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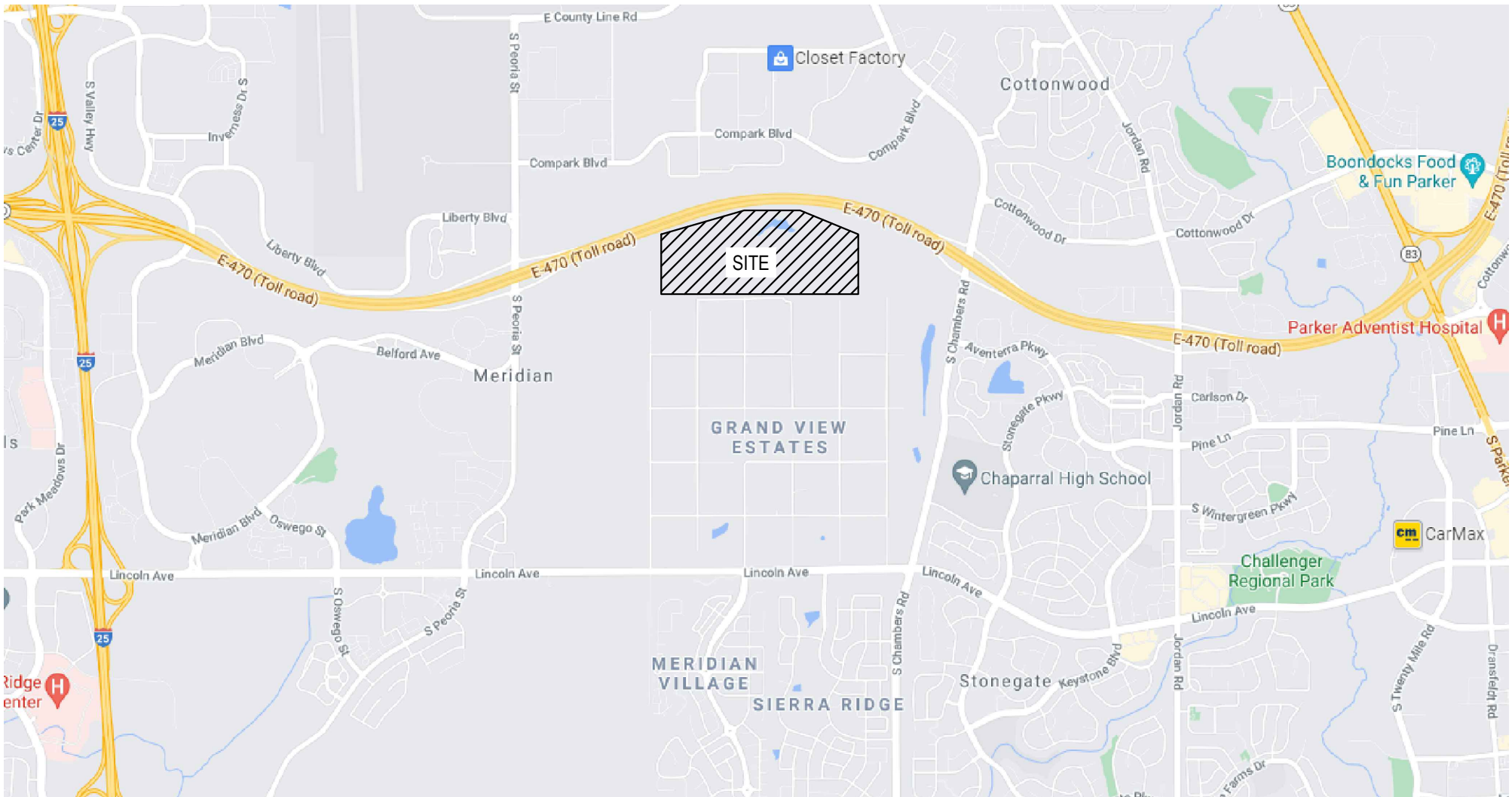
Know what's below.
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Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
1	COVER SHEET	C0.0
2	GENERAL NOTES	C0.1
3	EXISTING CONDITIONS	C1.0
4	SITE AND PAVING PLAN	C2.0
5	SIGN & STRIPING	C2.1
6	HORIZONTAL CONTROL PLAN 1	C2.2
7	HORIZONTAL CONTROL PLAN 2	C2.3
8	HORIZONTAL CONTROL PLAN 3	C2.4
9	HORIZONTAL CONTROL PLAN 4	C2.5
10	HORIZONTAL CONTROL PLAN 5	C2.6
11	OVERALL GRADING PLAN	C3.0
12	DETAIL GRADING PLAN	C3.1
13	DETAIL GRADING PLAN	C3.2
14	DETAIL GRADING PLAN	C3.3
15	DETAIL GRADING PLAN	C3.4
16	DETAIL GRADING PLAN	C3.5
17	DETAIL GRADING PLAN	C3.6
18	OVERALL UTILITY PLAN	C3.7
19	OVERALL UTILITY PLAN	C3.8
20	STRM PLAN & PROFILE	C3.9
21	STRM PLAN & PROFILE	C3.10
22	STRM PLAN & PROFILE	C3.11
23	STRM ROOF DRAINAGE PLAN	C3.12
24	STRM ROOF DRAINAGE PLAN	C3.13
25	POND - HORIZONTAL CONRTOL PLAN	C4.0
26	POND - DETAILED GRADING	C4.1
27	POND - GRADING DETAILS	C4.2
28	POND - STRM PLAN & PROFILE	C4.3
29	POND - STRM OUTLET STRUCTURE	C4.4
30	INITIAL EROSION CONTROL 1	C5.0
31	INITIAL EROSION CONTROL 2	C5.1
32	INTERIM FINAL EROSION CONTROL 1	C5.2
33	INTERIM FINAL EROSION CONTROL 2	C5.3
34	CBMP DTL 1	C5.4
35	CBMP DTL 2	C5.5
36	CBMP DTL 3	C5.6
37	CBMP DTL 4	C5.7
38	CBMP DTL 5	C5.8
39	CBMP DTL 6	C5.10
40	CBMP DTL 7	C5.9
41	CBMP DTL 8	C5.11
42	CBMP DTL 9	C5.12
43	STANDARD DETAIL	C6.0
44	STANDARD DETAIL	C6.1
45	STANDARD DETAIL	C6.3
46	STANDARD DETAIL	C6.4

PRIVATE IMPROVEMENT CONSTRUCTION PLANS FOR: COMPARK VILLAGE SOUTH

COMPARK VILLAGE SOUTH, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEING MONUMENTED AS SHOWN HEREON HAVING A BEARING OF NORTH 00°29'49" WEST, AS DETERMINED BY GPS OBSERVATION FROM NGS CONTROL POINTS IN THE COLORADO CENTRAL ZONE, STATE PLANE COORDINATE SYSTEM TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO



Vicinity Map

N.T.S.

ABBREVIATION LEGEND

TW	GRADE AT TOP OF WALL
BG	GRADE AT BOTTOM OF WALL
PC	POINT OF CURVE
PT	POINT OF TANGENT
Δ	DELTA, HORIZONTAL CURVE DIRECTION CHANGE
CL	CENTERLINE
FL	FLOWLINE
DBL	DOUBLE
C.O.	CLEAN OUT
K	RATE OF CURVATURE
AD	ABSOLUTE GRADE DIFFERENCE IN %
VC	VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE
PVT	POINT OF VERTICAL TANGENT
PI	POINT OF VERTICAL INTERSECTION
ROW	RIGHT OF WAY
PVMT	PAVEMENT
HP	HIGH POINT
LP	LOW POINT
PCR	POINT OF CURB RETURN
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
EX, EX.	EXISTING
PR, PR.	PROPOSED
ME	MATCH EXISTING
TC	BACK TOP OF CURB
FG	FINISHED GRADE
STA	STATION
EL, ELEV	ELEVATION
FF	FINISHED FLOOR
TC	TOP OF CONCRETE
B/P	BOTTOM OF PIPE
T/P	TOP OF PIPE
Ø	DIAMETER

DEVELOPER/ OWNER
CENTURY COMMUNITIES
8390 E. CRESCENT PARKWAY,
SUITE 650, GREENWOOD VILLAGE,
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CONTACT: KENNETH G. OUELLETTE, PLS

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PHONE: 303-840-9546

INTERMOUNTAIN REA
CONTACT: BROOKS KAUFMAN
PHONE: 303-688-3100

CENTURY LINK
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SOUTH METRO FIRE DISTRICT
CONTACT: MICHELLE HERIAN
PHONE: 720-488-7200

PLANNER
PCS GROUP
200 KLAMATH ST, DENVER, CO
80223
PHONE: 720-259-8248
CONTACT: PAUL SHOUKAS

ENGINEER
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COMCAST
CONTACT: KEVIN YOUNG
PHONE: 720-490-3867

XCEL ENERGY
CONTACT: MICHELLE O'NAN
PHONE: 303-329-1618

STONEGATE VILLAGE METRO DISTRICT
CONTACT: SCOTT BARNETT
PHONE: 303-898-9909

BASIS OF ELEVATION:

SOURCE BENCHMARK
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD.

SITE BENCHMARKS

- A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE.
- A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 19997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD.

PROPOSED		EXISTING		
CATV	CATV	CATV	CATV	CABLE TV LINE W/ PEDESTAL
E	E	E	E	ELECTRIC LINE W/ BOX, METER, AND LIGHT
OHE	OHE	OHE	OHE	OVERHEAD ELECTRIC WITH POLE
OHE/C	OHE/C	OHE/C	OHE/C	OVERHEAD ELECTRIC COMMUNICATIONS
UE	UE	UE	UE	UNDERGROUND ELECTRIC
FO	FO	FO	FO	FIBER OPTIC LINE W/ TRAFFIC CONTROL BOX
F	F	F	F	FIRE
G	G	G	G	GAS LINE W/ DRY UTILITY VAULT
IRR	IRR	IRR	IRR	IRRIGATION
SS	SS	SS	SS	SANITARY SEWER W/ MANHOLE
T	T	T	T	STORM SEWER FES W/ MAHNOLE, RIPRAP
OT	OT	OT	OT	TELEPHONE LINE W/ PEDESTAL
W	W	W	W	OVERHEAD TELEPHONE
T	T	T	T	WATER LINE, VALVE, FITTINGS, METER, AND HYDRANT
				UNDERDRAIN
				CURB AND GUTTER
				WHEEL STOP
				CONTOURS
				TRASH ENCLOSURE
				UNDERDRAIN W/ TYPE R INLET
				FENCE LINE
				DRAINAGE SWALE
				RIGHT-OF-WAY
				SECTION LINE
				PROPERTY LINE
				LOT LINE
				EASEMENT
				IRRIGATION CONTROL VALVE BOX
				PEDESTRIAN LIGHT
				STREET LIGHT
				TRAFFIC LIGHT
				SPOT ELEVATION
				FLOW OF WATER
				SIGN
				LOT NUMBER

SIGHT DISTANCE CERTIFICATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE PROPOSED SUBDIVISION, _____, IS DESIGNED IN ACCORDANCE WITH THE TOWN OF PARKER SIGHT DISTANCE CRITERIA AND WITH AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAY & STREETS.

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

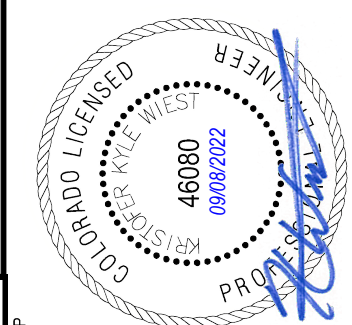
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Town of Parker, Director of Engineering
10/26/2022
Date



COMPARK VILLAGE SOUTH PRIVATE IMPROVEMENT CONSTRUCTION PLANS

COVER SHEET



DESIGN NUMBER	65120950	DATE	7/1/2022	SHEET	C0.0	1
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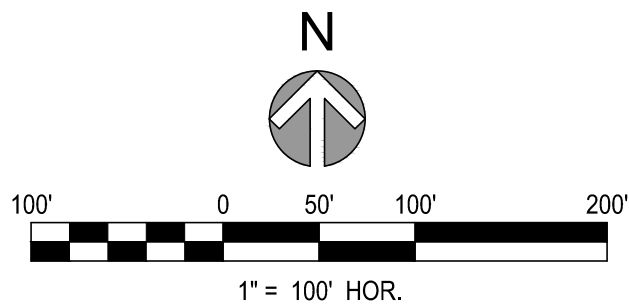
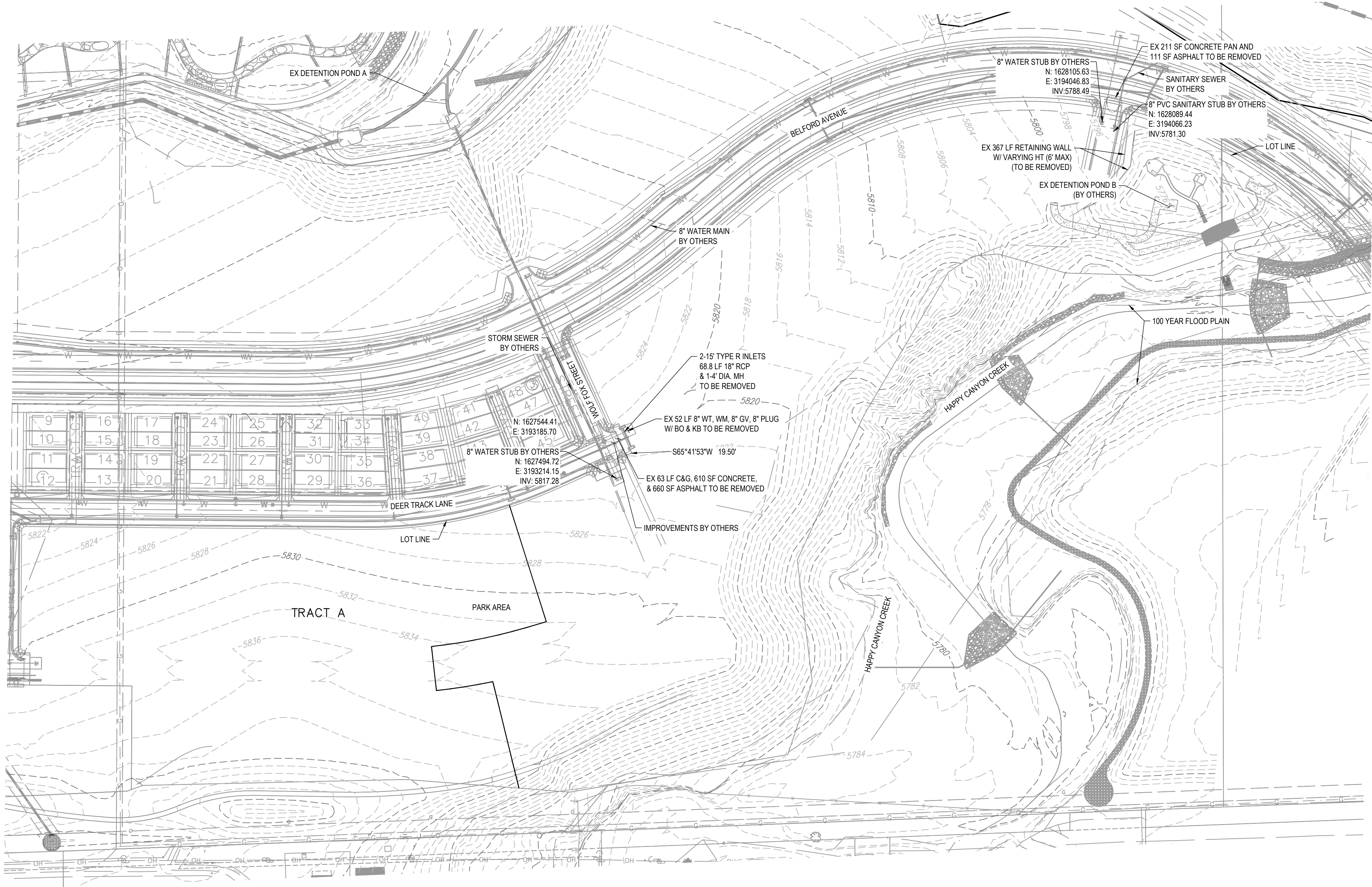
JOB NUMBER	65120950	TITLE	COMPARK VILLAGE SOUTH PRIVATE IMPROVEMENT CONSTRUCTION PLANS							
DATE	7/1/2022	PROJ. NO.	45090							
SHEET		DATE OF ISSUE	08/02/2022							
		FOR AND ON BEHALF OF MERRICK & COMPANY								
		GENERAL NOTES								
		REV / REVISION DESCRIPTION								
		DATE								
		CHND CHKD APPR								

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Call before you dig.



