and services.	
	Comment for East	4. 4) The City's Traffic Division is requesting parallel parking to be included along the length of 24th Street to beneficially serve the natural area portion of	f
	Memorial Natural Area	the project. This would require widening 24th Street and creating a 9-10' parallel parking lane. Please discuss with Allison Baxter	PER DISCUSSIONS WITH BRIAN WARD, NO PARKING ALONG 24TH WILL BE PROVIDED FOR
NA	(repeat comments - East	(Allison.Baxter@Greeleygov.com) and Scott Logan (Scott.Logan@Greeleygov.com) before future submittals. The existing bike lane on 24th Street needs	NATURAL AREAS.
	Memorial not submitted	to be preserved.	INATOTIAL AILEAS.
	yet)		
NA		5. There are two abandoned wells [Oil & Gas Operator Number: 10459; Well Number 1 and 16-68] on this location. Please call them out	CAD REVISED AND UPDATED
14/3		on the existing condition sheet	
		6. Since the sidewalk is being extended to the close proximity to the headwall on the existing ditch, please clarify if any railing needs to be	AT THIA TIME NO HANDRAIL IS PLANNED FOR THE DITCH HEADWALL BUT WILL BE
NA		added to the headwall as a safety feature to the park. Work with the ditch company on all modifications to ditch infrastructure and	REVIEWED THROUGH THE UPCOMING REVIEW OF NATURAL AREAS.
		crossings.	REVIEWED THROUGHT THE OF COMING REVIEW OF NATURAL AREAS.
	Comment for Balsam	7. Sheet DT01 - 7	
В	Sports Complex	a) Use stormwater details from Mile High Flood District, City Standards are out dated.	DETAILS REVISED AND UPDATED
	Stormwater	a) Use stormwater details from while right ribod bistrict, City Standards are out dated.	
В		8. State the proposed and current site impervious area as a percent impervious on the plans and the drainage memo. Stormwater impact	
В		fees are based on the developed sites proposed impervious area and need to be accounted for.	DISCUSSION WITH TEAM.
	Water and Sewer	9. Sheet WT01 - a) Verify water tap material with W/S department, they have moved away from copper taps. b) Verify the location of the	WT01 HAS BEEN UPDATED TO INCLUDE MATERIAL OF PIPE, OFFSETS FROM EXISTING AND
В	comments	water meter with W/S department, location requires corporation stop to be located 1' (+/-) from the property line and the meter right	PROPOSED TREES PER CONVERSATION WITH D. HANNON OF WATER DEPARTMENT.
		after. Current location may require a variance request. c) Callout/Verify material of water service line.	PROPOSED TREES PER CONVERSATION WITH D. HANNON OF WATER DEPARTIMENT.
		10. Sheet LS01 - a) add the following notes and relocate plant material that is not meeting criteria: 1. No plant material with mature growth greater	
		than three (3) feet in height shall be planted within potable water, sanitary sewer, or non-potable irrigation easements. 2. No shrubs shall be planted	NOTES HAVE BEEN ADDED TO PLANTING PLAN. WATER LINE HAS BEEN RE-ALIGNED TO
В		within five (5) feet or trees within ten (10) feet of potable and non-potable water meters, fire hydrants, sanitary sewer manholes, or potable water,	NOT IMPACT PLANTING AREA.
		sanitary sewer, or non-potable irrigation mains and services.	TO THE TOTAL STATE OF THE PARTY



EAST GREELEY NEIGHBORHOOD PARKS **BALSAM PARK**

1601 BLAKE ST, SUITE 200 DENVER, CO 80202 www.MATRIXDESIGNGROUP.COM

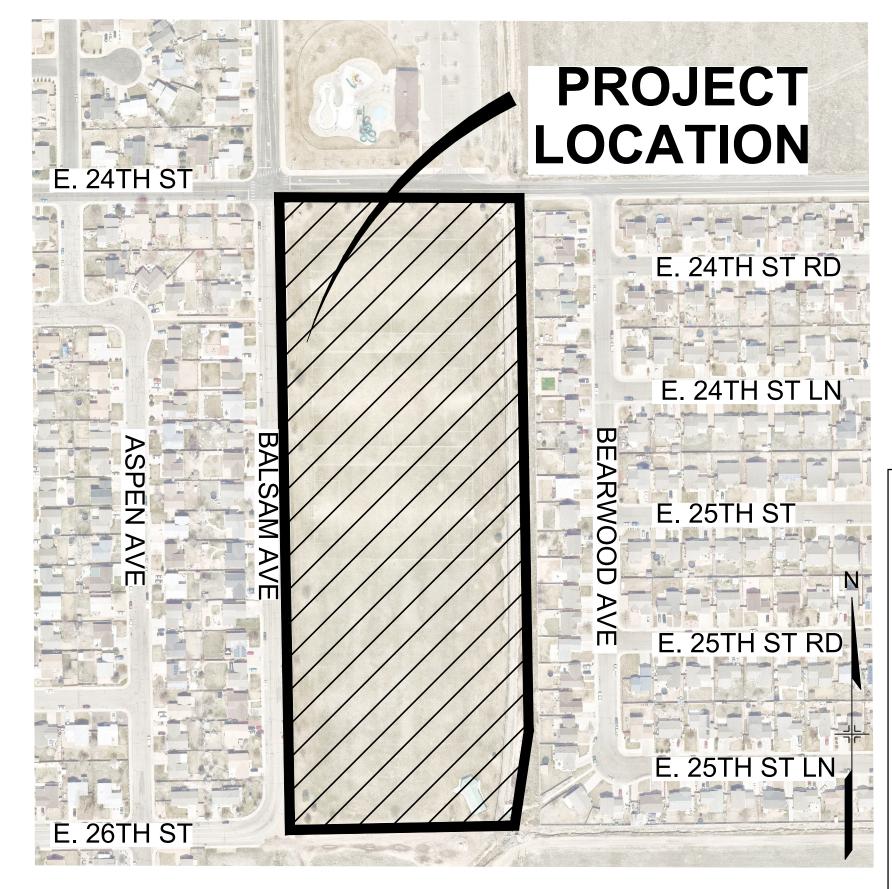
CONSTRUCTION PLANS

CITY OF GREELEY JANUARY 29, 2021

BID SET - NOT FOR CONSTRUCTION

SHEET INDEX

Sheet No.	SHEET INDEX Drawing Description	Drawing No.
1	Title Sheet	TS01
2	Project Quantities	QT01
3	General Notes	GN01
4-6	Existing Conditions & Demolition Plan	EX01-EX03
. ~~~~	Erosion Control Plan	EC01
8-9	Erosion Control Details	EC02-EC03 }
10	Site Materials Plan	SM01
11-12	Horizontal Control Plan	HC01-HC02
13	Point, Line & Curve Tables	HC03
14	Grading Plan	GR01
15	Cut and Fill Plan	GR02
16	Water Service Plan	WT01
17	Details - Hardscapes	DH01
18-19	Details - Site Furnishings	DF01-DF02
20	Planting Schedule, Legends & Notes	LS00
21-23	Planting Plan	LS01-LS03
24	Planting Details	LS04
25	Irrigation Notes & Schedules	IR00
26-28	Irrigation Plans	JR01-JR03
29-31	Irrigation Details	IR04-IR06
32	Nature Play General Notes	NP1.0
33	Nature Play Site Plan	NP2.0
34	Nature Play Material Schedule	NP2.1
35	Nature Play Grading	NP3.0
36-40	Nature Play Details	NP4.0-NP4.4



VICINITY MAP ORIGINAL SCALE

BASIS OF BEARING

THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE SCALE AT 0.99973183 (1.00026824) ABOUT POINT 0,0

PROJECT BENCHMARK

VERTICAL DATUM:

NORTH AMERICAN VERTICAL DATUM OF 1988. VERTICAL BENCHMARK IS NGS DESIGNATION "A 392," ELEVATION=4654.18, A STAINLESS STEEL ROD IN A VAULT LOCATED NEAR THE INTERSECTION OF 13TH STREET AND THE UNION PACIFIC RAILROAD IN GREELEY, COLORADO, ±44.3' NORTH OF THE CENTERLINE OF THE WEST BOUND LANE OF THE STREET AND ±31.5' WEST OF THE NEAR RAIL OF THE RAILWAY.

HORIZONTAL DATUM:

COLORADO STATE PLANE NORTH ZONE COORDINATES NAD 83(2011) DATUM. HORIZONTAL CONTROL BASED UPON TRIMBLE VRS NETWORK SOLUTION.

CONTACT

MATRIX DESIGN GROUP 303-572-0200 **DENVER, CO 80202**

ROBERT_KREHBIEL@MATRIXDESIGNGROUP.COM LANDSCAPE ARCHITECT - BOB ECK & JANE KOPPERL

BOB ECK@MATRIXDESIGNGROUP.COM JANE_KOPPERL@MATRIXDESIGNGROUP.COM

SURVEYOR - PAUL B. GROVES, PLS PAULG@KINGSURVEYORS.COM 970-686-5011

CULTURE, PARKS, AND RECREATION DIVISION

COMMUNITY DEVELOPMENT DIVISION

GEOTECHNICAL ENGINEER -ERIC BERNHARDT, P.E.

RRIGATION DESIGNER -KEN DiPAOLO

303-980-5327

970-351-0460

PRIVATE UTILITY OWNERS

XCEL ENERGY SHAYLA MONTANO 970-381-9734 AREA DESIGN MANAGER 1500 6TH AVE

GREELEY, CO 80632 SHAYLA.A.MONTANO@XCELENERGY ATMOS ENERGY (GAS)

JERRY ADAMS 970-304-2075 P.O. BOX 1200 GREELEY, CO 80634

ROBERT WILLIAMS 303-632-0017

CENTURYLINK/LUMEN (COMMUNICATIONS) CHERYL BOOTH 970-297-7529 124 W MAGNOLIA STREET FORT COLLINS, CO 80524 CHERYL.A.BOOTH@LUMEN.COM SR. MANAGER LOCAL NETWORK 8 **CONSTRUCTION OUTSTATE**

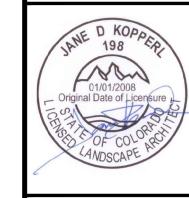
DATE

DATE

NORTHERN COLORADO

- APPROVALS -CITY OF GREELEY CITY FIRE DEPARTMENT DATE CITY ENGINEER STORMWATER DIVISION WATER AND SEWER DIVISION

ALL WORK MUST BE IN ACCORDANCE WITH APPLICABLE CITY OF GREELEY CONSTRUCTION STANDARDS. THE CITY'S ACCEPTANCE ALLOW FOR PLAN DISTRIBUTION AND PERMIT APPLICATION. THE CITY'S ACCEPTANCE SHALL NOT RELIEVE THE DESIGN ENGINEER'S RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DESIGN DEFICIENCIES FOR WHICH THE CITY IS HELD HARMLESS.



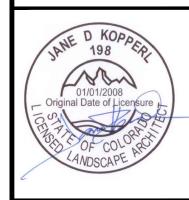
		2	4	RCE	CIP2020-0013		4	NA	01/29/2021	
		UKAWN	DESIGNED	REVIEWED	PROJECT NO.		HORZ. SCALE	VERT. SCALE	SUBMITTAL DATE	
	NOTES	ADDENDUM 1	#	#	#	#	#	#	#	
	NO.	-	#	#	#	#	#	#	#	
	DATE	02.22.2021	#	#	#	#	#	#	#	
1										

SHEET 1 OF 40



NO.	SPECIFICATION SECTION NO.	DESCRIPTION OF BID ITEM	PAY UNIT	QUANTITY Phase 1
	n Services			
1	CDOT 626	Mobilization Treffic Central on Balacem and parking adjacent to improvements	LS	1
3	CDOT 630 COG 00510	Traffic Control - on Balsam and parking adjacent to improvements General Conditions	LS LS	1
4	CDOT 208	Temporary Facilities - Construction Fencing	LF	1325
5		Sediment Control Log (12 inch)	LF	1245
6		Silt Fence	LF	0
7		Rock Check Dam	LF	0
8		Inlet Protection - Aggregate Bags	LF	150
9		Vehicle Tracking Pad	EA	0
10 11		Pre-Fabricated Vehicle Tracking Control Concrete Washout Structure	EA	1
12	CDOT 213	Mulching (Hydraulic or crimped straw)	EA AC	0.3
13	CDO1 213	Mulch Tackifier	LB	600
14	CDOT 208	Soil Retention Blanket	SY	0
15		Sweeping (Sediment Removal)	HRS	16
16		Sediment Removal and Disposal (Labor)	HRS	16
17		Sediment Removal and Disposal (Equipment)	HRS	8
18		Erosion Control Supervisor	DAYS	90
19	CDOT 625	Construction Surveying and Staking	LS	1
20	Dwgs	Nature Play Items	1.0	
20 21		Concrete spillway with Cadron Pump and Boulders Wacky Post: 12" dia	LS EA	8
22		Wacky Post: 12 dia Wacky Post: 18" dia	EA	4
23		Accessible Entrance: 60" Opening	EA	3
24		Horizontal Log Border: 24" dia	LF	205
25		Log Cluster: Version 3A	EA	4
26		Log Cluster: Version 4B	EA	4
27		Log Tunnel	EA	1
28		Stump Activity Table: 32" ht	EA	1
29		Stump Activity Table: 34" ht	EA	1
30		Stump Activity Table: 38" ht	EA	1
31		Natural Stone Boulder Cave	EA	1
32		Amorphous Log Climber: Large	EA	2
33	12 93 00	Ecological Restoration Amorphous Log	EA	4
34	12 93 00	Site Furnishings Picnic Tables - 6ft	EA	2
35		Picnic Tables - 8ft ADA	EA	2
36		Trash Receptacles	EA	6
37		Bike Racks	EA	2
38		Shade Structures - Natural Structures, Catskill Series, 16' x 34'	LS	4
39		Foundations for Shade Structures - structural concrete	CY	16
40	COG 02230	Clear and Grubbing - existing sod	AC	1.10
50.0	COG 02220	Earth Work	0.54	
41	COG 02230	Topsoil remove, stockpile and replace - 4" depth assumed	CY	567
42		Embankment - cut on site - no export - grading plus 3 ft depth at sand play area	CY	209
43		Embankment - Import material	CY	1,241
44	COG 02229	Aggregate Base Course	CY	<u></u>
45	COG 02595	Asphalt Pavement - utility cut and backfill	SY	12
40	COG 03310	Concrete Walks, Curbs, and Miscellaneous Flatwork	011	00-
46		Concrete Pavement (6" thick)	SY	267
47 48	COG 02730	Concrete Vertical Curb (12"x6") around crusher fines area Crusher Fines Pavement - 4" depth, stabilized	LF SY	157
40	COG 02730	Irrigation Systems	31	1,161
49	000 020 10	Irrigation Adjustment of existing system	LS	1
50		Irrigation - bubblers to trees	EA	35
51		Irrigation - drip/techline for shrubs	SF	1,915
52	COG 02920	Low Grow seed mix with mycorrhizae	SF	19,265
53	COG 02930	Sod Replacement - repair	SF	9,998
	COG 02900	Trees, Plants, and Groundcovers		
54	Trees	Acer negundo 'Sensation' - Sensation Boxelder, 2" cal.	EA	3
55		Catalpa speciosa - Western Catalpa, 2" cal.	EA	3
56		Celtis occidentalis 'Prairie Pride' - Prairie Pride Hackberry, 2" cal.	EA	4
57		Gleditsia triscanthos inemois True Shade' True Shade Heneyloeust, 2" cal.	VEA√	$\sim \stackrel{\sim}{4} \sim$
58		Malus 'Red Barron' - Red Barron Crabapple, 2" cal.	EA EA	2
59	Eleraroona	Quercus muehlenbegii - Chinkapin Oak, 2" cal.		5
60 61	Evergreens	Juniperus scopulorum 'Grey Gleam', 5 ft Picea x glauca 'Big Berta' - Big Berta White Spruce, 5 ft	EA EA	3
62		Picea glauca 'Densata' - Black Hills Spruce, 6 ft	EA	2
63		Picea pungens 'Fastigiata' - Fastigiate Spruce, 6 ft	EA	4
64		Pinus edulis - Pinyon Pine, 5 ft	EA	2
65	Shrubs	Amelanchier alnifolia - Saskatoon Serviceberry, 4 ft, clump	EA	5
66		Amelanchier canadensis - Shadblow Serviceberry, 4 ft clump	EA	15
67		Philadelphus lewisii 'Cheyenne' - Cheyenne Mock Orange, 5 gal.	EA	12
68		Physocarpus opulifolius 'Coppertina' - Coppertina Ninebark, 4 ft clump	EA	6
69		Prunus pumila besseyi 'Pawnee Buttes' - Creeping Western Sand Cherry, 5 gal.	EA	17
70		Symphoricarpos albus - White Snowberry, 5 gal.	EA	10
71		Symphoricarpos occidentalis - Western Snowberry, 5 gal.	EA	13
72		Syringa vulgaris - Common Purple Lilac, 4 ft clump	EA	4
73		Mulching - coffee mulch, 4" depth	SF	1915
74	COG 02514	Water Utilities - Waterline extension for sand and water play	LS	1
		Drawings/Details		
75	32 18 18	Sand for Sand Pit at base of spillway - 2 ft depth	CY	140
76	MHFD 31 37 00	Random Boulders - 36" dia	EA	8
77		Random Boulders - 24" dia	EA	7
78	NIATE DEDITE	Random Boulders - 18" dia	EA	5
JD VI	RNATE - PERIMETER	Topsoil remove, stockpile and replace - 4" depth assumed	0)/	440
	000 00000	Lionson remove stockhile and replace - //" denth assumed	CY	118
79 80	COG 02230 COG 02730	Crushed Stone Paving - 4" depth, stabilized	SY	1,030