BEARINGS ARE ASSUMED AND ARE BASED UPON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 6, AS BEARING N87°48'59"E A DISTANCE OF 2634.09 FEET BETWEEN THE SOUTH QUARTER CORNER OF SAID SECTION 6, BEING A FOUND 3-1/4" ALUMINUM CAP, FLUSH WITH THE SURFACE AND STAMPED: PLS 38026 AND THE SOUTHEAST CORNER OF SAID SECTION 6, BEING A FOUND 3-1/4" ALUMINUM CAP, FLUSH WITH THE SURFACE AND STAMPED PLS 12405.

- NOTES
- EXISTING FEATURES SHOWN ARE BASED ON INFORMATION PROVIDED BY MANHARD CONSULTING, LLC. SITE IS ACTIVELY UNDER CONSTRUCTION DURING TIME OF DESIGN. CONTRACTOR TO FIELD VERIFY FEATURES DEPICTED PRIOR TO COMMENCING CONSTRUCTION.

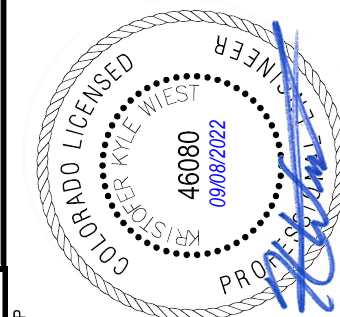
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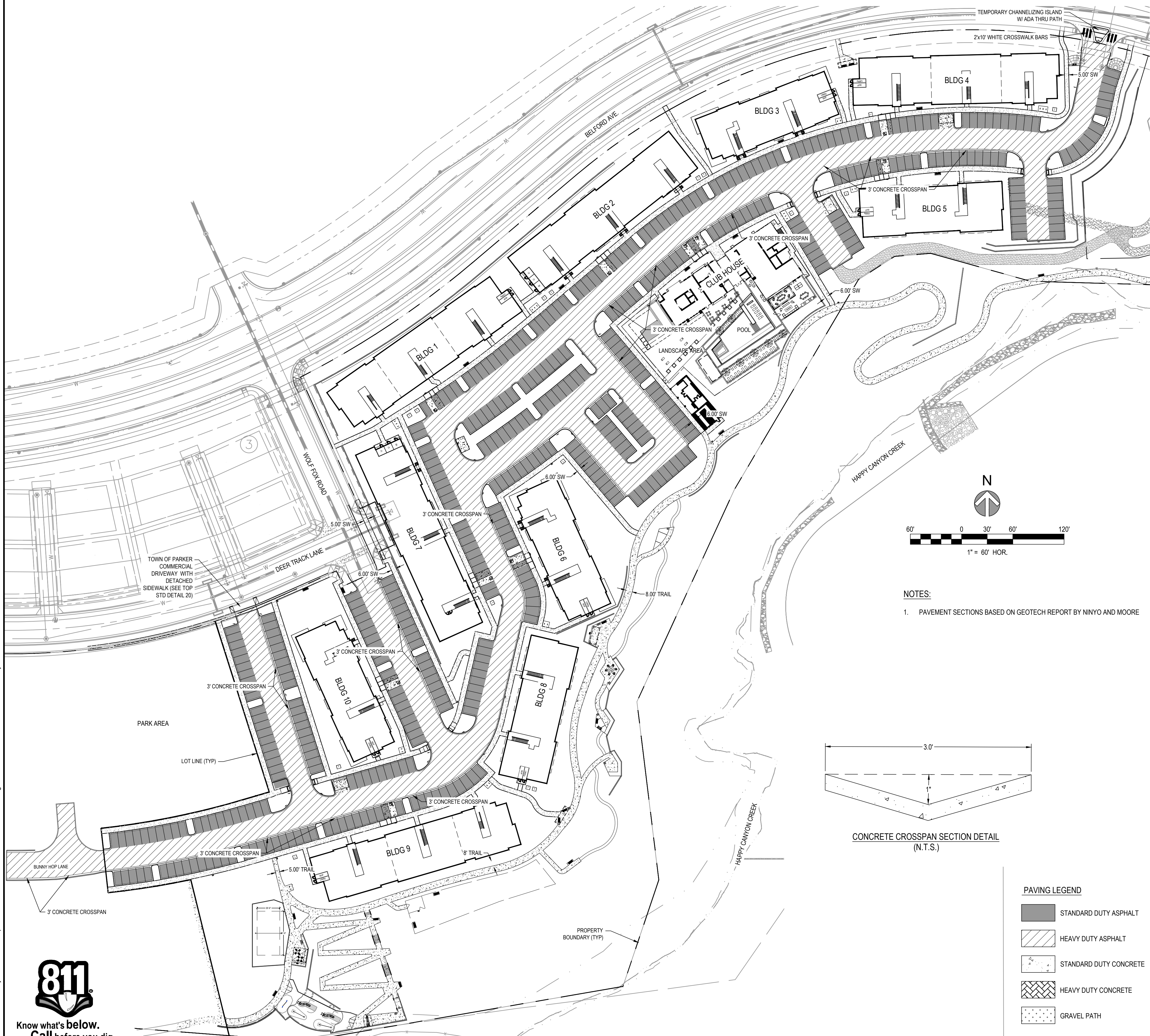
Town of Parker, Director of Engineering
10/26/2022
Date



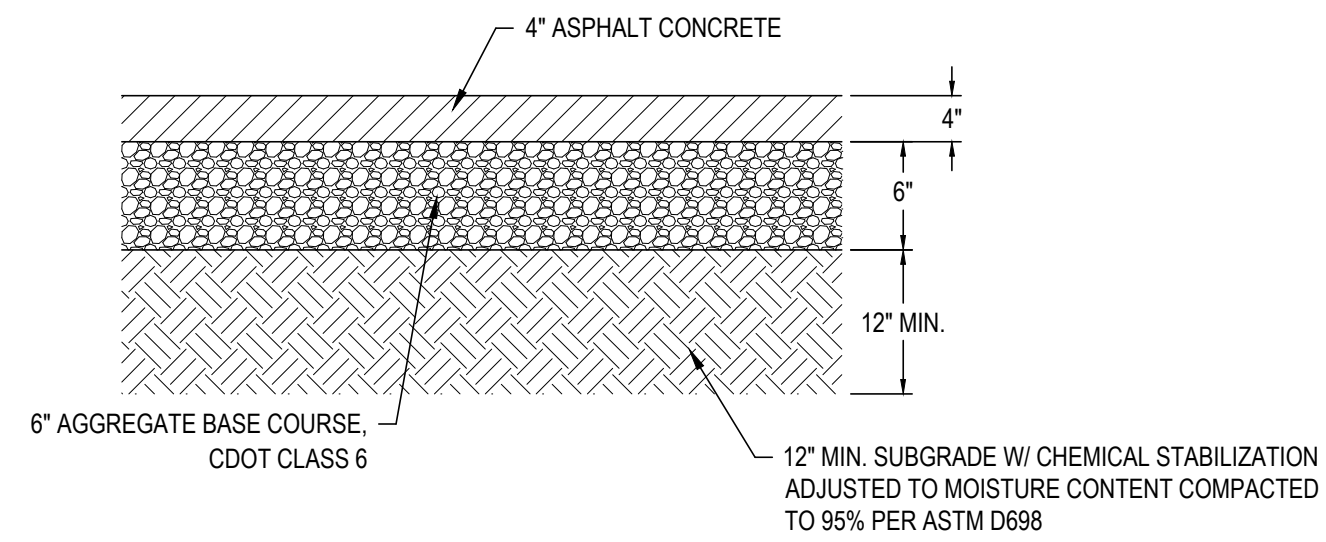
COMPARK VILLAGE SOUTH
PRIVATE IMPROVEMENT
CONSTRUCTION PLANS
EXISTING CONDITIONS



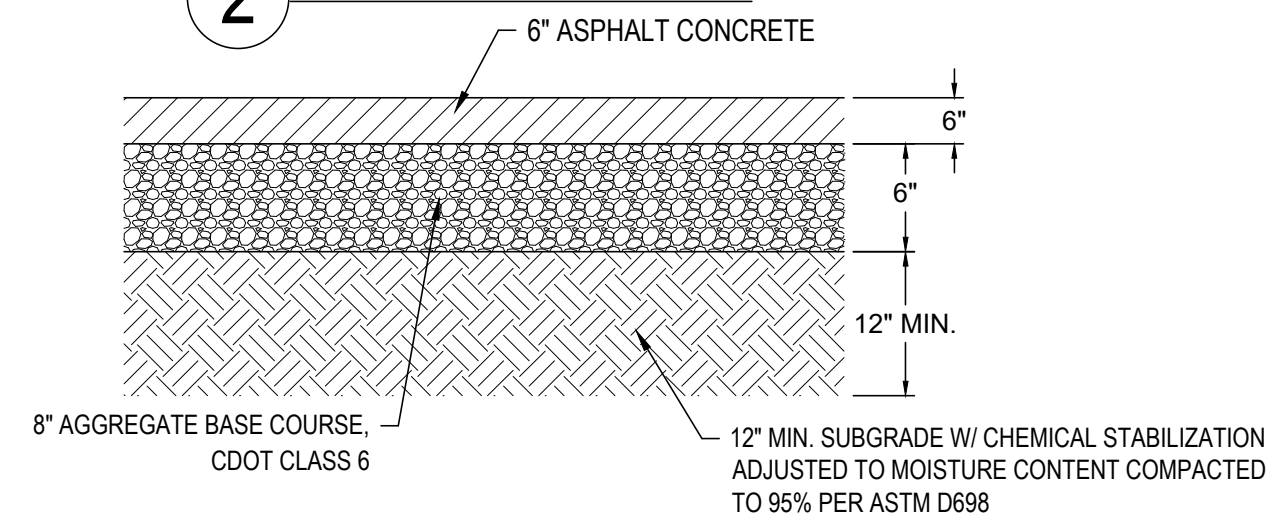
DATE	REVISION DESCRIPTION	DATE	CHND/CHKD/APPR
6/5/2020			
7/1/2022			
C10			
3			



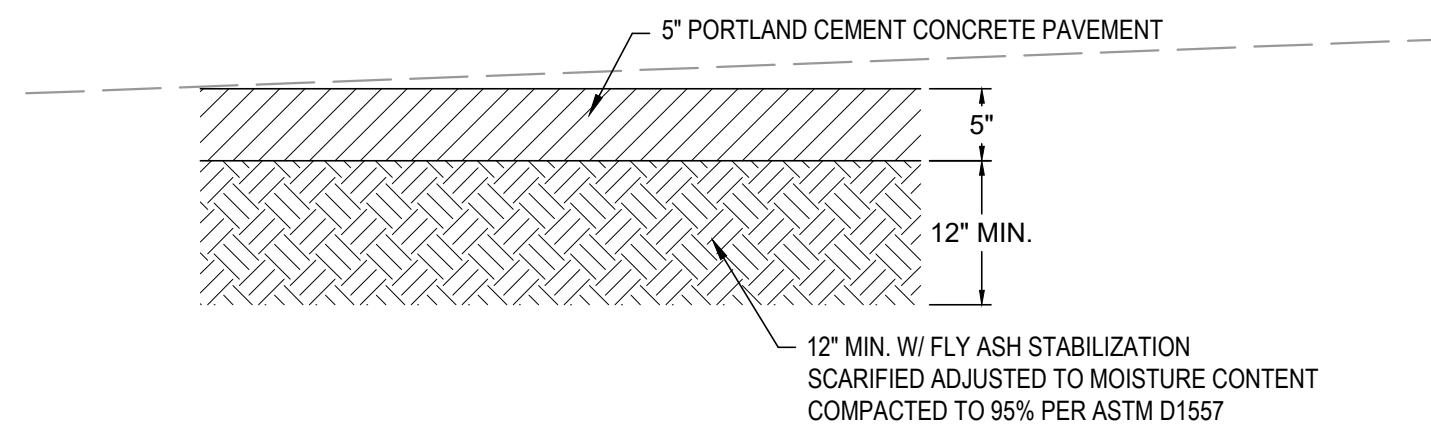
1 STANDARD DUTY ASPHALT



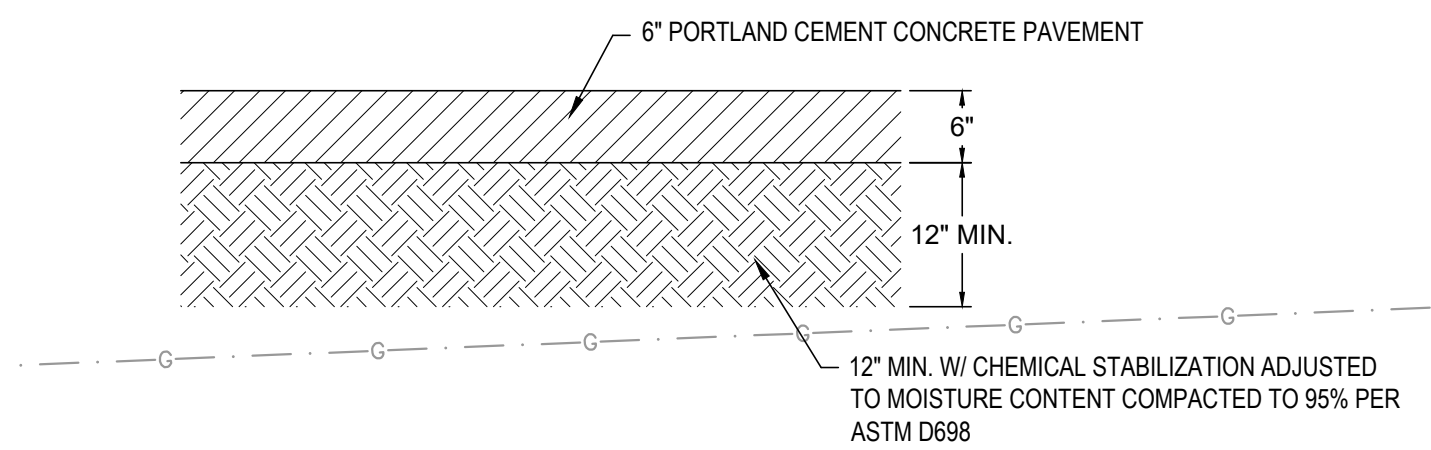
2 HEAVY DUTY ASPHALT
— 6" ASPHALT CO.



3 STANDARD DUTY CONCRETE



4 HEAVY DUTY CONCRETE



PAVING LEGEND

- | | |
|---|------------------------|
|  | STANDARD DUTY ASPHALT |
|  | HEAVY DUTY ASPHALT |
|  | STANDARD DUTY CONCRETE |
|  | HEAVY DUTY CONCRETE |
|  | GRAVEL PATH |

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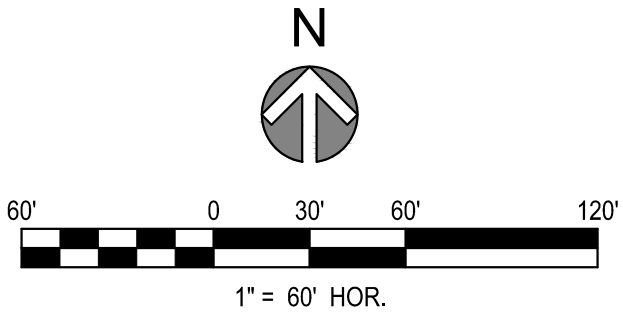
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Town of Parker, Director of Engineering

10/26/2022
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NOTES

1. ALL DIMENSIONS ARE FROM FLOWLINE UNLESS SPECIFIED OTHERWISE.
2. SIGNS SHOWN ON PLAN ARE SYMBOLIC. ALL SIGN MATERIALS, DIMENSIONS, INSTALLATION, PLACEMENT AND, OFFSET FROM CURB SHALL CONFORM TO STANDARDS FROM MUTCD 2009 ED. WITH MOST RECENT REVISIONS.
3. ALL PAVEMENT MARKING SHALL BE SOLID 4" WIDE TRAFFIC WHITE PAINTING. ALL STOP BAR PAVEMENT MARKINGS SHALL BE A 18" WIDE SOLID WHITE PAINTING.
4. CROSS WALK BARS SHALL BE 1.5' x 6".
5. ACCESSIBLE LOADING ZONES TO BE STRIPED WITH 4" WIDE WHITE DIAGONAL STIPE @ 48" O.C.