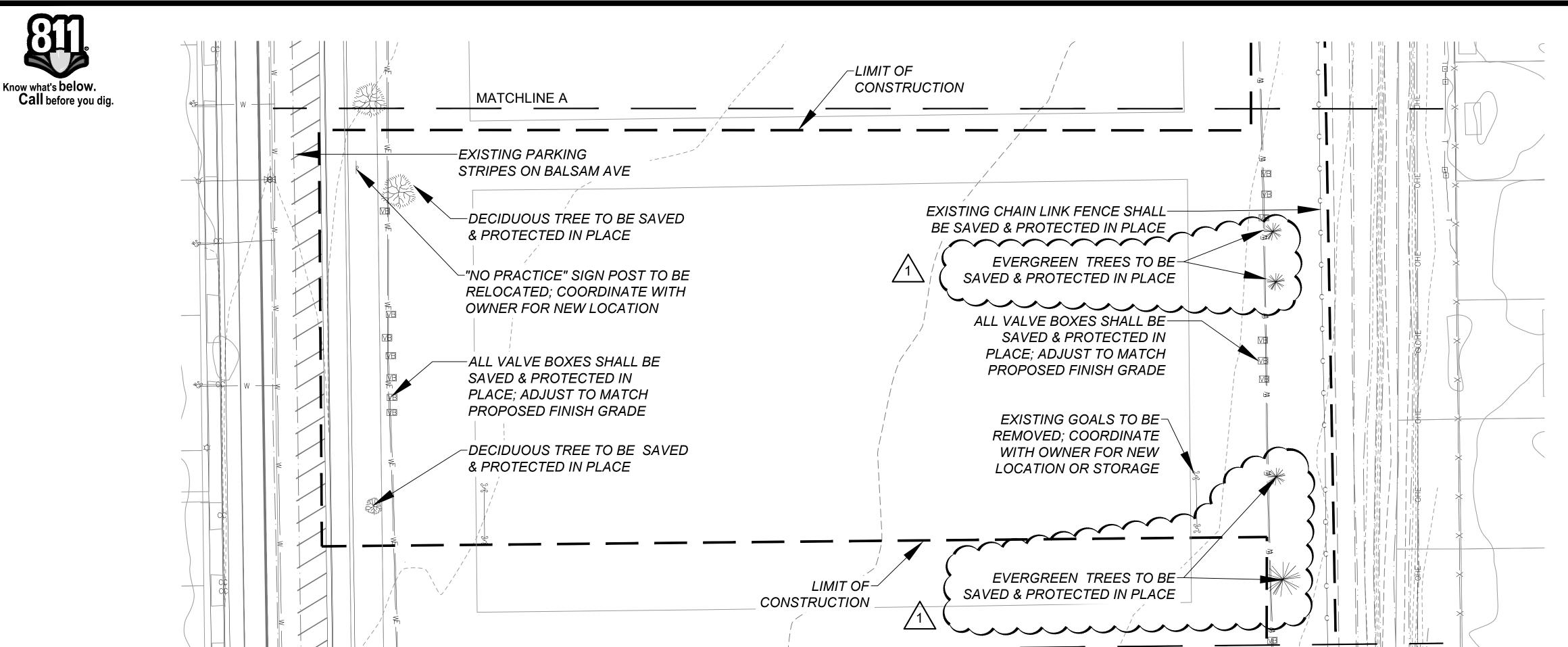




DATE	NO.	NOTES		į
02.22.2021	_	Addendum 1: Quantities Revisions	DRAWN)
#	#	#	DESIGNED	⊴
#	#	#	REVIEWED	RCE
#	#	#	PRO.IECT NO	CIP2020
#	#	#		
#	#	#	HORZ. SCALE	₹ Z
#	#	#	VERT. SCALE	¥ V
#	#	#	SUBMITTAL DATE	01.29.20
#	#	#		

EAST MEMORIAL
NEIGHBORHOOD PARKS
PROJECT QUANTITIES
BALSAM PARK
D SET - NOT FOR CONSTRUCTION

QT01 SHEET 2 OF 36



MATCHLINE B

LEGEND



EXISTING UNDERGROUND ELECTRIC

EXISTING OVERHEAD ELECTRIC — w — EXISTING WATER

EXISTING TELEPHONE **EXISTING GAS**

---- EXISTING 5 FOOT CONTOUR

EXISTING FIBEROPTIC LINE & VAULT

——————— EXISTING CHAIN LINK FENCE

EXISTING IRRIGATION VALVE BOX

EXISTING CONDITIONS & DEMOLITION NOTES

- FIELD VERIFY LOCATIONS OF EXISTING TREES AND HAVE THE OWNER VERIFY ANY REROUTING OF THE PATH OR PROPOSED DESIGNS.
- UNLESS NOTED OTHERWISE, ALL EXISTING IMPROVEMENTS, INCLUDING TREES, SHALL BE SAVED AND PROTECTED.
- ALL EXISTING IMPROVEMENTS TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING ITEMS SHALL BE REPAIRED/REPLACED AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 4. UNLESS OTHERWISE NOTED, ALL EXISTING UTILITY BOXES (WATER VALVE BOXES, TELEPHONE BOXES, PULLBOXES, MANHOLES, ETC.) WITHIN THE LIMIT OF CONSTRUCTION SHALL BE ADJUSTED TO MATCH NEW FINISH GRADE, AS NECESSARY. CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITY COMPANIES AS NECESSARY.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- REFERENCE SITE MATERIALS, HORIZONTAL CONTROL, AND GRADING PLANS FOR LAYOUT OF PROPOSED IMPROVEMENTS, IN ORDER TO DETERMINE THE EXACT EXTENT OF DEMOLITION AS SHOWN ON THIS PLAN.
- 7. CONTRACTOR SHALL COORDINATE WITH OWNER FOR NEW LOCATION OF "NO PRACTICE" SIGN.
- LOCATE ALL EXISTING UTILITIES PRIOR TO DIGGING. IF ANY DISCREPANCIES BETWEEN EXISTING UTILITIES AND PROPOSED IMPROVEMENTS OCCUR, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- 9. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE BEFORE COMMENCING WITH DEMOLITION.
- 10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROLS, FENCING AND SAFETY DEVICES NEEDED TO INSURE THE SAFETY AND WELFARE OF THE PUBLIC DURING CONSTRUCTION.

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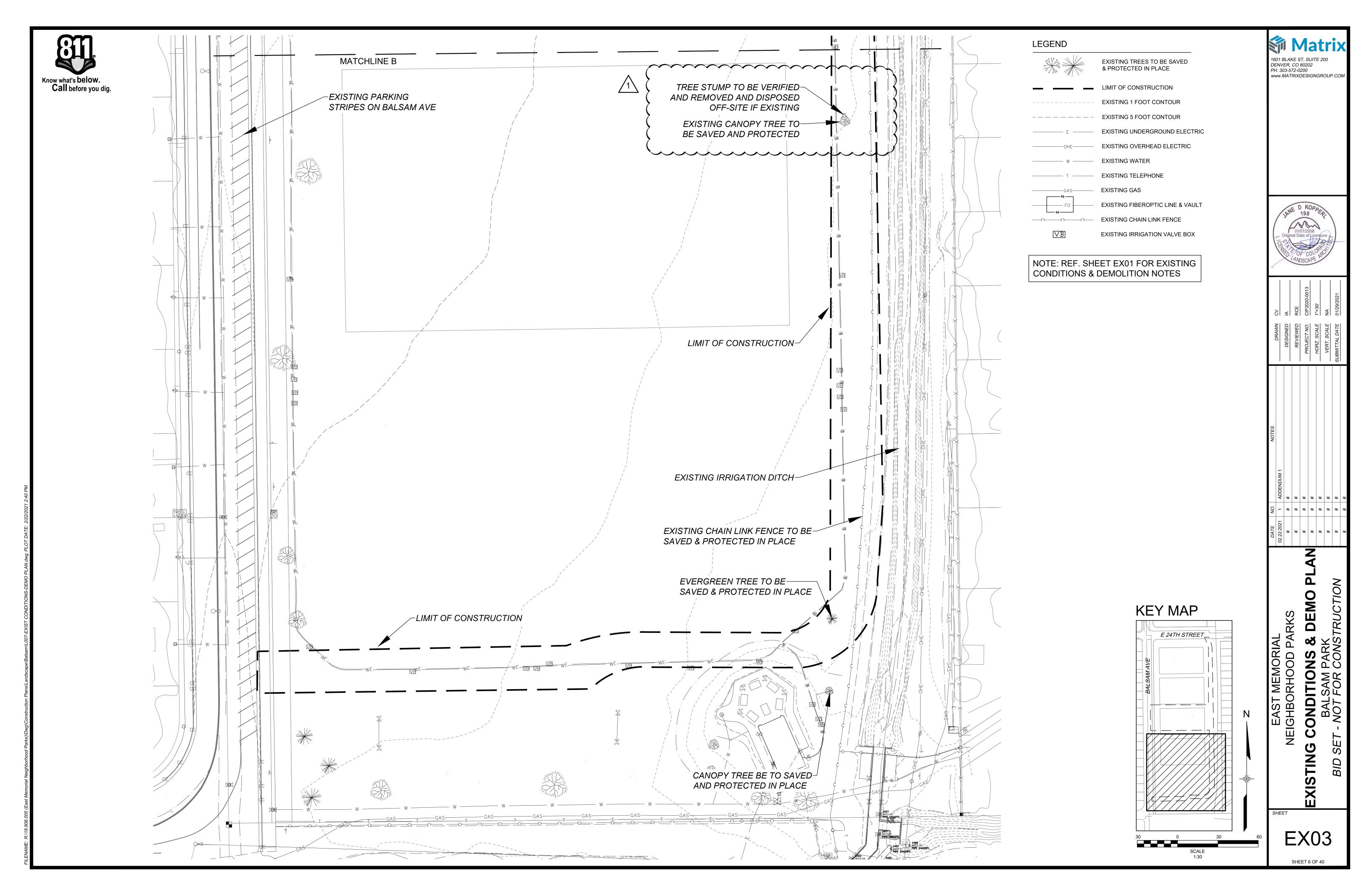
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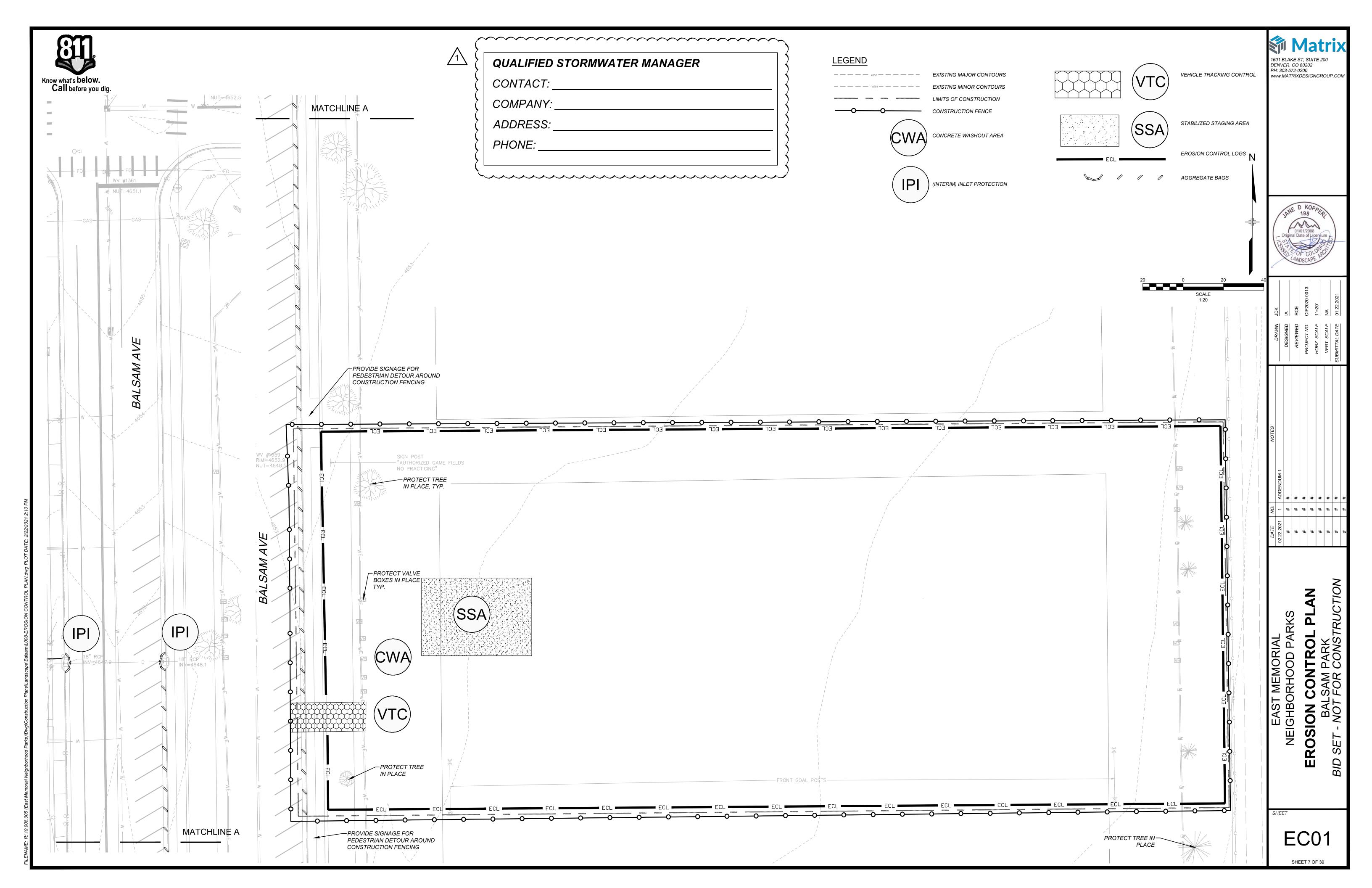
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SHEET 4 OF 40

KEY MAP

E 24TH STREET

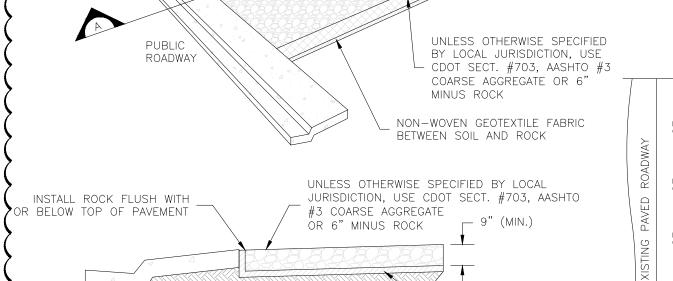


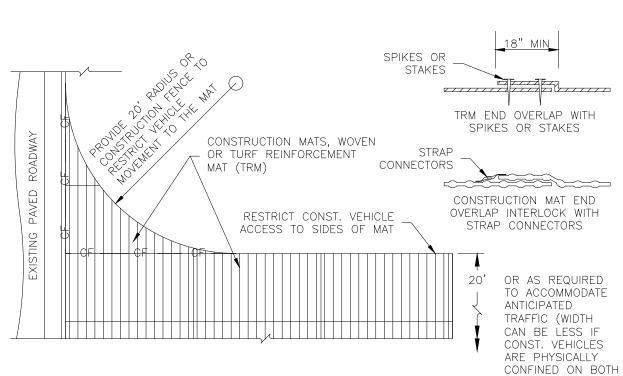


NON-WOVEN GEOTEXTILE

PAVED -

ROADWAY





- CONSTRUCTION MATS, WOVEN OR TRM

CONSTRUCTION SITE,

STABILIZED STORAGE AREA

or staging area

SIDES)

VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

COMPACTED SUBGRADE -

-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

SECTION

VTC—1. AGGREGATE VEHICLE TRACKING CONTROL

. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

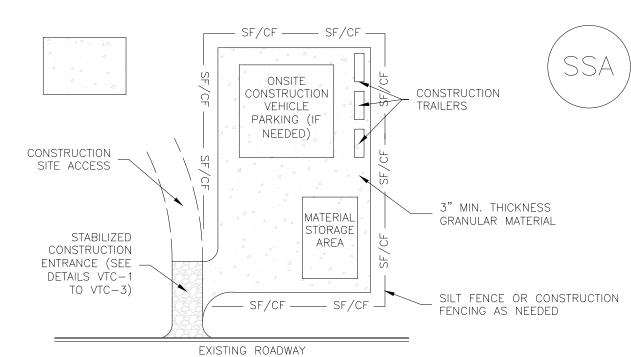
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR

-LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL. 5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT

SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK. 6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

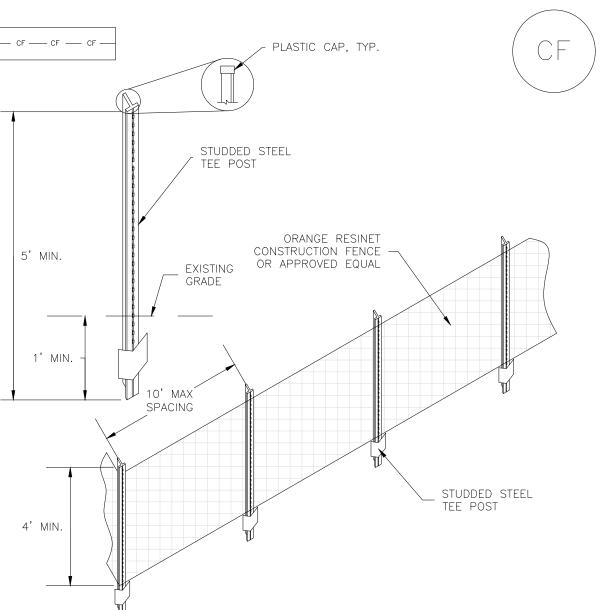
STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.



CF-1. PLASTIC MESH CONSTRUCTION FENCE

CONSTRUCTION FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION FENCE.

2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING

3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY. 4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.

5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

CONSTRUCTION FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

6. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

STABILIZED STAGING AREA MAINTENANCE NOTES

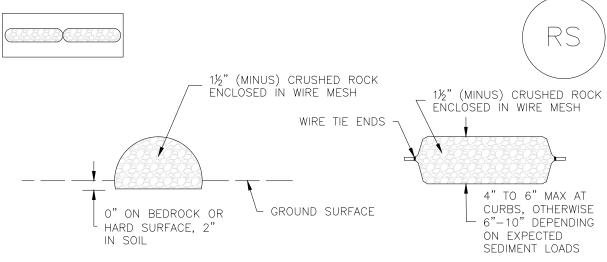
5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

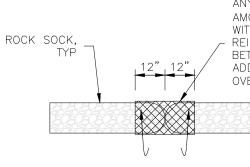
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)



ROCK SOCK SECTION

ROCK SOCK PLAN



ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 11/2" (MINUS) CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH SECURED TO ENDS OF ROCK REINFORCED SOCK. AS AN ALTERNATIVE TO FILLING JOINTS BETWEEN ADJOINING ROCK SOCKS WITH CRUSHED ROCK AND ADDITIONAL WIRE WRAPPING, ROCK SOCKS CAN BE OVERLAPPED (TYPICALLY 12-INCH OVERLAP) TO AVOID GAPS.