LEGEND

1	R1-1 (30" x 30")	
2	R7-8 (12" x 18")	
3	R7-8 P (12" x 9")	
4	R7-1 (SP) (12" x 18")	
5	R2-1 (SP) (12" x 18")	
6	R5-4 (SP) (24" x 30")	

PAVEMENT MARKING OF
INTERNATIONAL SYMBOL OF
ACCESSIBILITY

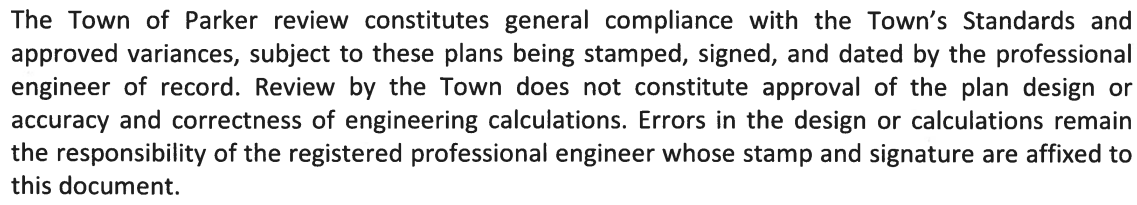
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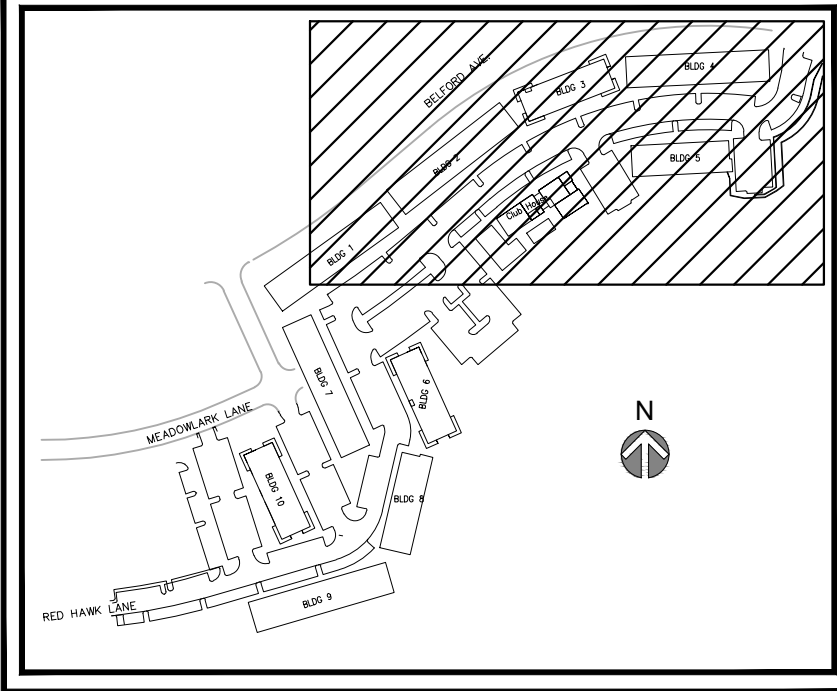
Town of Parker, Director of Engineering

10/26/2022
Date

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 10/26/2022
Town of Parker, Director of Engineering Date



HORIZONTAL CONTROL PLAN 1

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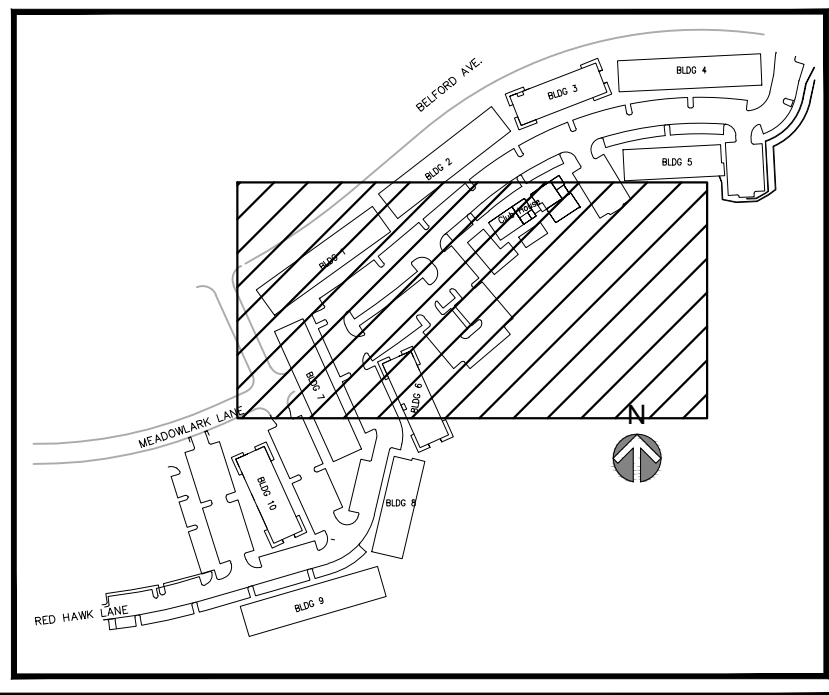
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MATCH LINE SEE SHEET C2.4

1. ALL LINE AND CURVE LABELS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. NORTHINGS AND EASTINGS TRUNCATED. ALL NORTHINGS START N:1628XX
ALL EASTINGS START E:319XXX.



COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

HORIZONTAL CONTROL PLAN 2

33

2

CENTURY
— LIVING —

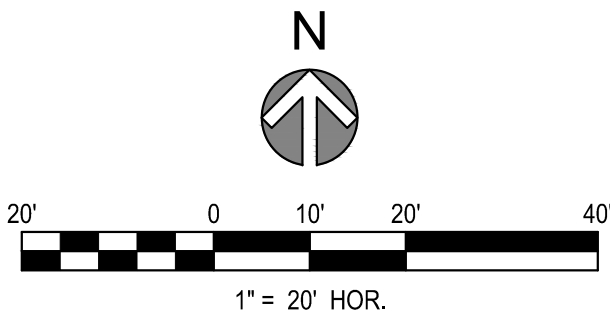
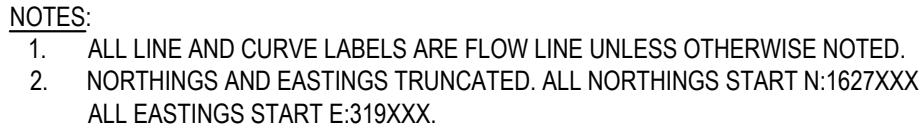

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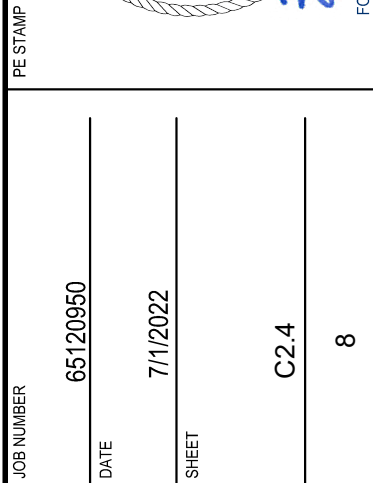


PARK AREA



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 10/26/2022
Town of Parker, Director of Engineering Date



HORIZONTAL CONTROL PLAN 3



CENTURY
— LIVING —

[illegible]

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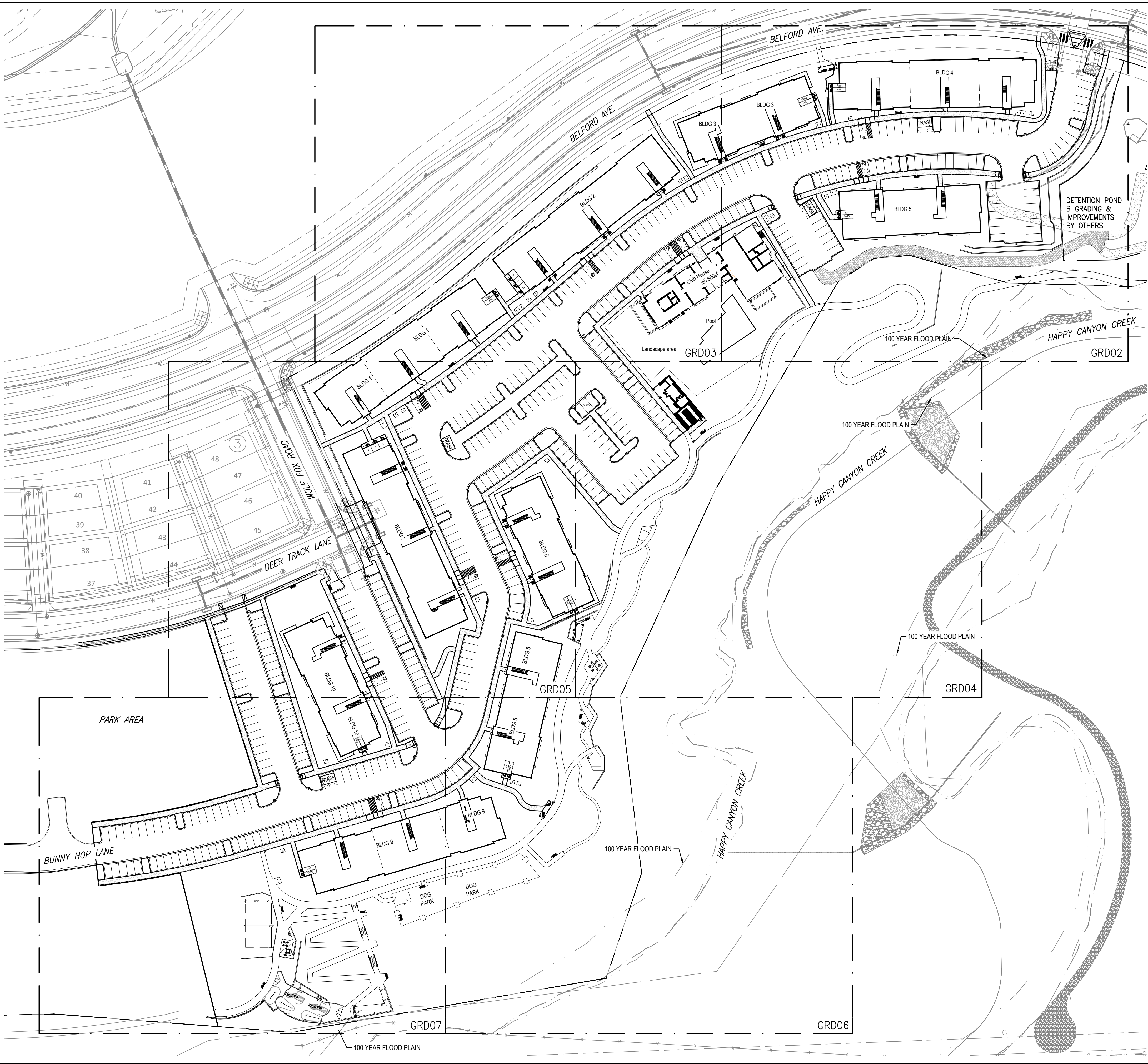
CURVE TABLE							
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS	NORTHING	EASTING
C: 467	4.58'	87° 30' 29"	3.00'	4.15	N22° 37' 23"W	1628033.70	3194058.70
C: 468	3.26'	2° 49' 45"	66.00'	3.26	N19° 42' 59"E	1628037.53	3194057.10
C: 469	4.58'	87° 30' 29"	3.00'	4.15	N62° 03' 21"E	1628040.59	3194058.20
C: 470	11.18'	7° 48' 47"	82.00'	11.17	N19° 42' 59"E	1628028.46	3194070.67
C: 471	3.74'	2° 33' 06"	84.00'	3.74	N13° 12' 17"E	1628040.31	3194076.87
C: 473	2.31'	6° 01' 01"	22.00'	2.31	N14° 56' 14"E	1628070.28	3194083.29
C: 479	4.71'	90° 00' 00"	3.00'	4.24	S27° 03' 15"E	1628100.24	3194073.94
C: 480	2.10'	6° 01' 01"	20.00'	2.10	N14° 56' 14"E	1628111.36	3194077.54
C: 481	4.29'	81° 58' 53"	3.00'	3.94	N51° 59' 29"W	1627993.91	3193980.96
C: 483	3.26'	0° 19' 31"	574.00'	3.26	N84° 21' 49"E	1627997.40	3193857.57
C: 484	4.73'	90° 18' 04"	3.00'	4.25	S50° 19' 24"E	1627997.72	3193860.81
C: 486	90.00'	9° 16' 26"	556.00'	89.90	N89° 27' 52"E	1627980.07	3193865.44
C: 488	5.00'	95° 32' 52"	3.00'	4.44	N51° 52' 31"E	1627995.79	3193956.40
C: 489	27.01'	77° 22' 10"	20.00'	25.00	S41° 39' 58"E	1627998.54	3193959.89
C: 491	4.71'	90° 00' 00"	3.00'	4.24	S42° 01' 07"W	1627971.39	3193976.95
C: 494	4.73'	90° 16' 59"	3.00'	4.25	N39° 02' 30"E	1627994.09	3193854.89
C: 495	3.66'	0° 21' 56"	574.00'	3.66	N72° 48' 09"E	1627974.13	3193744.10
C: 496	4.73'	90° 18' 04"	3.00'	4.25	S61° 51' 51"E	1627975.21	3193747.60
C: 498	103.50'	10° 39' 55"	556.00'	103.35	N78° 37' 08"E	1627958.85	3193755.66
C: 499	36.22'	103° 46' 04"	20.00'	31.47	N20° 44' 09"E	1627944.70	3193732.96
C: 500	4.71'	90° 00' 00"	3.00'	4.24	N76° 08' 54"W	1627940.13	3193739.22
C: 501	4.71'	90° 00' 00"	3.00'	4.24	S13° 51' 11"W	1627878.51	3193776.47
C: 502	4.71'	90° 00' 04"	3.00'	4.24	N76° 08' 52"W	1627860.95	3193753.20
C: 503	4.71'	90° 00' 00"	3.00'	4.24	S85° 11' 27"E	1627595.02	3193510.91
C: 504	4.71'	90° 00' 00"	3.00'	4.24	N4° 48' 33"E	1627652.75	3193583.89
C: 505	4.71'	90° 00' 00"	3.00'	4.24	N85° 11' 27"W	1627720.83	3193534.31
C: 506	4.71'	90° 00' 00"	3.00'	4.24	N4° 48' 33"E	1627723.47	3193528.14
C: 507	4.89'	93° 22' 20"	3.00'	4.37	N83° 30' 17"W	1627782.72	3193482.06
C: 508	31.87'	91° 18' 07"	20.00'	28.60	N8° 49' 57"E	1627783.21	3193477.72
C: 509	4.47'	85° 19' 33"	3.00'	4.07	S82° 51' 13"E	1627811.48	3193482.11
C: 510	4.71'	90° 00' 00"	3.00'	4.24	N4° 48' 33"E	1627840.06	3193520.48
C: 511	4.71'	90° 00' 00"	3.00'	4.24	S85° 11' 27"E	1627846.22	3193523.13
C: 512	62.18'	6° 24' 29"	556.00'	62.15	N53° 00' 48"E	1627851.06	3193556.76
C: 520	4.71'	90° 00' 00"	3.00'	4.24	N4° 48' 33"E	1627661.80	3193450.49
C: 521	15.33'	87° 48' 53"	10.00'	13.87	N84° 05' 53"W	1627670.56	3193447.02
C: 523	5.71'	109° 02' 25"	3.00'	4.89	S87° 50' 57"E	1627608.38	3193346.18
C: 525	87.89'	3° 54' 14"	1290.00'	87.88	N54° 43' 09"E	1627596.44	3193358.80
C: 526	4.65'	88° 47' 12"	3.00'	4.20	S8° 13' 36"W	1627663.51	3193422.25
C: 527	101.31'	4° 33' 48"	1272.00'	101.28	S54° 16' 36"W	1627671.99	3193433.22
C: 528	4.71'	90° 00' 00"	3.00'	4.24	N69° 18' 07"W	1627581.78	3193349.87
C: 529	28.23'	80° 51' 50"	20.00'	25.94	N16° 07' 48"E	1627587.93	3193343.80
C: 531	4.71'	90° 00' 00"	3.00'	4.24	S20° 41' 53"W	1627532.56	3193372.09
C: 533	4.71'	90° 00' 00"	3.00'	4.24	S69° 18' 07"E	1627525.86	3193371.83
C: 534	5.18'	0° 17' 55"	993.00'	5.18	N83° 36' 56"E	1627156.14	3192902.02
C: 535	4.70'	89° 49' 39"	3.00'	4.24	S51° 37' 12"E	1627156.71	3192907.17
C: 537	45.82'	2° 35' 47"	1011.00'	45.81	N81° 59' 44"E	1627139.18	3192912.24
C: 539	4.70'	89° 49' 39"	3.00'	4.24	N35° 36' 40"E	1627160.37	3192955.18
C: 540	3.02'	0° 10' 27"	993.00'	3.02	N80° 26' 15"E	1627163.81	3192957.65
C: 541	4.70'	89° 49' 39"	3.00'	4.24	S54° 44' 09"E	1627164.31	3192960.62
C: 543	91.63'	5° 11' 35"	1011.00'	91.60	N77° 34' 53"E	1627147.08	3192966.64