GRADATION TABLE					
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES				
	NO. 4				
2" 1½" 1" 3⁄4" 3⁄8"	100 90 - 100 20 - 55 0 - 15 0 - 5				
MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.					

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS.

ROCK SOCK JOINTING

2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS). 3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF $\frac{1}{2}$ ", RECOMMENDED MINIMUM ROLL WIDTH OF 48"

4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE. RS-1. ROCK SOCK PERIMETER CONTROL

ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE ROCK SOCK.

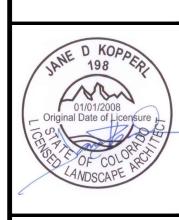
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

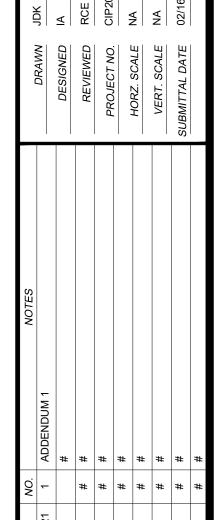
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

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SHEET 9 OF 39

STOCKPILE PROTECTION PLAN MAXIMUM SILT FENCE (SEE SF DETAIL FOR INSTALLATION REQUIREMENTS) SECTION A

SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:

-LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA MAINTENANCE NOTES

DISCOVERY OF THE FAILURE.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

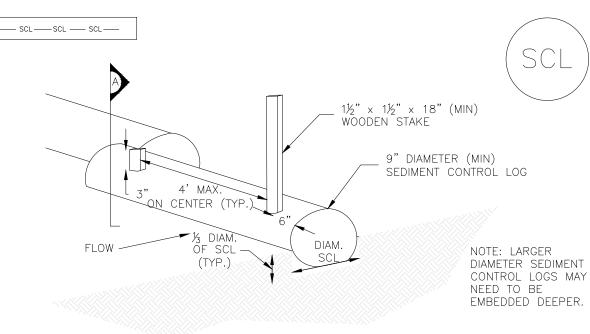
DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

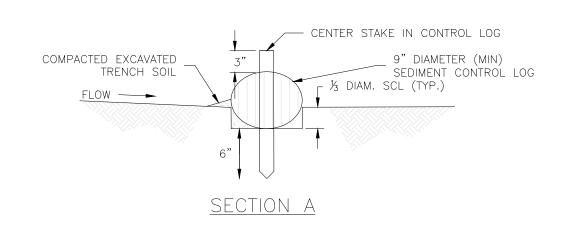
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

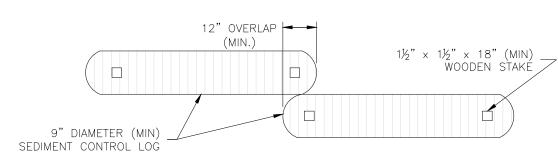
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. 7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



SEDIMENT CONTROL LOG





8 X 8 MIN.

THE PERIMETER

COMPACTED BERM AROUND

12" TYP. —

UNDISTURBED OR 1

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:

LEAST 3' DEEP.

-CWA INSTALLATION LOCATION.

OF CONCRETE TRUCKS AND PUMP RIGS.

LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

COMPACTED SOIL

SEDIMENT CONTROL LOG JOINTS

SCL-1. SEDIMENT CONTROL LOG

CONCRETE WASHOUT

SIGN

CONCRETE WASHOUT AREA PLAN

8 X 8 MIN.

CWA-1. CONCRETE WASHOUT AREA

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR

SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE,

THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND

LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A

WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF

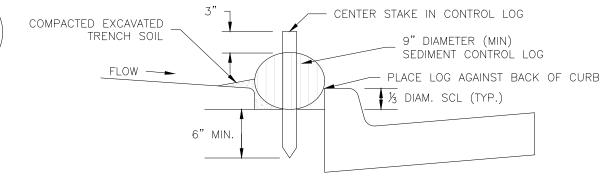
MIN.

VEHICLE TRACKING

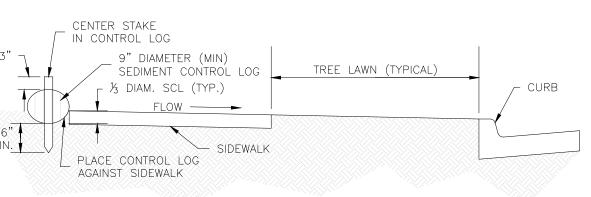
CONTROL (SEE VTC -

DETAIL)

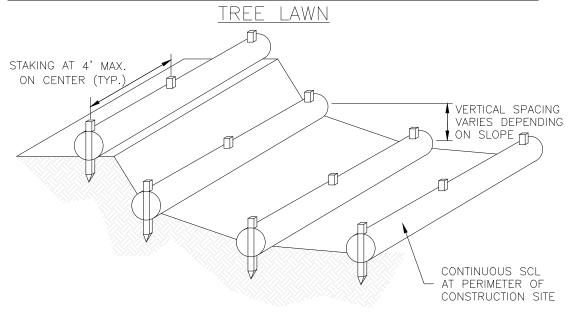
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SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB



SCL-3. SEDIMENT CONTROL LOG AT SIDEWALK WITH



SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.

2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.

3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.

4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE

5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST

6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER.

7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

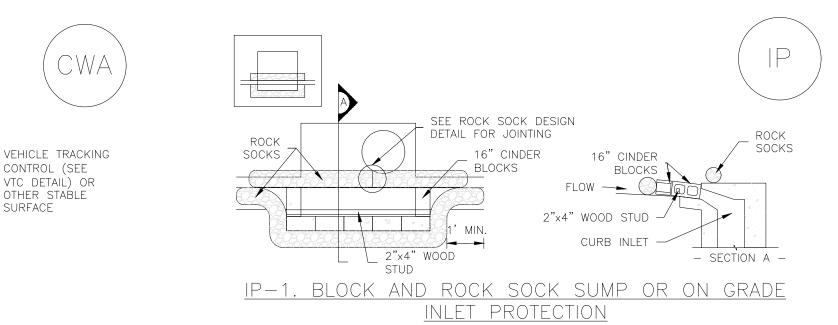
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.

5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

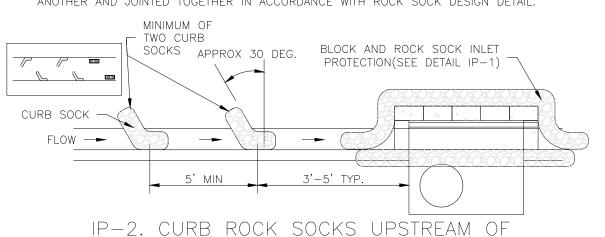


BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A

SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB. 3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.

2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.

INLET PROTECTION

3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.

4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

GENERAL INLET PROTECTION INSTALLATION NOTES

-LOCATION OF INLET PROTECTION.

-TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)

2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

DIFFERENCES ARE NOTED.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE

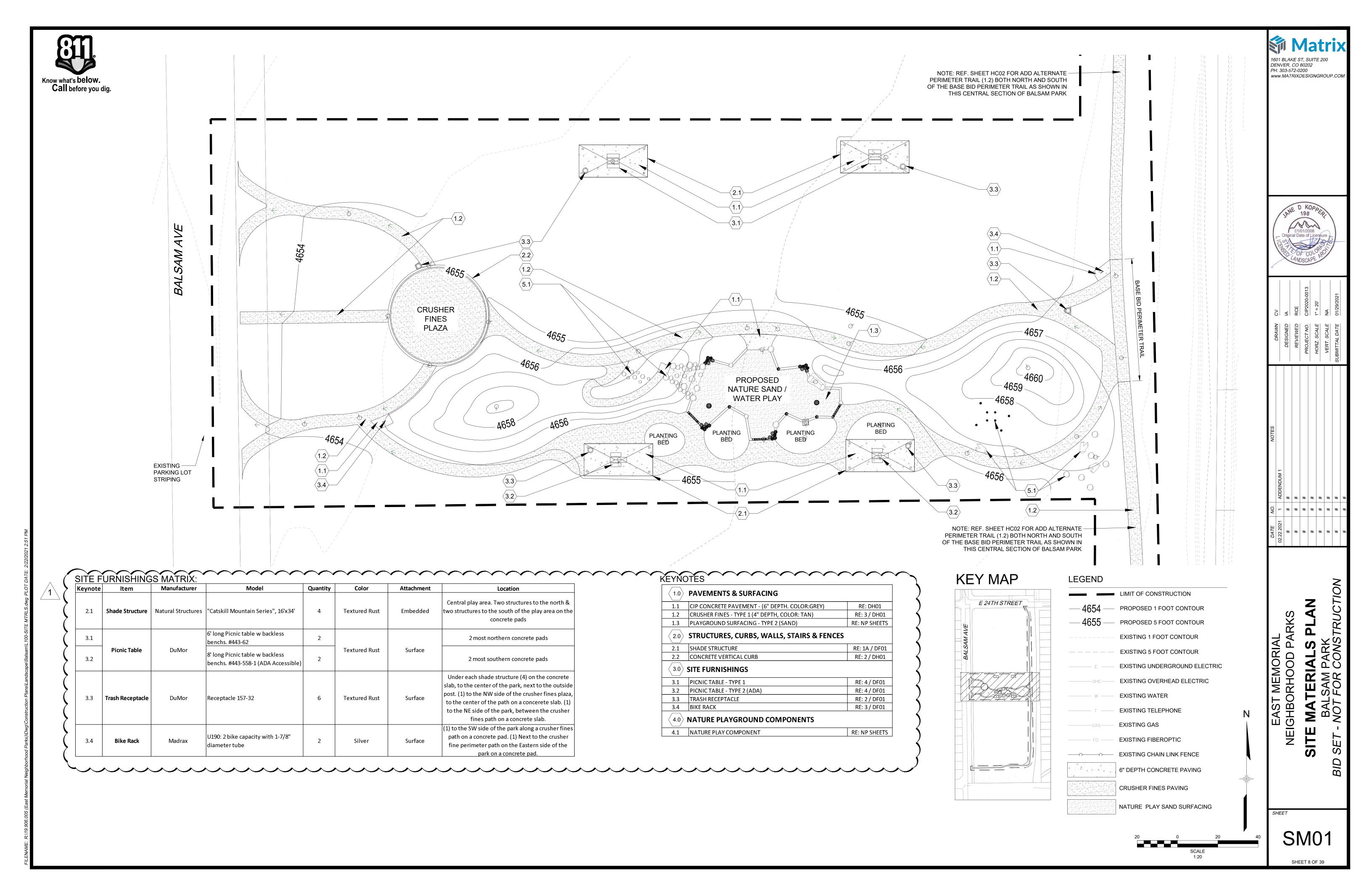
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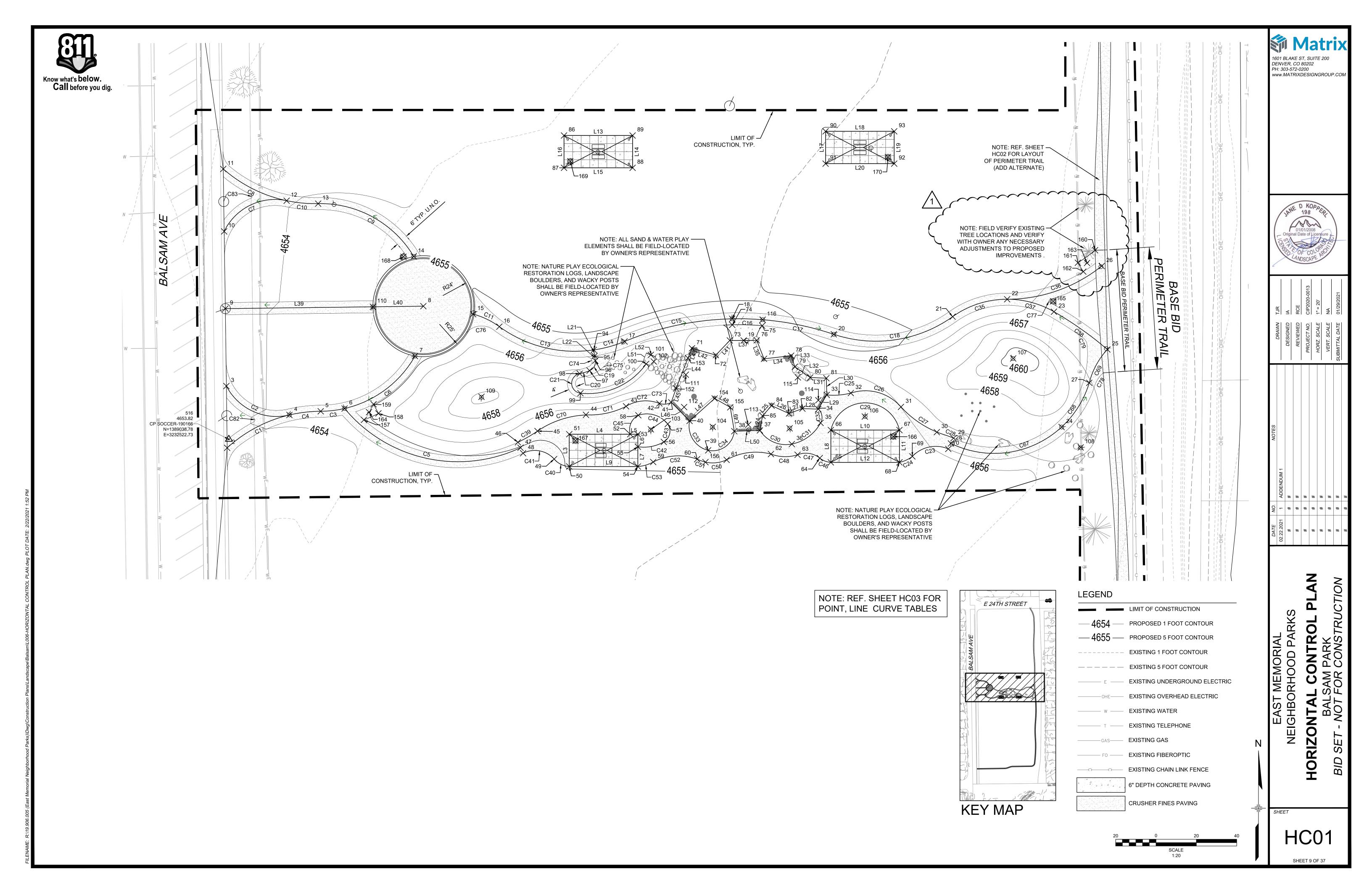
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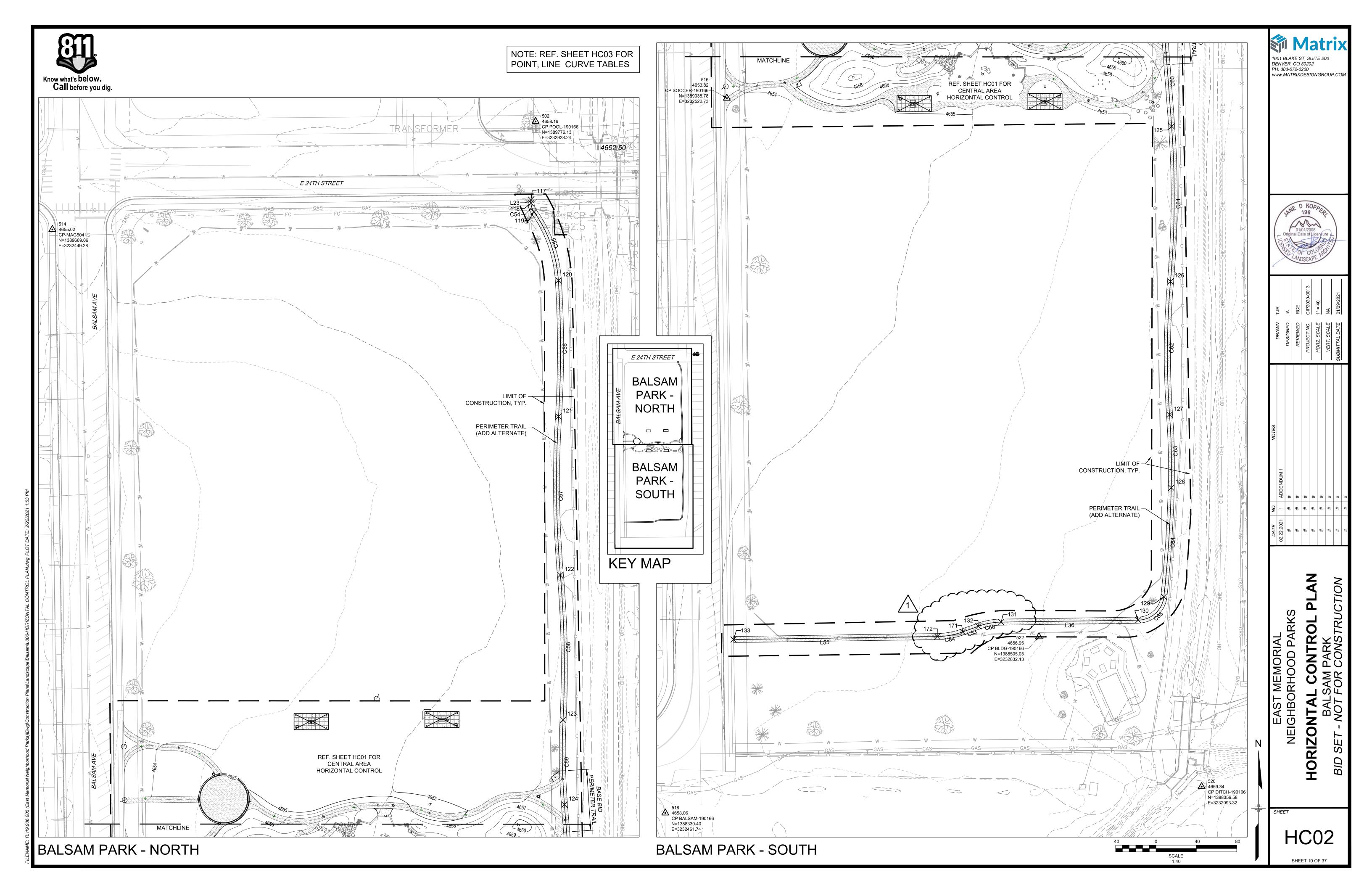
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SHEET 9 OF 39