CURVE TABLE							
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS	NORTHING	EASTING
C: 545	4.70'	89° 49' 39"	3.00'	4.24	N29° 53' 55"E	1627181.27	3193052.21
C: 546	3.02'	0° 10' 27"	993.00'	3.02	N74° 43' 31"E	1627184.95	3193054.32
C: 547	4.70'	89° 49' 39"	3.00'	4.24	S60° 26' 53"E	1627185.74	3193057.24
C: 549	12.67'	0° 43' 04"	1011.00'	12.67	N74° 06' 24"E	1627169.19	3193064.94
C: 552	4.71'	90° 00' 00"	3.00'	4.24	N28° 44' 52"E	1627208.77	3193147.38
C: 554	4.71'	90° 00' 00"	3.00'	4.24	S61° 15' 08"E	1627213.33	3193152.30
C: 559	4.71'	90° 00' 00"	3.00'	4.24	N28° 44' 52"E	1627238.28	3193248.60
C: 561	4.71'	90° 00' 00"	3.00'	4.24	S61° 15' 08"E	1627242.84	3193253.52
C: 564	71.13'	31° 06' 35"	131.00'	70.26	N58° 11' 34"E	1627234.41	3193288.94
C: 566	4.63'	88° 31' 05"	3.00'	4.19	N3° 06' 11"W	1627281.63	3193337.59
C: 567	55.29'	28° 02' 00"	113.00'	54.74	N27° 08' 22"E	1627285.81	3193337.36
C: 569	4.71'	90° 00' 00"	3.00'	4.24	N58° 07' 22"E	1627446.48	3193388.43
C: 572	41.80'	37° 25' 29"	64.00'	41.06	N5° 35' 22"W	1627455.32	3193408.97
C: 574	90.00'	4° 28' 34"	1152.00'	89.97	N52° 17' 30"E	1627736.06	3193318.50
C: 576	4.72'	90° 08' 50"	3.00'	4.25	S85° 01' 12"E	1627779.60	3193399.31
C: 577	1.98'	0° 05' 50"	1170.00'	1.98	N49° 51' 28"E	1627779.23	3193403.54
C: 583	4.71'	90° 00' 00"	3.00'	4.24	S85° 11' 27"E	1627820.24	3193447.44
C: 585	4.71'	90° 00' 00"	3.00'	4.24	N4° 48' 33"E	1627821.82	3193453.96
C: 589	4.70'	89° 42' 54"	3.00'	4.23	S85° 05' 09"E	1627886.71	3193526.13
C: 590	3.03'	0° 17' 21"	600.00'	3.03	N50° 12' 05"E	1627886.34	3193530.35
C: 591	4.70'	89° 42' 54"	3.00'	4.23	N5° 29' 19"E	1627888.28	3193532.67
C: 593	92.68'	8° 35' 34"	618.00'	92.60	N54° 55' 39"E	1627904.10	3193523.56
C: 595	4.70'	89° 42' 54"	3.00'	4.23	S75° 38' 01"E	1627944.41	3193607.02
C: 596	3.03'	0° 17' 21"	600.00'	3.03	N59° 39' 13"E	1627943.36	3193611.12
C: 597	4.70'	89° 42' 54"	3.00'	4.23	N14° 56' 27"E	1627944.89	3193613.74
C: 599	92.70'	8° 35' 38"	618.00'	92.61	N64° 22' 49"E	1627961.99	3193607.34
C: 601	4.70'	89° 42' 54"	3.00'	4.23	S66° 10' 48"E	1627988.05	3193696.30
C: 602	3.03'	0° 17' 21"	600.00'	3.03	N69° 06' 25"E	1627986.34	3193700.18
C: 603	4.70'	89° 42' 54"	3.00'	4.23	N24° 23' 39"E	1627987.42	3193703.01
C: 605	92.70'	8° 35' 38"	618.00'	92.61	N73° 50' 02"E	1628005.34	3193699.51
C: 607	4.70'	89° 42' 54"	3.00'	4.23	S56° 43' 36"E	1628016.44	3193791.54
C: 608	3.03'	0° 17' 21"	600.00'	3.03	N78° 33' 38"E	1628014.11	3193795.08
C: 609	4.70'	89° 42' 54"	3.00'	4.23	N33° 50' 52"E	1628014.72	3193798.05
C: 611	97.85'	9° 04' 17"	618.00'	97.74	N83° 31' 33"E	1628032.96	3193797.54
C: 613	4.80'	91° 34' 14"	3.00'	4.30	S45° 50' 43"E	1628029.08	3193895.17
C: 614	3.03'	0° 17' 21"	600.00'	3.03	N88° 29' 29"E	1628026.09	3193898.25
C: 615	4.64'	88° 36' 40"	3.00'	4.19	N44° 19' 24"E	1628026.17	3193901.28
C: 617	92.70'	8° 35' 38"	618.00'	92.61	S86° 46' 55"E	1628044.23	3193903.93
C: 619	5.26'	100° 31' 29"	3.00'	4.61	S42° 44' 53"E	1628024.76	3193994.51
C: 620	52.40'	75° 03' 38"	40.00'	48.73	N49° 27' 33"E	1628021.37	3193997.64
C: 622	1.99'	5° 42' 38"	20.00'	1.99	N9° 04' 25"E	1628080.40	3194040.45
C: 624	2.10'	6° 01' 01"	20.00'	2.10	N8° 55' 13"E	1628118.34	3194044.49
C: 626	4.72'	90° 08' 50"	3.00'	4.25	N9° 36' 12"E	1627719.66	3193326.49
C: 627	3.12'	0° 09' 11"	1170.00'	3.12	N54° 45' 12"E	1627717.86	3193323.94
C: 628	50.88'	2° 31' 49"	1152.00'	50.87	N56° 14' 33"E	1627702.60	3193268.85
C: 629	4.75'	0° 13' 57"	1169.76'	4.75	N57° 45' 33"E	1627683.61	3193272.05
C: 630	4.34'	90° 08' 50"	2.76'	3.90	N12° 34' 09"E	1627686.14	3193276.06
C: 631	4.72'	90° 08' 52"	3.00'	4.25	S80° 05' 46"E	1627718.59	3193319.75
C: 632	31.57'	90° 25' 53"	20.00'	28.39	N64° 58' 58"E	1627318.75	3193308.43
C: 633	4.10'	2° 42' 00"	87.00'	4.10	N18° 25' 01"E	1627330.75	3193334.15

CURVE TABLE							
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS	NORTHING	EASTING
C: 634	4.92'	93° 56' 39"	3.00'	4.39	N29° 54' 18"W	1627334.64	3193335.45
C: 638	4.71'	90° 00' 00"	3.00'	4.24	N58° 07' 22"E	1627426.05	3193353.89
C: 640	13.38'	38° 20' 31"	20.00'	13.14	N6° 02' 54"W	1627465.31	3193366.12
C: 641	4.66'	89° 04' 57"	3.00'	4.21	N69° 45' 38"W	1627478.37	3193364.74
C: 645	4.71'	90° 00' 00"	3.00'	4.24	N20° 41' 53"E	1627567.33	3193321.28
C: 647	4.71'	90° 00' 00"	3.00'	4.24	N69° 18' 07"W	1627574.03	3193321.55
C: 651	4.71'	90° 00' 00"	3.00'	4.24	N20° 41' 53"E	1627657.55	3193280.54
C: 653	4.71'	90° 00' 00"	3.00'	4.24	N69° 18' 07"W	1627664.26	3193280.80
C: 656	4.73'	13° 33' 06"	20.00'	4.72	S17° 31' 34"E	1627515.29	3193217.50
C: 657	5.42'	103° 33' 06"	3.00'	4.71	S62° 31' 34"E	1627500.10	3193220.95
C: 658	4.71'	90° 00' 00"	3.00'	4.24	S20° 41' 53"W	1627415.57	3193261.43
C: 659	4.71'	90° 00' 00"	3.00'	4.24	S69° 18' 07"E	1627408.86	3193261.17
C: 660	4.71'	90° 00' 00"	3.00'	4.24	S20° 41' 53"W	1627341.74	3193294.77
C: 661	7.38'	21° 08' 07"	20.00'	7.34	S34° 52' 10"E	1627329.29	3193297.10
C: 662	4.71'	90° 00' 00"	3.00'	4.24	N20° 41' 53"E	1627394.20	3193235.97
C: 663	4.71'	90° 00' 00"	3.00'	4.24	N69° 18' 07"W	1627400.90	3193236.24
C: 664	5.42'	103° 33' 06"	3.00'	4.71	N13° 55' 20"E	1627484.09	3193194.49
C: 665	4.73'	13° 33' 06"	20.00'	4.72	N31° 04' 40"W	1627497.26	3193188.95
C: 666	4.71'	90° 00' 00"	3.00'	4.24	N69° 18' 07"W	1627306.11	3193279.04
C: 668	4.71'	90° 00' 00"	3.00'	4.24	S27° 27' 17"W	1627269.70	3193143.40
C: 669	30.44'	87° 13' 04"	20.00'	27.59	S61° 09' 15"E	1627258.31	3193143.85
C: 670	4.79'	91° 29' 21"	3.00'	4.30	N29° 29' 33"E	1627245.00	3193168.02
C: 671	4.80'	91° 44' 02"	3.00'	4.31	S62° 07' 09"E	1627276.45	3193265.18
C: 672	29.87'	85° 33' 57"	20.00'	27.17	N29° 13' 52"E	1627274.44	3193268.98
C: 674	4.71'	90° 00' 00"	3.00'	4.24	S62° 32' 43"E	1627357.47	3193112.50
C: 675	4.71'	90° 00' 00"	3.00'	4.24	S27° 27' 17"W	1627369.18	3193111.95
C: 676	4.71'	90° 00' 00"	3.00'	4.24	S62° 32' 43"E	1627456.95	3193081.05
C: 678	4.71'	90° 00' 00"	3.00'	4.24	S27° 27' 17"W	1627448.80	3193056.36
C: 679	4.71'	90° 00' 00"	3.00'	4.24	S62° 32' 43"E	1627359.22	3193081.53
C: 680	4.71'	90° 00' 00"	3.00'	4.24	S27° 27' 17"W	1627354.40	3193086.20
C: 681	4.71'	90° 00' 00"	3.00'	4.24	N62° 32' 43"W	1627262.87	3193115.14
C: 682	2.10'	6° 00' 46"	20.00'	2.10	S14° 32' 20"E	1627251.89	3193118.61
C: 683	29.77'	85° 16' 49"	20.00'	27.10	S31° 06' 28"W	1627249.86	3193119.14
C: 684	4.71'	90° 00' 00"	3.00'	4.24	N61° 15' 08"W	1627224.70	3193098.42
C: 686	57.99'	3° 30' 04"	949.00'	57.98	S75° 29' 54"W	1627232.19	3193059.77
C: 687	4.72'	90° 10' 42"	3.00'	4.25	S32° 20' 17"W	1627203.04	3193006.95
C: 688	3.15'	0° 11' 12"	967.00'	3.15	S77° 31' 14"W	1627199.45	3193004.67
C: 689	4.72'	90° 10' 42"	3.00'	4.25	N57° 17' 49"W	1627198.77	3193001.60
C: 690	90.00'	5° 26' 02"	949.00'	89.97	S80° 30' 33"W	1627215.72	3192994.85
C: 691	4.72'	90° 06' 50"	3.00'	4.25	S38° 20' 53"W	1627185.99	3192907.86
C: 692	6.08'	0° 21' 37"	967.00'	6.08	S83° 35' 08"W	1627182.66	3192905.23
C: 693	6.54'	124° 51' 00"	3.00'	5.32	N67° 45' 57"W	1627660.68	3193544.80
C: 694	9.63'	55° 09' 00"	10.00'	9.26	S22° 14' 03"W	1627660.68	3193544.80
C: 696	9.63'	55° 09' 00"	10.00'	9.26	S77° 23' 04"W	1627636.55	3193522.88
C: 697	6.54'	124° 51' 02"	3.00'	5.32	S12° 36' 55"E	1627639.72	3193512.68
C: 698	4.71'	90° 00' 03"	3.00'	4.24	S85° 11' 28"E	1627680.52	3193472.65
C: 699	7.30'	83° 38' 14"	5.00'	6.67	S1° 37' 40"W	1627697.13	3193464.43
C: 700	7.30'	83° 38' 15"	5.00'	6.67	N82° 00' 34"W	1627718.92	3193497.96
C: 701	4.71'	90° 00' 03"	3.00'	4.24	N4° 48' 32"E	1627704.76	3193505.99
C: 702	1.68'	96° 21' 46"	1.00'	1.49	N88° 22' 20"W	1627697.09	3193465.92

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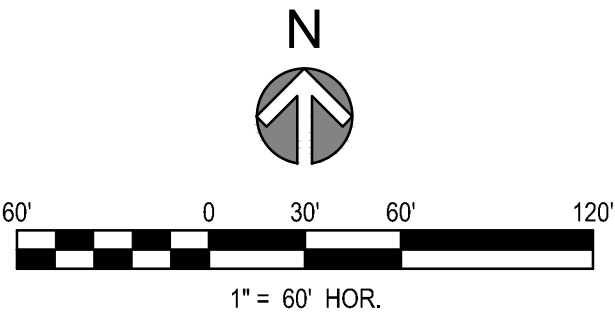
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NOTES:

1. SEE SHEET CV01 FOR LEGEND AND ABBREVIATIONS.
2. SEE SHEET GN01 FOR GENERAL NOTES.
3. SEE SHEETS STRM01 - STRM03 FOR STORM SEWER PLAN AND PROFILES.
4. ALL ELEVATIONS ARE TO FLOW LINE UNLESS OTHERWISE NOTED

PROPOSED SPILL CURB & GUTTER

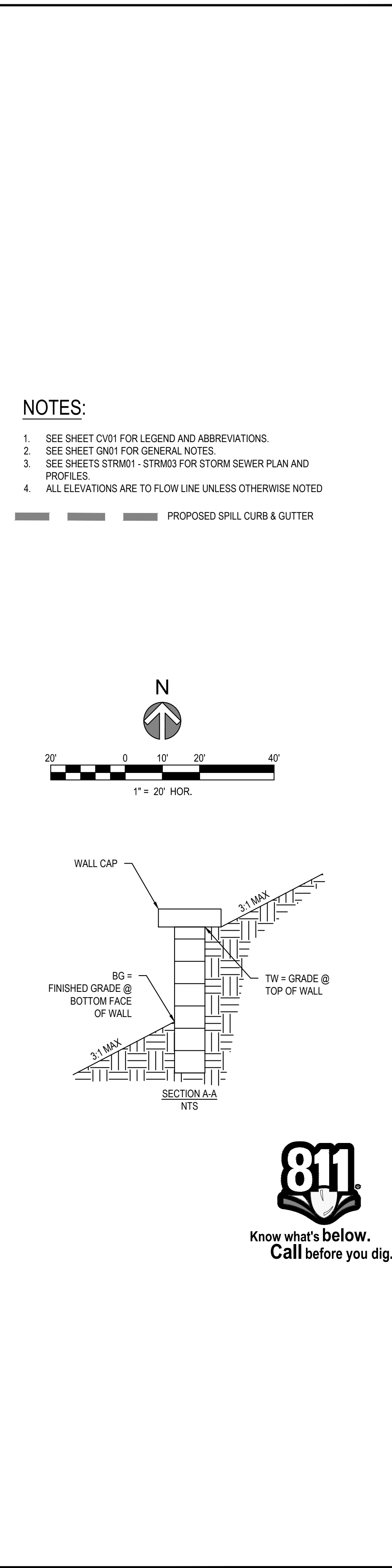


The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

This review does not constitute approval of any private on-site improvements which may be shown. Construction cannot commence until all required drainage/traffic report(s), final development plan(s), special review(s), grading permit, and/or other permits are complete, approved and on file with the Town of Parker.