•	Point Table									
Point #	Northing	Easting	Elev	Description						
2	1389034.55	3232521.89	4653.75	EX CONC/PC						
3	1389065.16	3232521.51	4653.65	EX CONC/PC						
4	1389050.84	3232552.75	4654.32	PT/PC						
5	1389052.67	3232568.26	4654.62	PT/PC						
6	1389054.04	3232580.08	4654.80	INT/PC						
7	1389080.01	3232614.98	4654.99	PT						
8	1389104.75	3232619.13	4655.47	СР						
9	1389103.53	3232520.99	4653.53	EX CONC						
10	1389141.80	3232520.40	4653.37	EX CONC/PC						
11	1389172.72	3232519.95	4653.18	EX CONC/PC						
12	1389157.01	3232551.37	4653.91	PT/PC						
13	1389155.54	3232566.99	4654.22	PC/PT						
14	1389129.37	3232614.37	4654.99	PT						
15	1389100.81	3232643.81	4654.99	PC						
16	1389094.59	3232656.79	4655.35	PT/PC						
17	1389087.27	3232718.85	4656.97	PT/PC/HP						
18	1389098.48	3232772.18	4655.75	GB						
19	1389087.75	3232777.87	4655.64	FG PLAY						
20	1389090.81	3232822.54	4654.49	PT/PC/LP						
21	1389099.54	3232881.45	4655.37	PT/PC						

		Point Table		
Point #	Northing	Easting	Elev	Description
22	1389108.17	3232908.47	4655.78	PT/PC
23	1389102.00	3232931.66	4656.16	PT/PC
24	1389044.85	3232935.45	4657.55	HP
25	1389083.29	3232958.13	4656.65	PT/PC
26	1389124.60	3232955.32	4656.50	PT
27	1389066.77	3232949.16	4657.03	PT/PC
28	1389036.72	3232880.60	4656.19	PC
29	1389039.37	3232881.89	4656.25	PT/PC
30	1389042.32	3232873.62	4656.18	PT/PC
31	1389054.82	3232855.84	4655.80	PT/PC
32	1389061.70	3232830.99	4655.85	PT/PC
33	1389060.77	3232819.07	4656.31	TL
34	1389053.76	3232814.86	4656.31	TL
35	1389046.91	3232816.00	4655.83	PT/PC
36	1389036.42	3232801.75	4655.70	PT/PC
37	1389043.17	3232785.92	4656.31	TL
38	1389042.78	3232773.23	4656.31	TL
39	1389033.31	3232760.27	4655.40	PC/PT
40	1389047.89	3232751.07	4656.31	TL
41	1389057.11	3232741.99	4656.31	TL

				Point Table		
	Point	# North	ning	Easting	Elev	Description
	42	13890	56.56	3232736.10	4655.59	PT/PC
	43	13890	55.13	3232719.61	4655.47	PT/PC
	44	13890	50.93	3232699.70	4655.23	PT/PC
	45	138904	12.86	3232675.70	4655.13	PT/PC
	46	13890	37.31	3232666.00	4655.05	EOP PC
	47	13890	34.59	3232667.28	4654.99	PT
	48	13890	31.88	3232668.55	4654.93	EOP PC
	49	138902	28.99	3232683.95	4654.90	EOP/PT/PC
	50	138902	25.30	3232691.43	4655.04	EOP
	51	138904	11.30	3232691.43	4655.04	EOP
	52	13890	11.30	3232721.64	4655.04	EOP
	53	138904	11.30	3232725.43	4655.04	EOP
	54	138902	25.30	3232725.43	4655.04	EOP
	55	13890	35.10	3232725.43	4655.04	EOP
	56	13890	37.49	3232738.30	4655.23	PT/PC
	57	13890	16.37	3232740.24	4655.53	PT/PC
	58	13890	50.70	3232725.68	4655.27	PT/PC
	59	138902	27.53	3232733.03	4655.12	PC/PT
	60	138902	28.93	3232754.82	4655.30	PT/PC
	61	13890	28.61	3232769.43	4655.52	PT/PC
1						
				Point Table		

Point Table								
Point #	Northing	Easting	Elev	Description				
62	1389031.46	3232791.40	4655.59	PT/PC				
63	1389031.12	3232804.60	4655.61	PT/PC				
64	1389029.48	3232815.60	4655.72	PT/PC				
65	1389027.37	3232821.08	4655.83	EOP				
66	1389043.37	3232821.08	4655.83	EOP				
67	1389043.37	3232855.08	4655.83	EOP				
68	1389027.37	3232855.08	4655.83	EOP				
69	1389030.32	3232861.48	4655.97	PT/PC				
70	1389034.02	3232879.29	4656.13	PT/PC				
71	1389083.87	3232752.26	4656.31	TL				
72	1389080.51	3232764.10	4656.31	TL				
73	1389087.76	3232771.02	4656.31	TL				
74	1389095.48	3232772.24	4655.79	EOP				
75	1389095.08	3232787.07	4655.79	EOP				
76	1389087.82	3232784.36	4656.31	TL				
77	1389078.67	3232787.97	4656.31	TL				
78	1389080.20	3232801.40	4656.31	TL				
79	1389074.73	3232803.24	4656.31	TL				
80	1389069.42	3232810.87	4656.31	TL				
81	1389069.06	3232818.87	4656.31	TL				

Point #	Northing	Easting	Elev	Description
82	1389053.99	3232807.01	4656.31	TL
83	1389051.56	3232800.33	4656.31	TL
84	1389055.46	3232791.73	4656.31	TL
85	1389050.40	3232787.24	4656.31	TL
86	1389189.30	3232688.84	4654.52	EOP
87	1389173.30	3232688.84	4654.52	EOP
88	1389173.30	3232722.84	4654.52	EOP
89	1389189.30	3232722.84	4654.52	EOP
90	1389191.37	3232818.49	4655.44	EOP
91	1389175.37	3232818.49	4655.44	EOP
92	1389175.37	3232852.49	4655.44	EOP
93	1389191.37	3232852.49	4655.44	EOP
94	1389083.06	3232703.58	4656.59	INT/PC
95	1389080.10	3232704.01	4656.63	EOP
96	1389077.75	3232704.35	4656.67	PT/PC
97	1389072.81	3232701.52	4656.77	PT/PC
98	1389071.31	3232696.64	4656.85	PT/PC
99	1389061.63	3232696.98	4657.40	PT/PC/GB
100	1389076.16	3232729.56	4658.81	PT/MP EOP
101	1389080.61	3232731.87	4658.81	MP EOP

Point #	Northing	Easting	Elev	Description
102	1389077.31	3232733.34	4658.86	MO EOP/TSB
103	1389043.73	3232731.89	4654.70	LP
104	1389044.94	3232762.57	4654.70	LP
105	1389044.24	3232800.65	4654.50	LP
106	1389050.06	3232837.92	4655.20	LP
107	1389078.83	3232911.46	4660.20	HP
108	1389034.77	3232944.92	4657.83	HP
109	1389059.85	3232647.93	4659.20	HP
110	1389104.44	3232594.13	4654.99	EOP
111	1389070.79	3232749.23	4655.64	FG PLAY
112	1389054.75	3232748.37	4655.64	FG PLAY
113	1389046.00	3232780.13	4655.64	FG PLAY
114	1389058.13	3232814.89	4655.64	FG PLAY
115	1389069.47	3232804.74	4655.64	FG PLAY
116	1389098.04	3232787.31	4655.75	GB
117	1389698.54	3232923.74	4659.06	EX CONC
118	1389695.04	3232923.78	4658.80	PC
119	1389686.66	3232926.59	4653.97	PT/PC
120	1389618.45	3232950.85	4656.41	PT/PC
121	1389483.58	3232950.99	4652.29	PT/PC

		Point	Table	
Point #	Northing	Easting	Elev	Description
122	1389326.58	3232952.86	4651.94	PT/PC
123	1389183.15	3232955.53	4652.32	PT/PC
124	1389099.06	3232956.87	4652.54	PT/PC
125	1389010.97	3232963.64	4652.85	PT/PC
126	1388857.22	3232962.53	4653.22	PT/PC
127	1388725.04	3232961.58	4653.41	PT/PC
128	1388652.73	3232963.25	4657.71	PT/PC
129	1388544.74	3232955.97	4657.87	PT/PC
130	1388521.54	3232930.50	4657.59	PT/PC
131	1388519.56	3232794.65	4656.68	PT/PC
132	1388515.45	3232772.05	4656.53	PT
133	1388502.33	3232529.48	4655.43	EX CONC
152	1389063.94	3232744.38	4656.31	TL/BEGIN STREAM BED
153	1389079.05	3232750.27	4656.31	TL/BEGIN STREAM BED
154	1389059.01	3232763.50	4656.31	TL
155	1389054.63	3232771.23	4656.31	TL
156	1389027.46	3232758.93	4655.31	PT/PC
157	1389048.41	3232589.66	4654.88	EOP
158	1389051.61	3232596.85	4655.02	EOP
159	1389056.18	3232594.46	4654.92	EOP