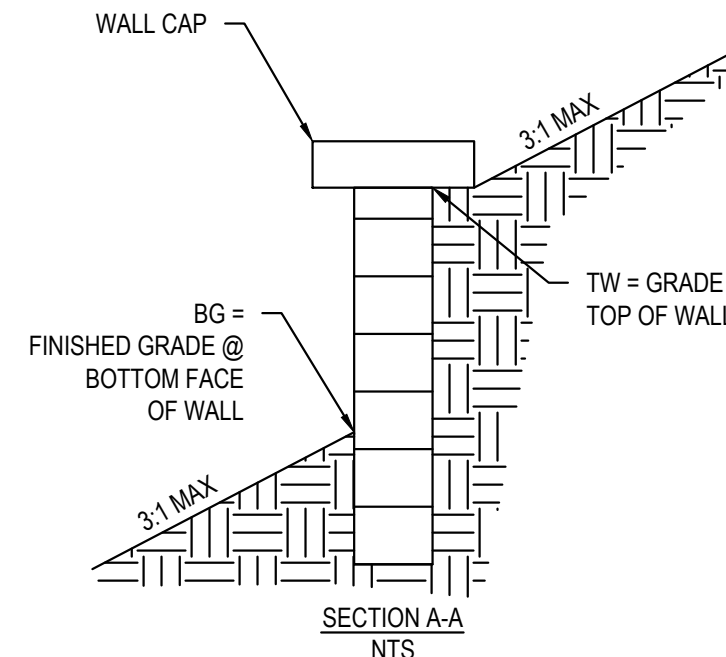
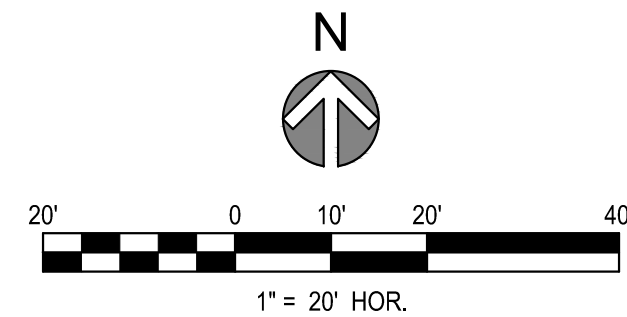
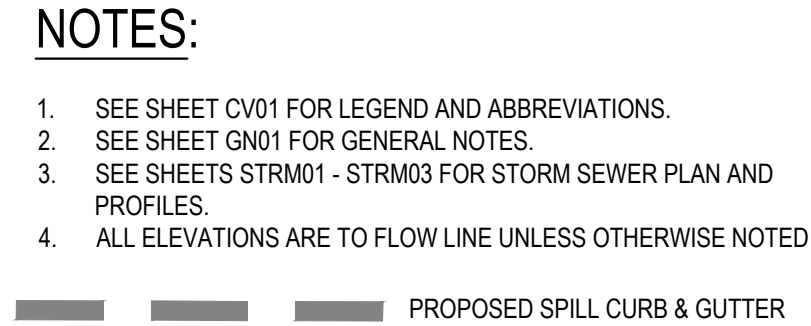
Town of Parker, Director of Engineering
10/26/2022
Date

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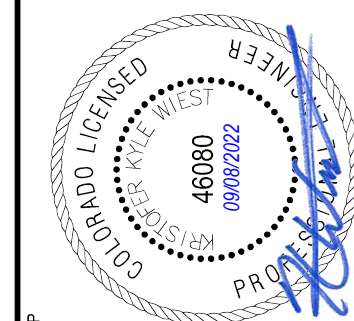
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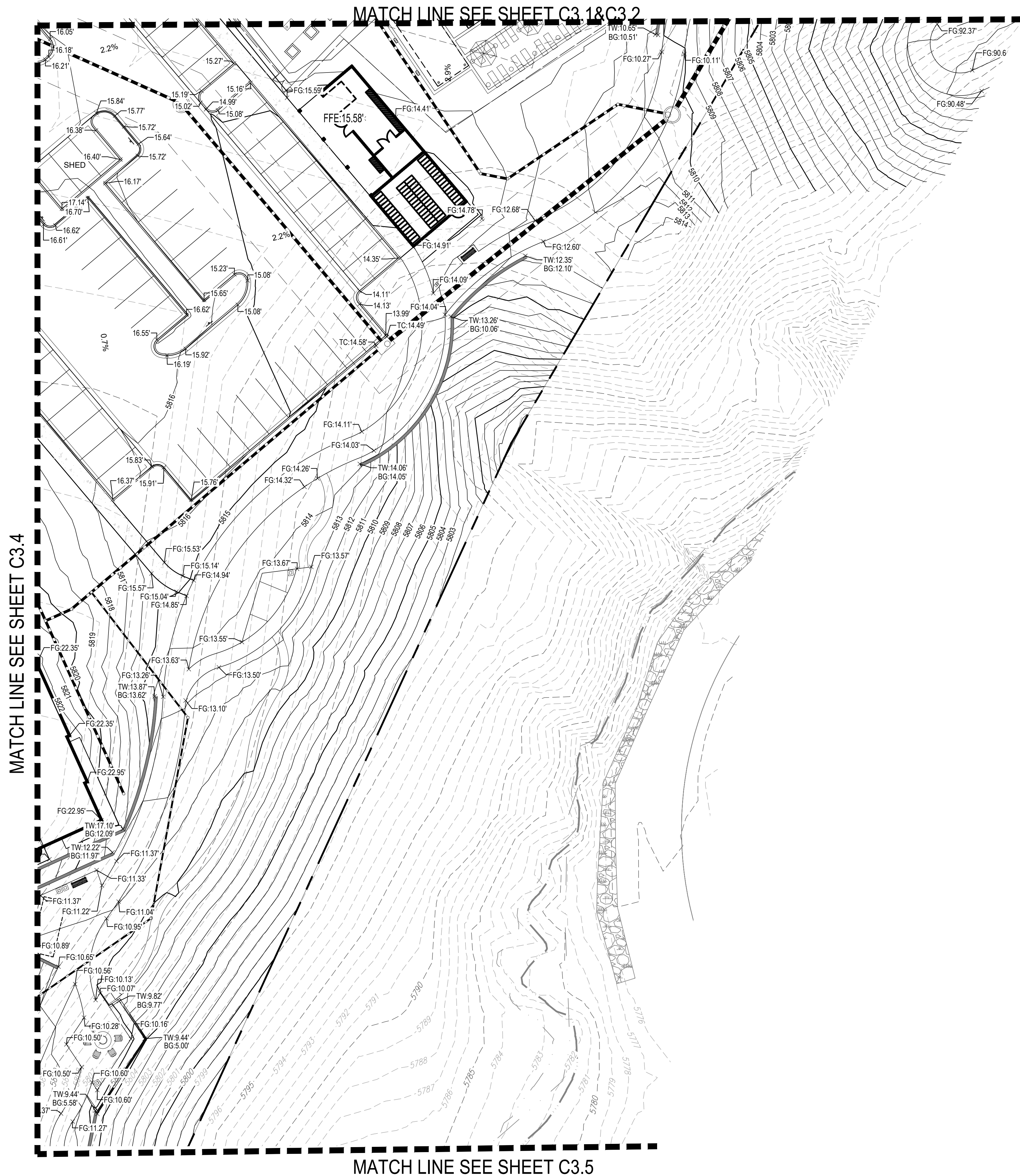
COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

DETAIL GRADING PLAN



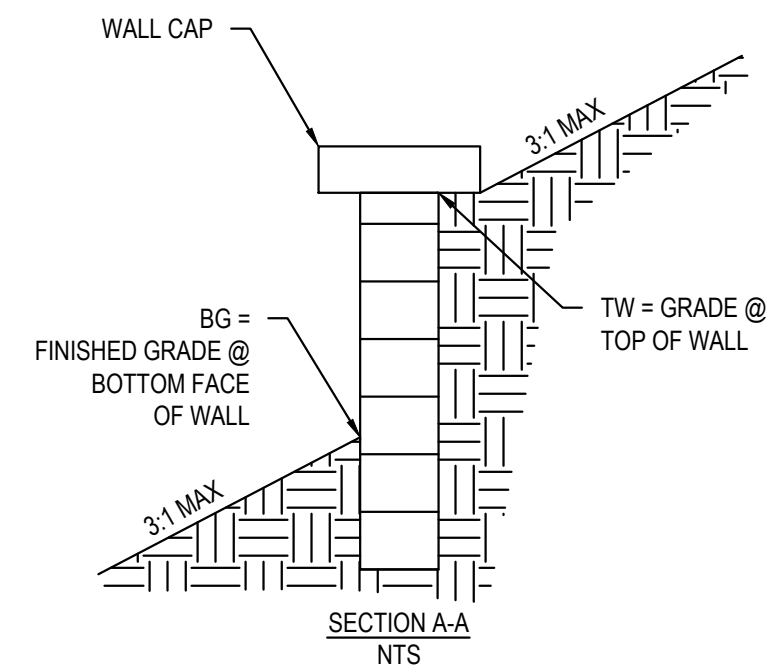
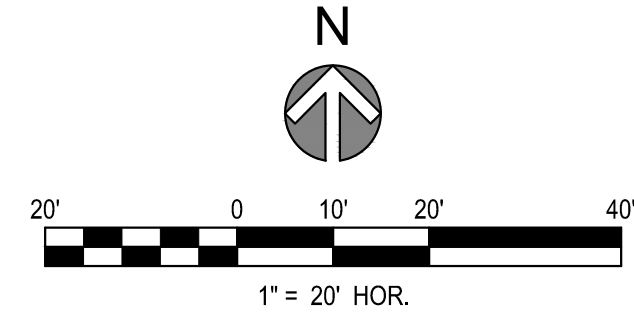
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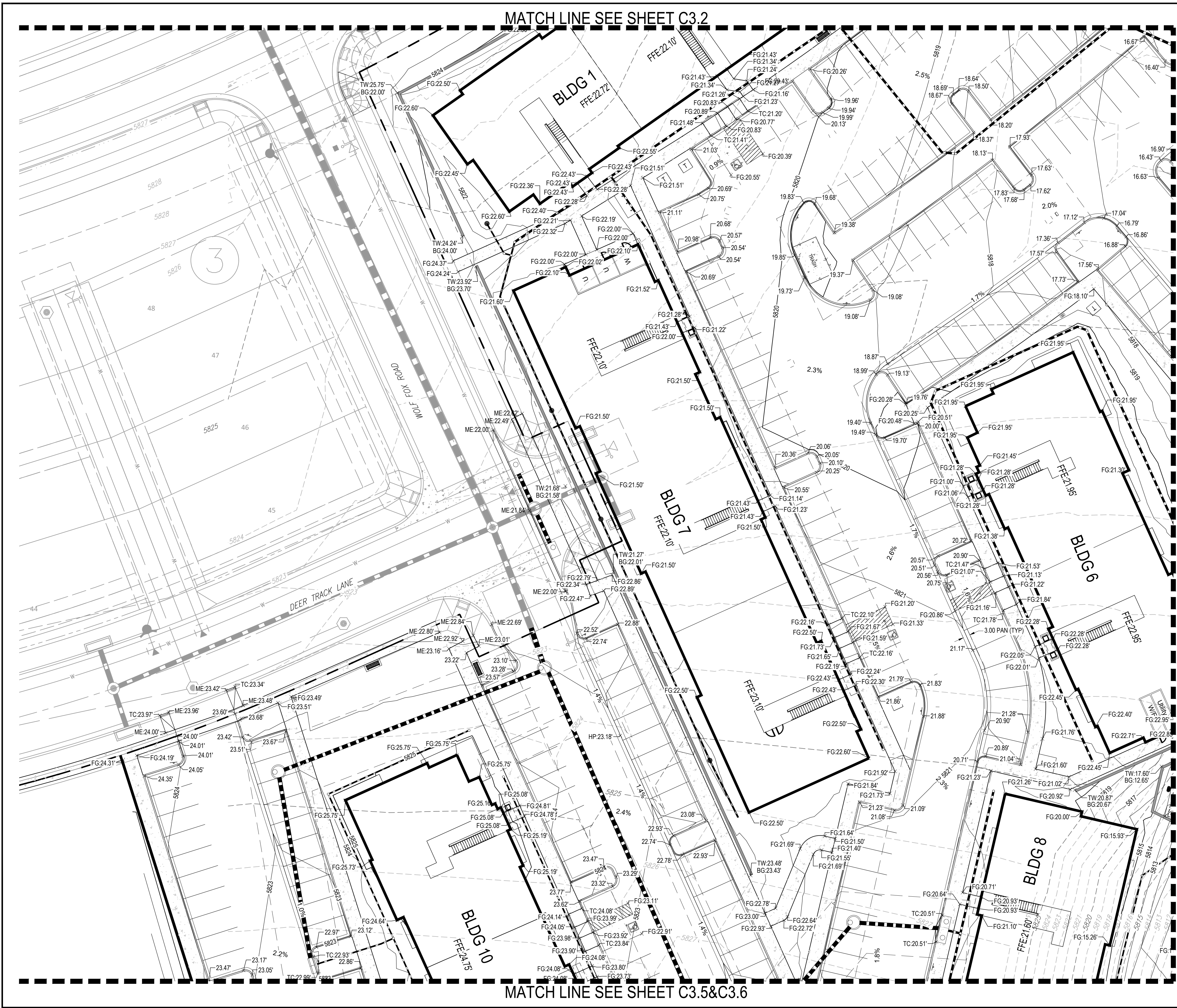
1. SEE SHEET CV01 FOR LEGEND AND ABBREVIATIONS.
2. SEE SHEET GN01 FOR GENERAL NOTES.
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PROPOSED SPILL CURB
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 PROPOSED SPILL CURB & GUTTER



Know what's **below**.
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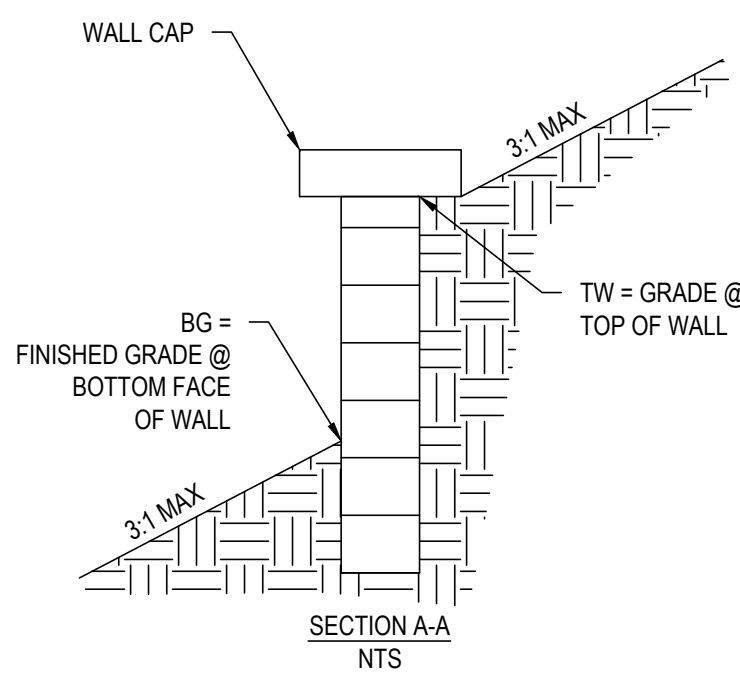
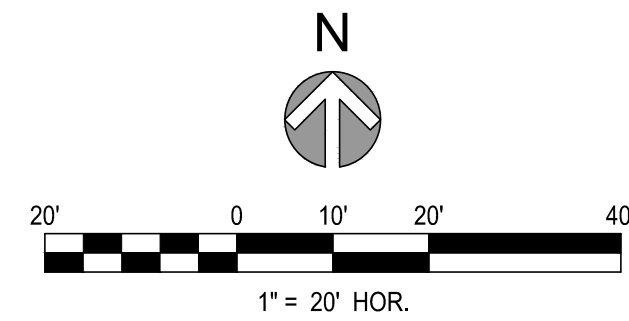
JOB NUMBER 65120950	JOB NUMBER 65120950		TITLE	COMPARK VILLAGE SOUTH PRIVATE IMPROVEMENT CONSTRUCTION PLANS DETAIL GRADING PLAN										 MERRICK® Engineering Architecture Design-Build Surveying Planning Geospatial Solutions 6970 GREENWOOD PLAZA, EL V.D. GREENWOOD VILLAGE, CO. 80111 303.751.4744 www.merrick.com									
DATE 7/1/2022	DATE 7/1/2022		REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR															
SHEET																							
C3.3																							
14																							



NOTES:

1. SEE SHEET CV01 FOR LEGEND AND ABBREVIATIONS.
2. SEE SHEET GN01 FOR GENERAL NOTES.
3. SEE SHEETS STRM01 - STRM03 FOR STORM SEWER PLAN AND PROFILES.
4. ALL ELEVATIONS ARE TO FLOW LINE UNLESS OTHERWISE NOTED

PROPOSED SPILL CURB & GUTTER



Know what's **below**.
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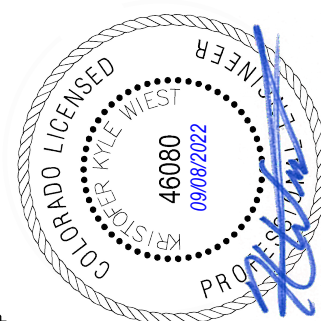
COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

DETAIL GRADING PLAN

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FOR AND ON BEHALF OF MERRICK & COMPANY

PE STAMP

65120050

DATE 03/20/2000

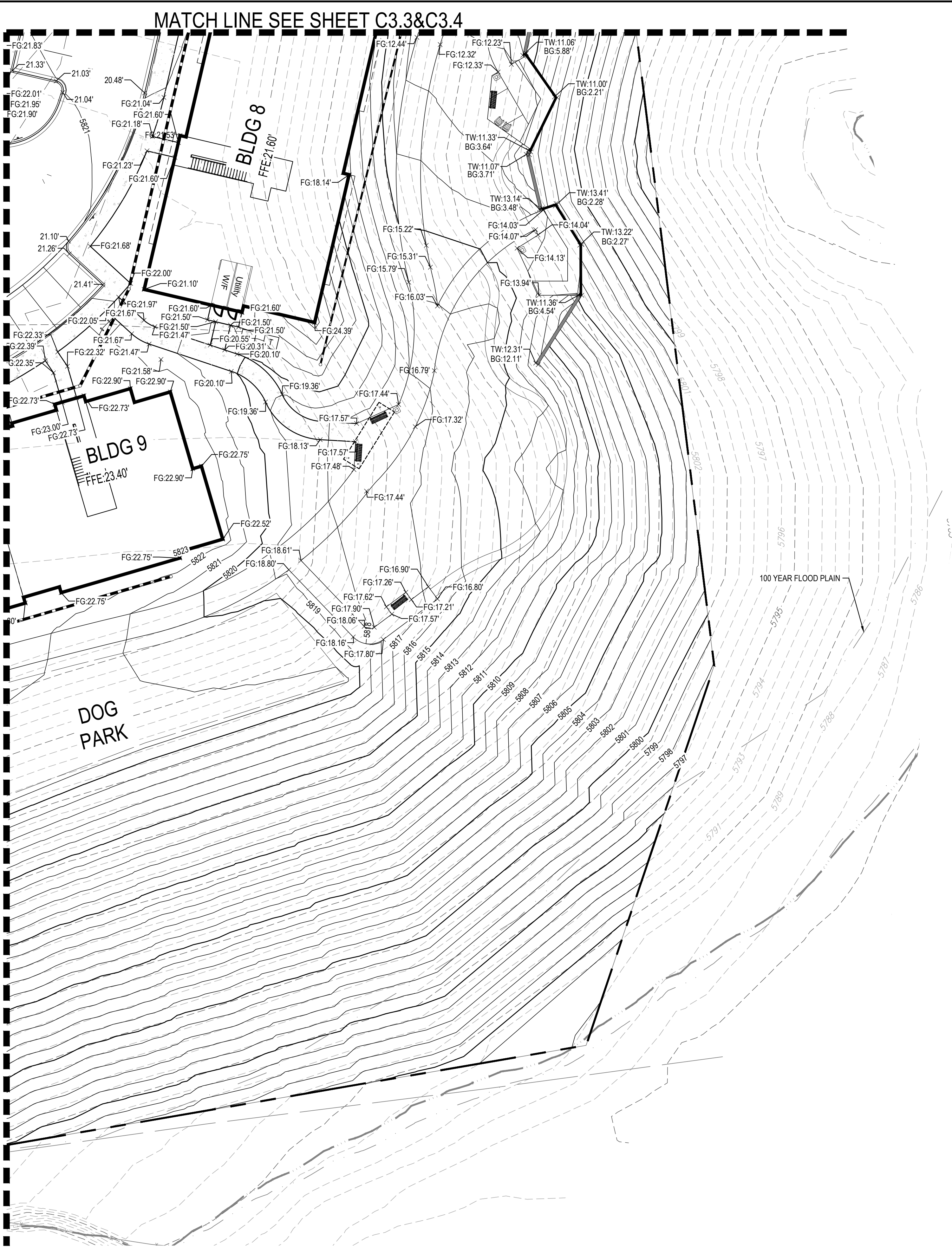
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C3.4

15

MATCH LINE SEE SHEET C3.6

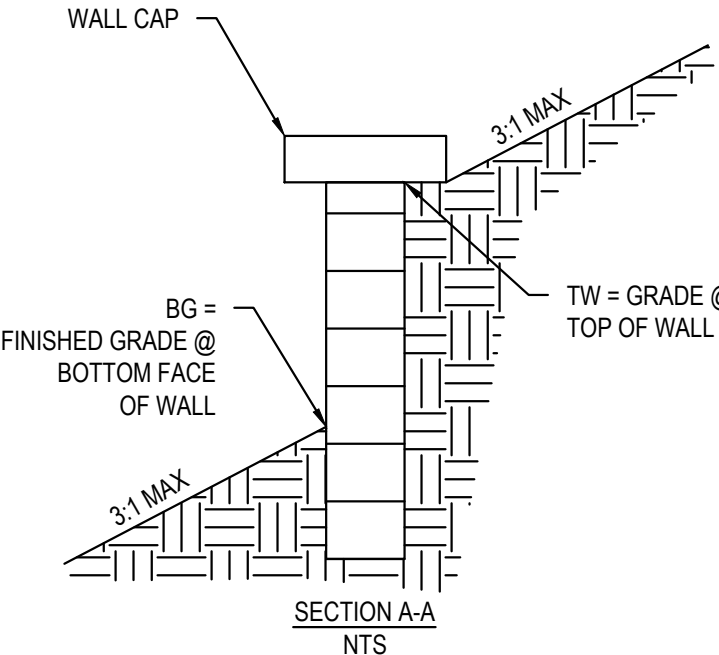
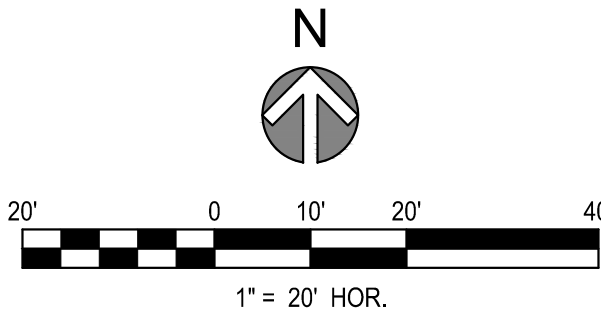
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NOTES:

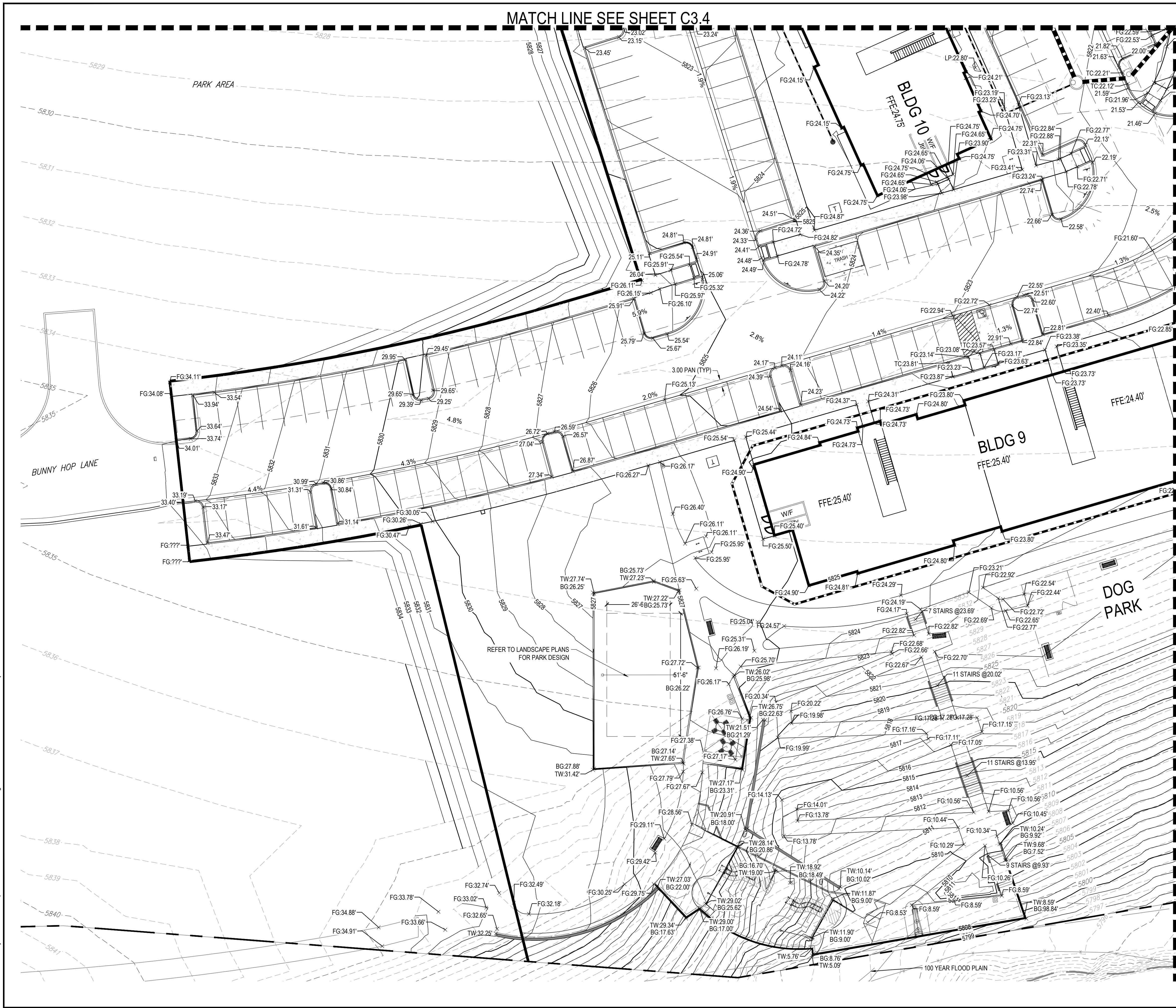
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2. SEE SHEET GN01 FOR GENERAL NOTES.
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PROPOSED SPILL CURB & GUTTER



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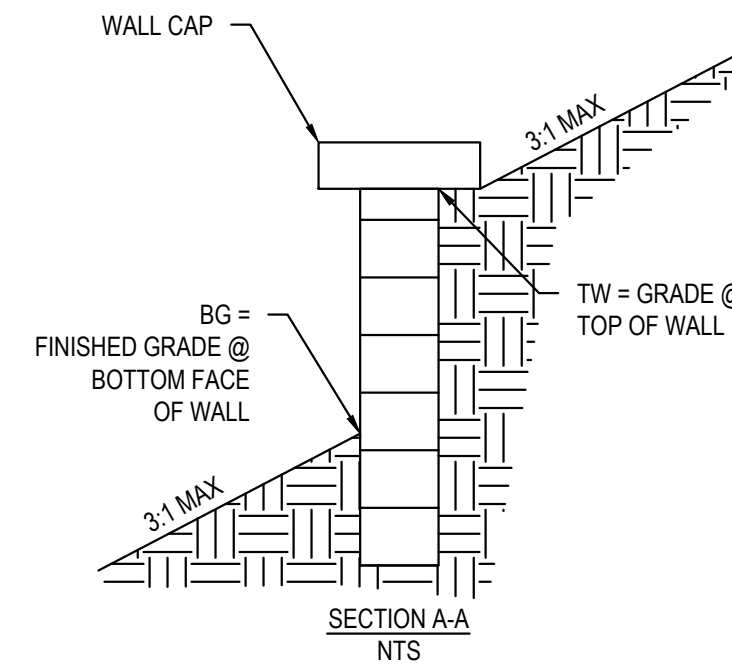
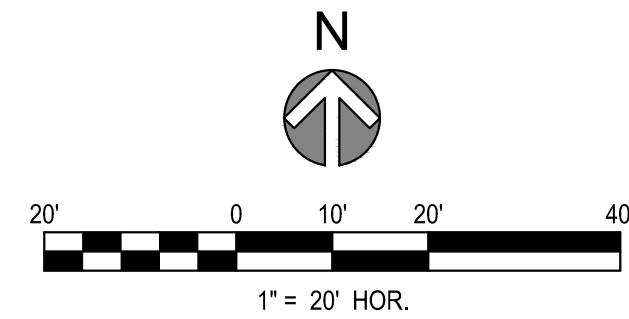
JOB NUMBER 65120950	DATE 7/1/2022	SHEET C3.5	16	 FOR AND BEHALF OF MERRICK & COMPANY	COMPARK VILLAGE SOUTH PRIVATE IMPROVEMENT CONSTRUCTION PLANS DETAIL GRADING PLAN										TITLE		
				CENTURY — LIVING — 													
				 MERRICK® Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions 5970 GREENWOOD PLAZA BLVD. GREENWOOD VILLAGE, CO. 80111 www.merrick.com													



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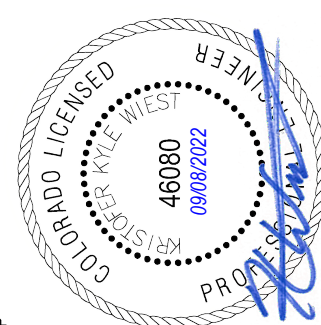
COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

DETAIL GRADING PLAN

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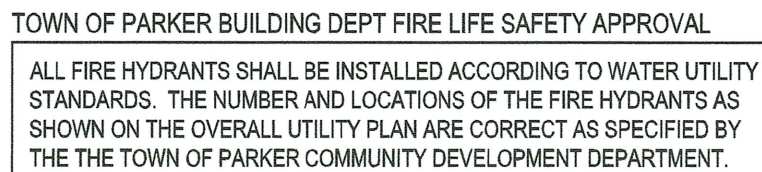
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JOB NUMBER	65120950
DATE	7/1/2022
SHEET	C3.6
	17

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FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE	DATE
(NOTE - UNDERGROUND FIRE LINE SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)	

DISTRICT APPROVALS

THESE DESIGN PLANS AND CONTRACT DOCUMENTS ARE REVIEWED FOR CONCEPT AND GENERAL CONFORMANCE TO THE DISTRICT'S MINIMUM STANDARDS ONLY, AND THE PRIMARY RESPONSIBILITY FOR THE DESIGN ADEQUACY IS TO REMAIN WITH THE ENGINEER OF RECORD. THIS REVIEW DOES NOT IMPLY RESPONSIBILITY BY EITHER THE STONEGATE WASTE MANAGEMENT DISTRICT OR THE DISTRICT ENGINEER FOR COMPLETENESS, ACCURACY OR CORRECTNESS OF CALCULATIONS. THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS INDICATED ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE STONEGATE WASTE MANAGEMENT DISTRICT. THE REVIEW DOES NOT IMPLY THAT ADDITIONAL QUANTITIES OF ITEMS SHOWN MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

BY: Scott Barniv
STONEGATE VILLAGE METROPOLITAN DISTRICT ENGINEER

DATE: 9/8/2022

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Town of Parker, Director of Engineering

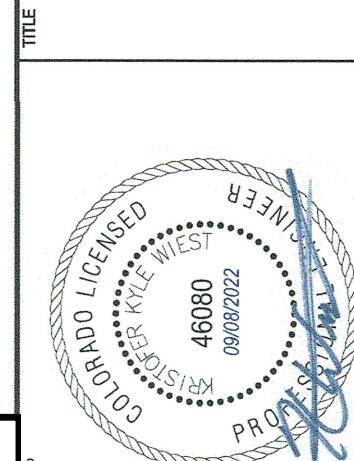
10/26/2022
Date

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COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