		Po	oint Table	
Point #	Northing	Easting	Elev	Description
160	1389132.48	3232952.04	4656.33	EOP
161	1389126.25	3232943.51	4656.21	EOP
162	1389121.86	3232946.22	4656.31	EOP
163	1389126.15	3232948.07	4656.30	CP BIKE RACK
164	1389052.23	3232592.20	4654.90	CP BIKE RACK
165	1389107.16	3232931.27		CP TRASH RECEPTACLE
166	1389040.10	3232851.99		CP TRASH RECEPTACLE
167	1389038.04	3232694.53		CP TRASH RECEPTACLE
168	1389129.21	3232609.28		CP TRASH RECEPTACLE
169	1389176.57	3232691.93		CP TRASH RECEPTACLE
170	1389178.63	3232849.39		CP TRASH RECEPTACLE
171	1388509.86	3232756.50	4656.49	PC
172	1388505.28	3232731.27	4656.33	PT
500	1387288.00	3233074.05	4658.32	BENCHMARK BM GREELEY4
502	1389776.13	3232928.24	4658.19	CP POOL-190166
514	1389669.06	3232449.28	4655.02	CP-MAG504
516	1389038.78	3232522.73	4653.82	CP SOCCER-190166
518	1388330.40	3232461.74	4658.06	CP BALSAM-190166
520	1388356.58	3232993.32	4659.34	CP DITCH-190166
522	1388505.03	3232832.13	4656.95	CP BLDG-190166

	Cı	ırve Table			Cı	ırve Table			C	urve Table			Cı	ırve Table	
Curve #	Length	Radius	Delta	Curve #	Length	Radius	Delta	Curve #	Length	Radius	Delta	Curve #	Length	Radius	Delta
C1	35.28	69.17	029° 13' 19.79"	C23	19.35	15.99	069° 18' 18.48"	C44	16.18	13.26	069° 56' 47.57"	C65	37.66	26.00	082° 59' 14.07"
C2	37.00	28.00	075° 42' 34.27"	C24	7.11	15.12	026° 57' 11.92"	C45	11.07	8.09	078° 22' 11.89"	C66	23.07	70.00	018° 53' 06.46"
C3	11.93	54.00	012° 39' 14.64"	C25	12.03	33.54	020° 32' 44.02"	C46	5.98	9.35	036° 40' 53.39"	C67	84.41	49.19	098° 18' 54.47"
C4	15.65	69.17	012° 57' 56.18"	C26	27.30	23.37	066° 56' 19.30"	C47	11.64	11.16	059° 44' 52.19"	C68	84.41	49.19	098° 18' 54.47"
C5	96.14	72.98	075° 28' 47.70"	C27	26.10	49.86	029° 59' 45.23"	C48	13.46	19.87	038° 48' 18.66"	C69	19.00	37.79	028° 48' 03.94"
C6	44.77	54.00	047° 29' 59.84"	C28	4.58	57.21	004° 34' 56.26"	C49	22.70	29.63	043° 53' 58.39"	C70	27.64	46.00	034° 25' 50.61"
C7	37.17	28.00	076° 03' 19.61"	C29	46.80	17.46	153° 34' 00.26"	C50	10.75	16.40	037° 34' 33.31"	C71	18.55	39.38	026° 59' 41.43"
C8	35.51	69.17	029° 24' 58.12"	C30	18.27	15.31	068° 23' 39.68"	C51	4.37	25.36	009° 52' 20.60"	C72	17.15	18.72	052° 28' 43.14"
C9	56.69	54.00	060° 09' 14.49"	C31	18.28	20.80	050° 20' 57.66"	C52	22.48	27.01	047° 40' 34.17"	C73	6.10	7.17	048° 44' 38.47"
C10	15.73	69.17	013° 01' 37.66"	C32	7.49	5.57	077° 04' 07.78"	C53	7.98	17.81	025° 41' 02.21"	C74	6.94	2.50	159° 07' 08.52"
C11	14.46	40.00	020° 42' 59.82"	C33	19.06	12.43	087° 48' 04.33"	C54	8.97	15.11	033° 59' 30.47"	C75	22.15	21.04	060° 19' 14.66"
C13	49.41	64.00	044° 14' 04.01"	C34	18.10	10.80	096° 03' 06.25"	C55	73.33	132.00	031° 49' 52.13"	C76	16.16	10.00	092° 34' 23.98"
C14	15.88	64.00	014° 13' 04.27"	C35	28.83	46.60	035° 26' 36.52"	C56	134.95	1072.45	007° 12' 35.58"	C77	2.29	1.00	131° 10' 33.46"
C15	54.81	147.85	021° 14' 18.39"	C36	50.59	75.00	038° 39' 04.55"	C57	157.15	1066.00	008° 26' 48.18"	C78	7.09	15.46	026° 15' 29.18"
C16	15.14	147.85	005° 52' 02.95"	C37	24.27	46.60	029° 50' 09.18"	C58	143.57	1071.96	007° 40' 25.02"	C79	4.21	5.00	048° 16' 42.51"
C17	36.06	147.85	013° 58' 27.73"	C38	32.46	171.79	010° 49' 34.74"	C59	84.16	654.08	007° 22' 19.60"	C80	4.63	3.00	088° 30' 29.01"
C18	61.82	65.55	054° 01' 51.40"	C39	11.19	69.99	009° 09' 35.51"	C60	88.34	12080.01	000° 25' 08.46"	C81	4.70	3.01	089° 28' 29.19"
C19	6.14	4.62	076° 12' 49.31"	C40	8.58	10.48	046° 55' 20.91"	C61	153.92	960.00	009° 11' 11.30"	C82	2.28	1.00	130° 52' 08.24"
C20	5.12	21.56	013° 36' 11.96"	C41	16.82	12.97	074° 18' 04.12"	C62	132.33	825.90	009° 10' 48.98"	C83	2.28	1.00	130° 52' 08.24"
C21	13.95	4.89	163° 26' 06.75"	C42	13.33	19.86	038° 28' 32.58"	C63	72.35	726.00	005° 42' 35.76"	C84	25.76	78.00	018° 55' 18.50"
C22	37.39	35.39	060° 31' 56.22"	C43	10.18	6.24	093° 29' 53.99"	C64	108.26	1335.91	004° 38' 36.10"				

	Line	Table		Line	Table
Line#	Length	Direction	Line #	Length	Direction
L3	16.00	N00° 00' 00.00"E	L23	3.50	S00° 42' 38.27'
L4	30.21	N90° 00' 00.00"E	L24	7.35	N10° 21' 17.00'
L5	3.79	N90° 00' 00.00"E	L25	6.76	N41° 35' 10.27'
L6	6.20	S00° 00' 00.00"E	L26	9.44	S65° 33' 59.92'
L7	9.80	S00° 00' 00.00"E	L27	7.11	N70° 00' 40.67'
L8	16.00	N00° 00' 00.00"E	L28	7.85	S88° 19' 36.46'
L9	34.00	N90° 00' 00.00"E	L29	8.18	N30° 57' 58.24'
L10	34.00	N90° 00' 00.00"E	L30	8.30	N01° 23' 03.19"
L11	16.00	S00° 00' 00.00"E	L31	8.00	N87° 26' 54.13"
L12	34.00	N90° 00' 00.00"E	L32	9.30	N55° 08' 05.18"
L13	34.00	N90° 00' 00.00"E	L33	5.77	N18° 38' 23.46"
L14	16.00	S00° 00' 00.00"E	L34	13.51	S83° 29' 26.94"
L15	34.00	N90° 00' 00.00"W	L35	9.84	N21° 30' 40.69"
L16	16.00	N00° 00' 00.00"E	L36	135.87	S89° 09' 50.66"
L17	16.00	N00° 00' 00.00"E	L37	13.34	S89° 45' 29.46"
L18	34.00	N90° 00' 00.00"E	L39	73.14	N89° 17' 29.93'
L19	16.00	S00° 00' 00.00"E	L40	25.00	N89° 17' 29.93'
L20	34.00	N90° 00' 00.00"W	L41	10.03	S43° 42' 28.30"
L21	3.00	S08° 16' 36.31"E	L42	12.31	N74° 09' 47.08"
L22	2.37	S08° 16' 36.31"E	L43	5.22	S22° 21' 12.72"

	Line	Table
Line #	Length	Direction
L44	16.22	S21° 17' 42.56"W
L45	7.23	S19° 19' 31.26"W
L46	12.94	S44° 33' 21.69"E
L47	16.68	N48° 11' 37.60"E
L48	8.89	S60° 27' 42.39"E
L49	12.02	S09° 35′ 32.46″E
L50	12.70	N88° 14' 42.10"E
L51	5.00	S22° 21' 12.72"W
L52	4.77	S67° 38' 47.28"E
L53	16.53	S70° 14' 31.91"W
L55	201.81	S89° 09' 50.40"W

POINT DESCRIPTION LEGEND

DESCRIPTION
CENTER POINT
EDGE OF PAVEMENT (INCL. CRUSHER FINES)
EXISTING CONCRETE FINISH GRADE
FINISH GRADE OF PLAY SURFACE
GRADE BREAK
HIGH POINT
INTERSECTION
LOW POINT
MIDPOINT OF LINE
POINT OF CURVATURE
POINT OF TANGENCY
TOP OF LOG BORDER
TOP OF STREAM BED EOP EX CONC FG PLAY

GB HP INT LP MP PC PT TL TSB

EAST MEMORIAL NEIGHBORHOOD PARKS POINT, I

1601 BLAKE ST, SUITE 200 DENVER, CO 80202 PH: 303-572-0200 www.MATRIXDESIGNGROUP.COM

HC03

SHEET

SHEET 11 OF 37