OVERALL UTILITY PLAN



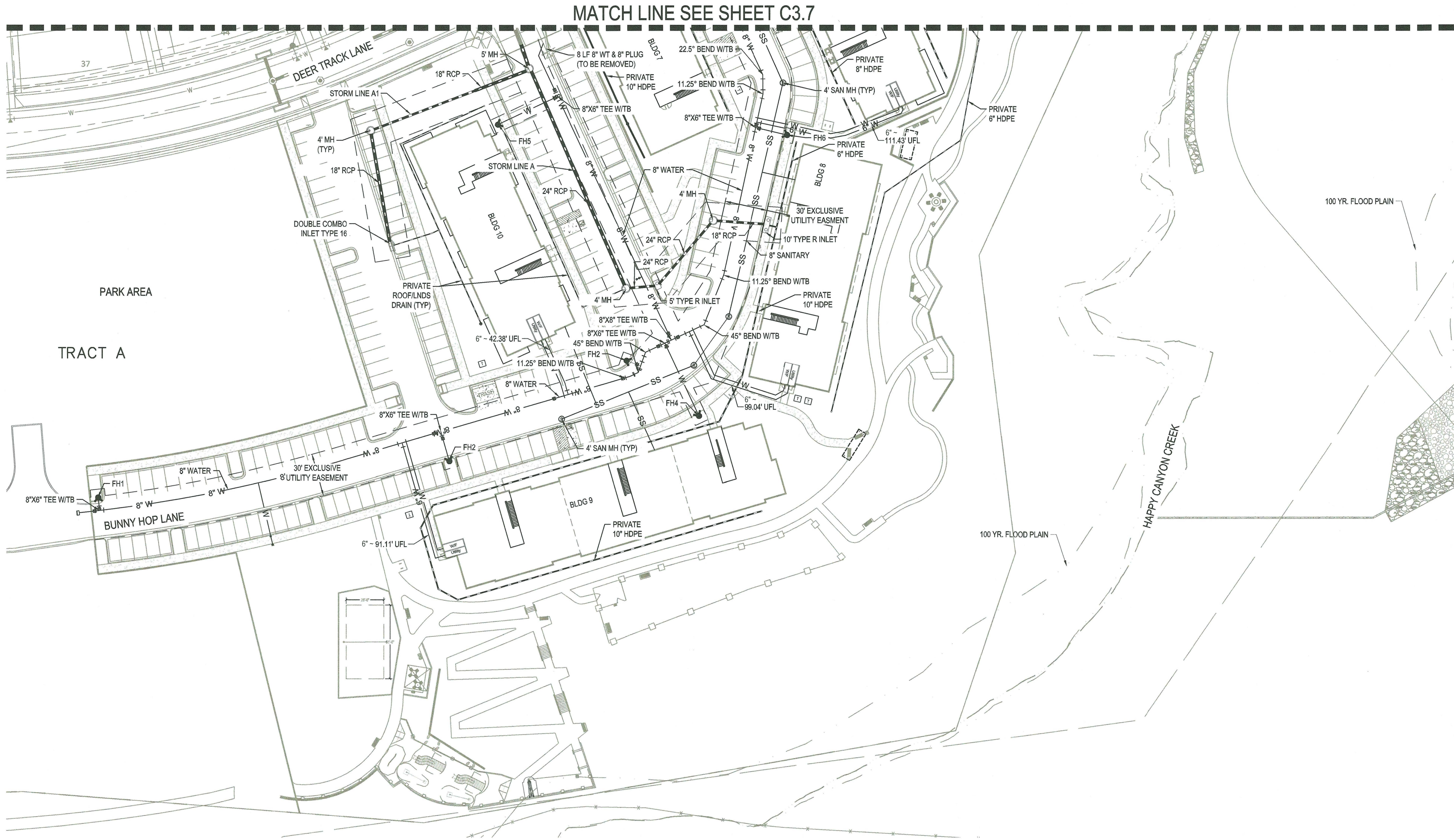
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DATE	7/1/2022
SHEET	C3.7
	18

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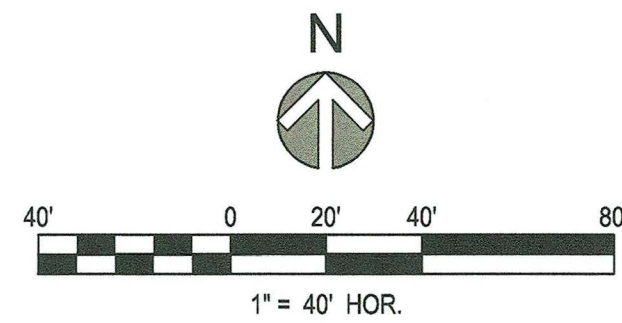
File Location: Q:\DEN\Projects\0950-00 Compark South\CADD\PCIP\0950-OVERALL UTIL.dwg Plot Date: 9/8/2022 2:26 PM Last Saved By: KBLACK



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NOTES:
CONTRACTOR TO FIELD VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES AND IRRIGATION.



TOWN OF PARKER BUILDING DEPT FIRE LIFE SAFETY APPROVAL
ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER COMMUNITY DEVELOPMENT DEPARTMENT.

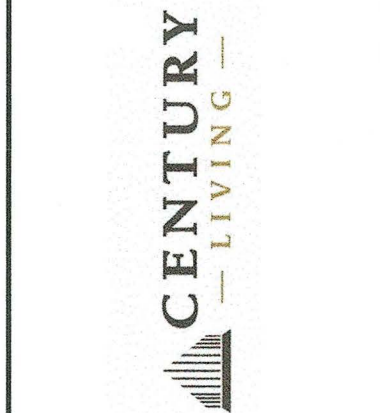
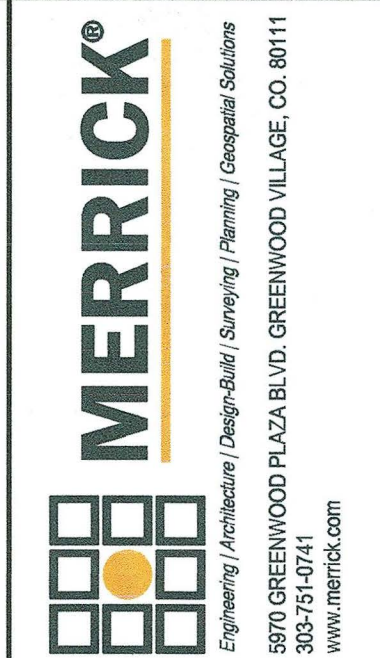
FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE _____ DATE _____
(NOTE - UNDERGROUND FIRE LINE SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)

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BY: Scott Barnett
STONEGATE VILLAGE METROPOLITAN DISTRICT ENGINEER
DATE: 9/8/2022

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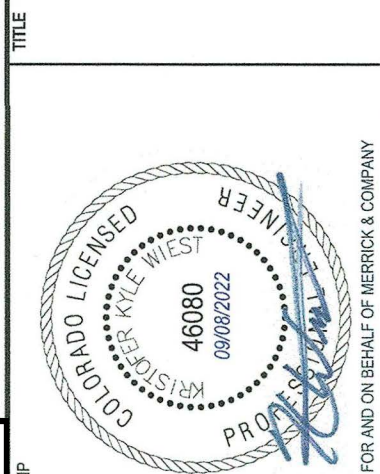
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[Signature] 10/26/2022
Town of Parker, Director of Engineering Date



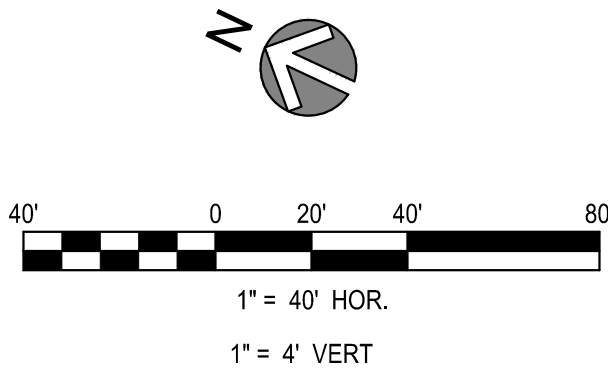
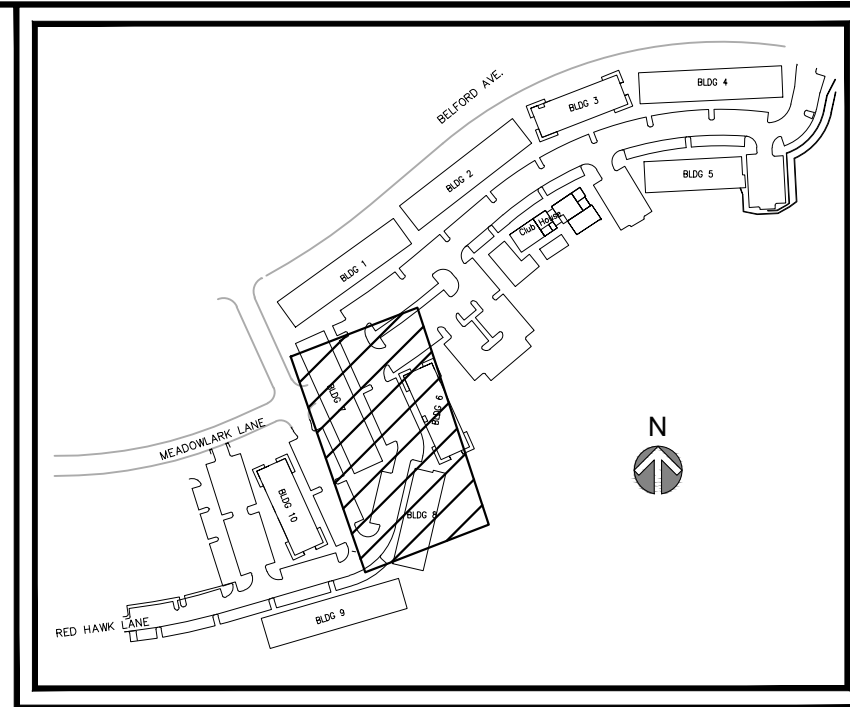
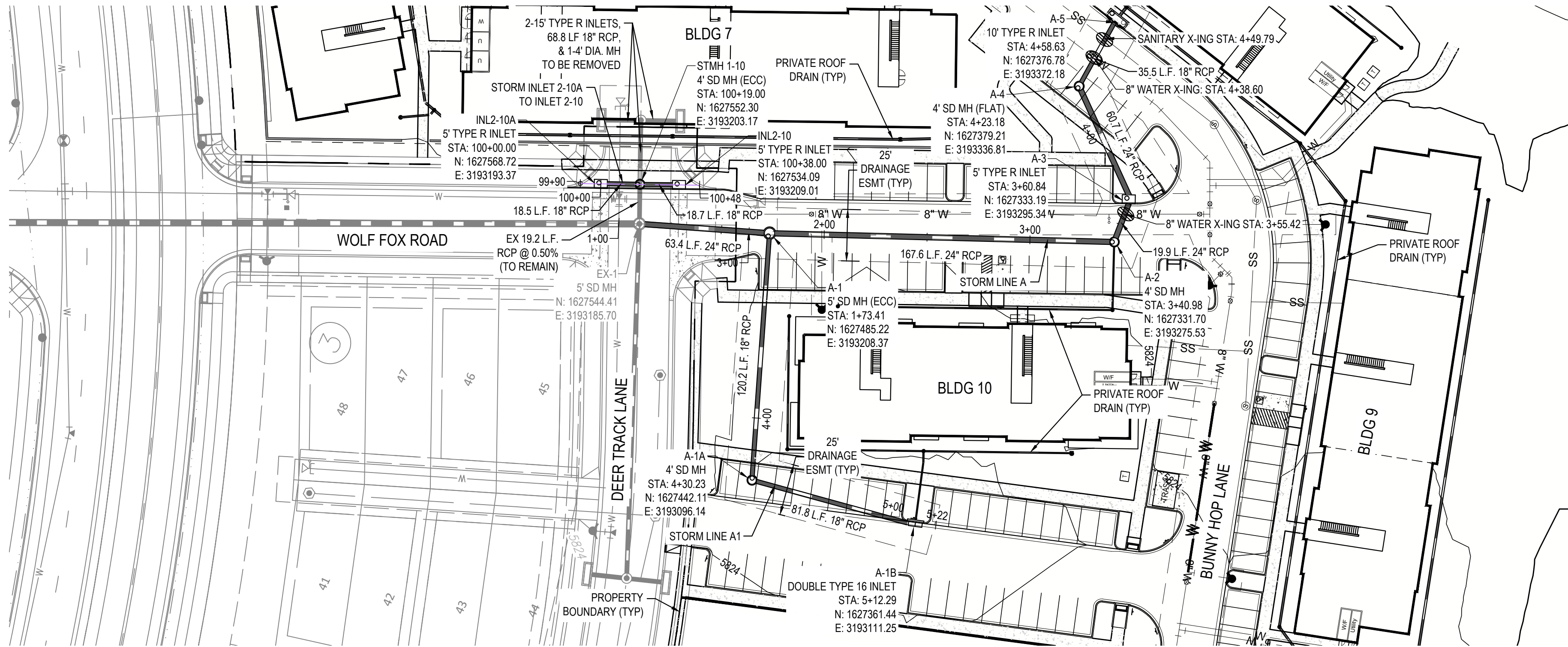
REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

COMPARK VILLAGE SOUTH
PRIVATE IMPROVEMENT
CONSTRUCTION PLANS
OVERALL UTILITY PLAN



JOB NUMBER	65120850
DATE	7/1/2022
SHEET	C3.8
	19

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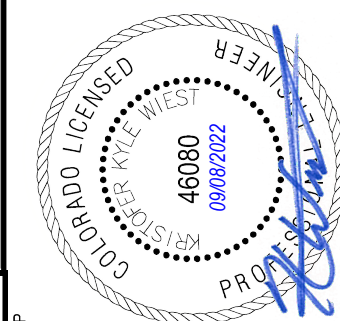
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[illegible]

STRM PLAN & PROFILE



PE STAMP

65120950

DATE _____

SHEET

3

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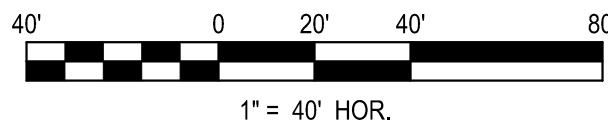
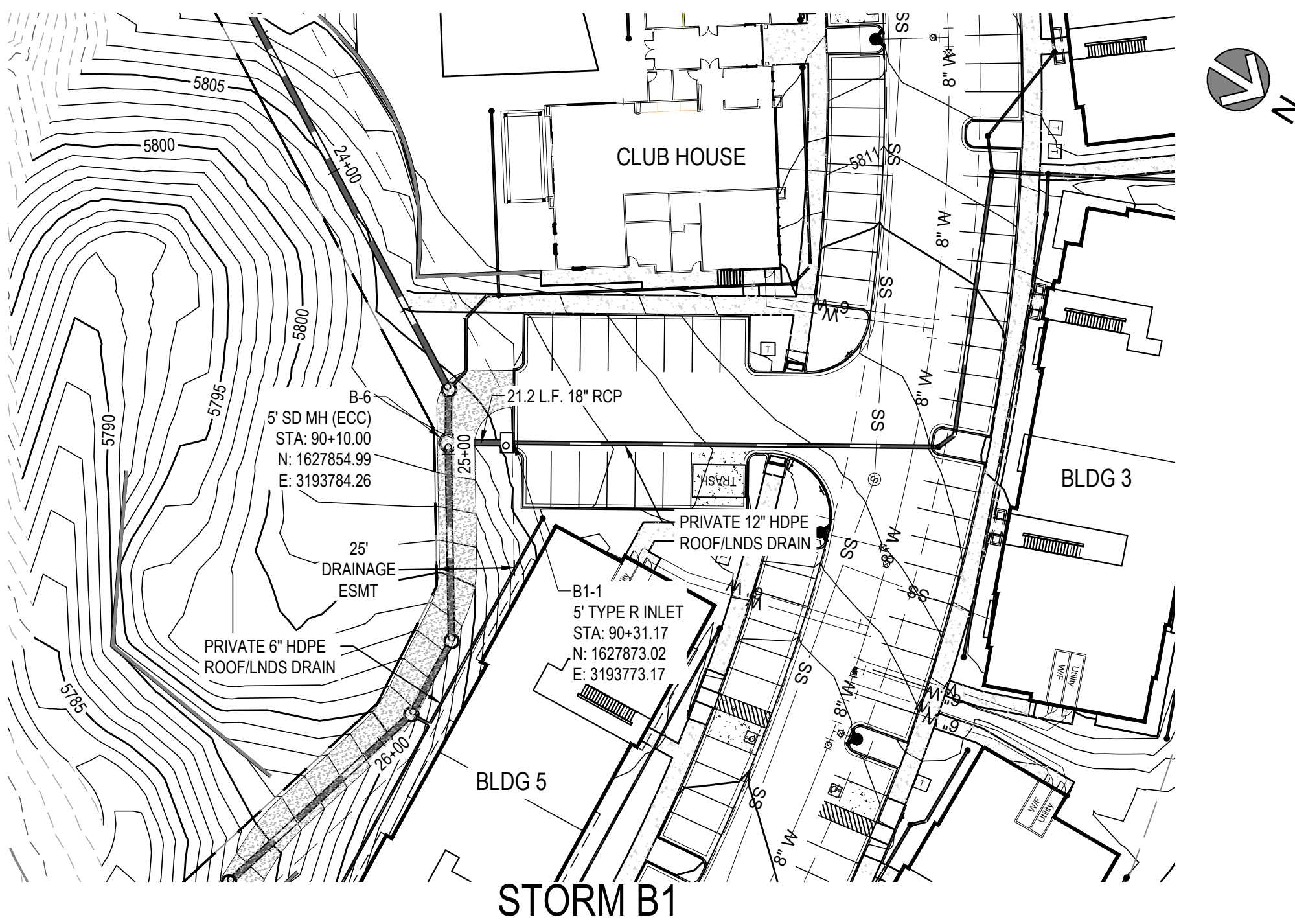
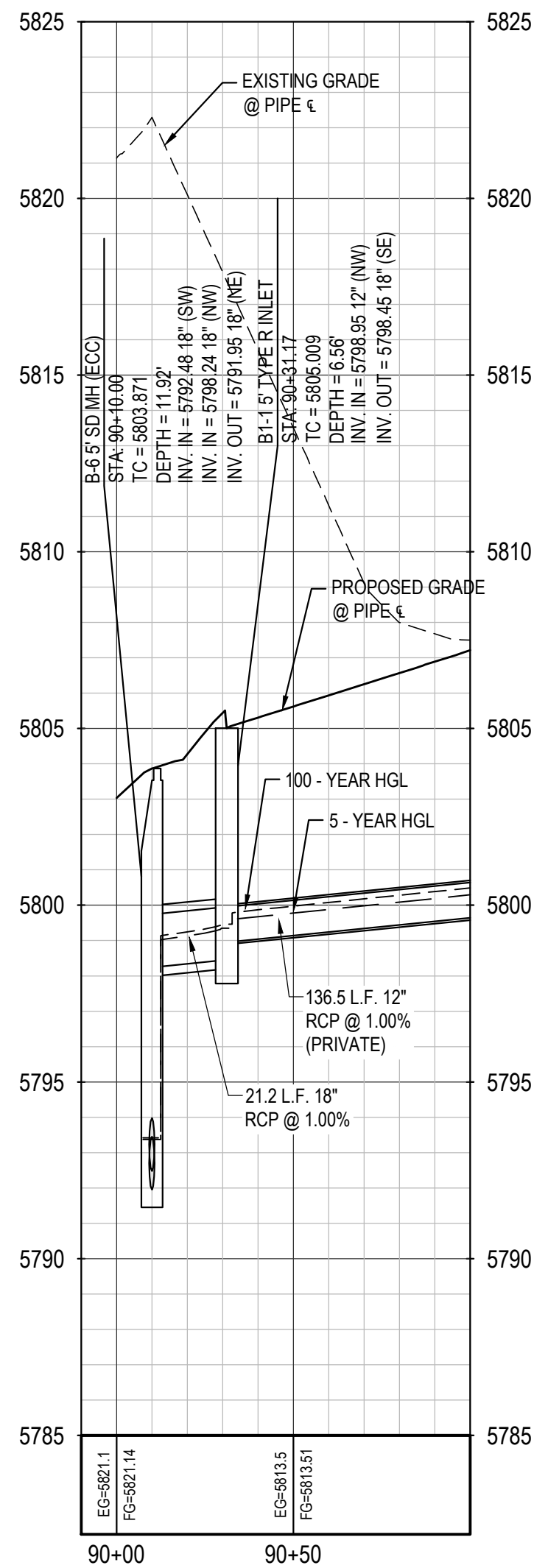
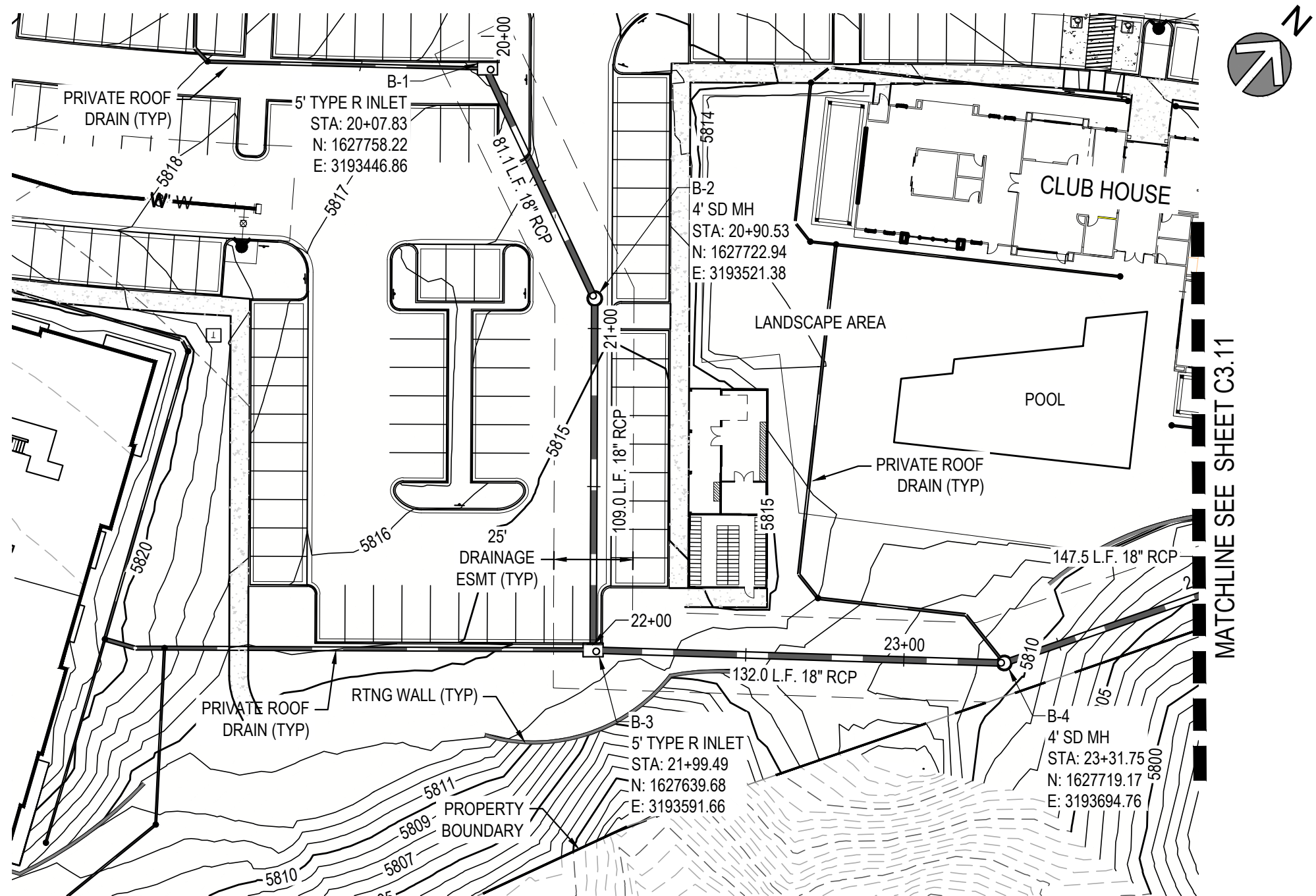
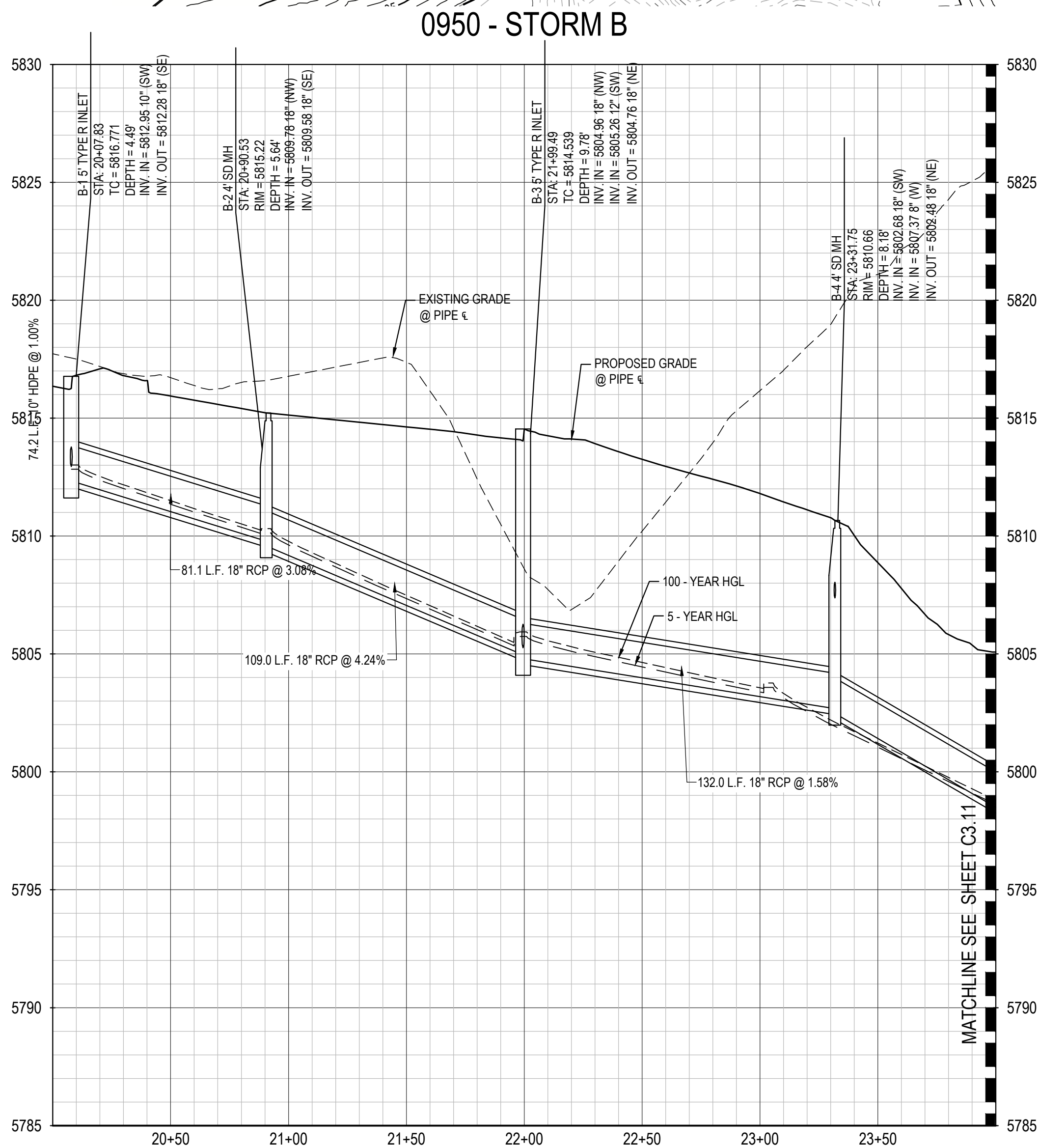
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Town of Parker, Director of Engineering

10/26/2022
Date

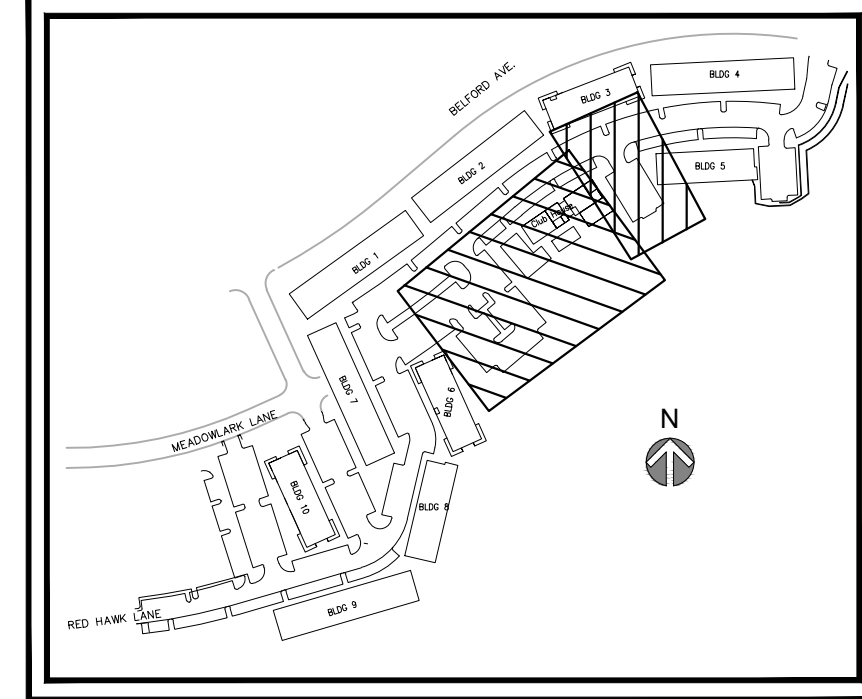


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NOTES:

1. ALL STATIONING & PIPE LENGTHS ARE TO CENTER OF STRUCTURE.
2. ALL RCP TO BE CLASS III UNLESS SPECIFIED OTHERWISE.
3. CONTRACTOR TO VERIFY LOCATION/ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. ALL MANHOLES TO HAVE 48" INNER DIAMETER.
5. DETENTION POND AND OUTFALL TO BE CONSTRUCTED BY OTHERS.
6. ALL STORM SEWER IS PRIVATE UNLESS OTHERWISE NOTED.



COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

STRM PLAN & PROFILE

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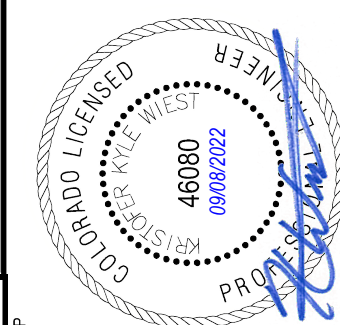
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PE STAMP

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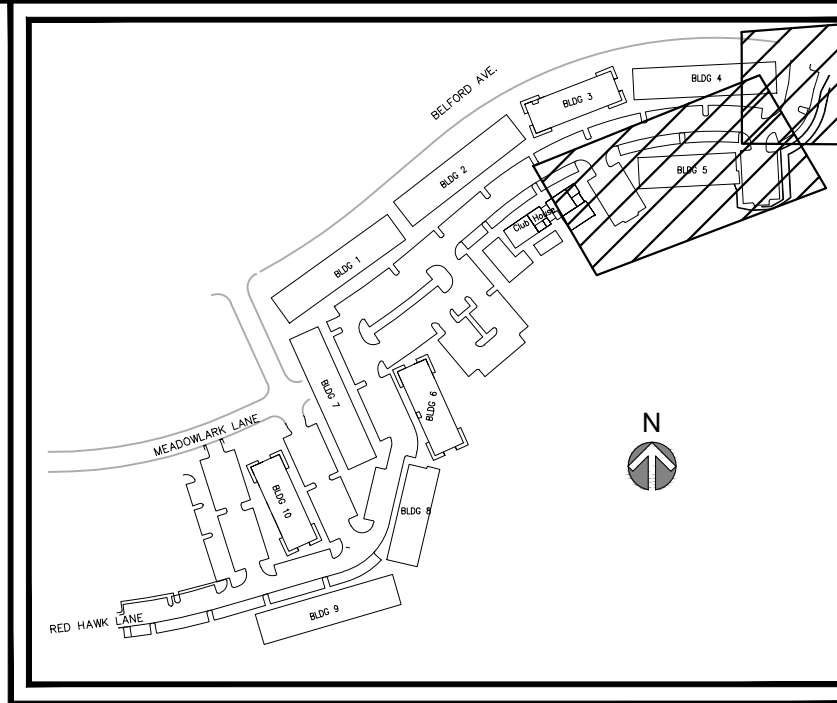
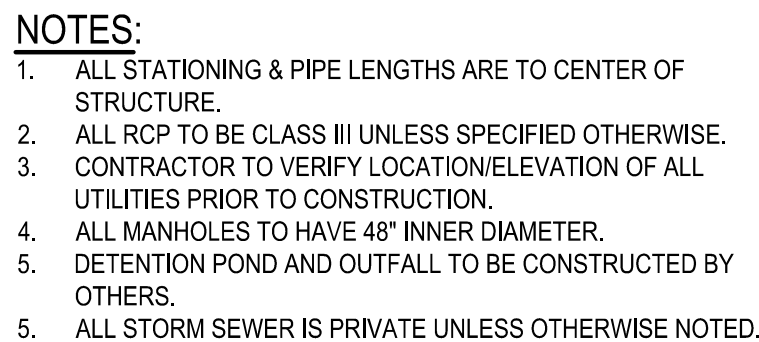
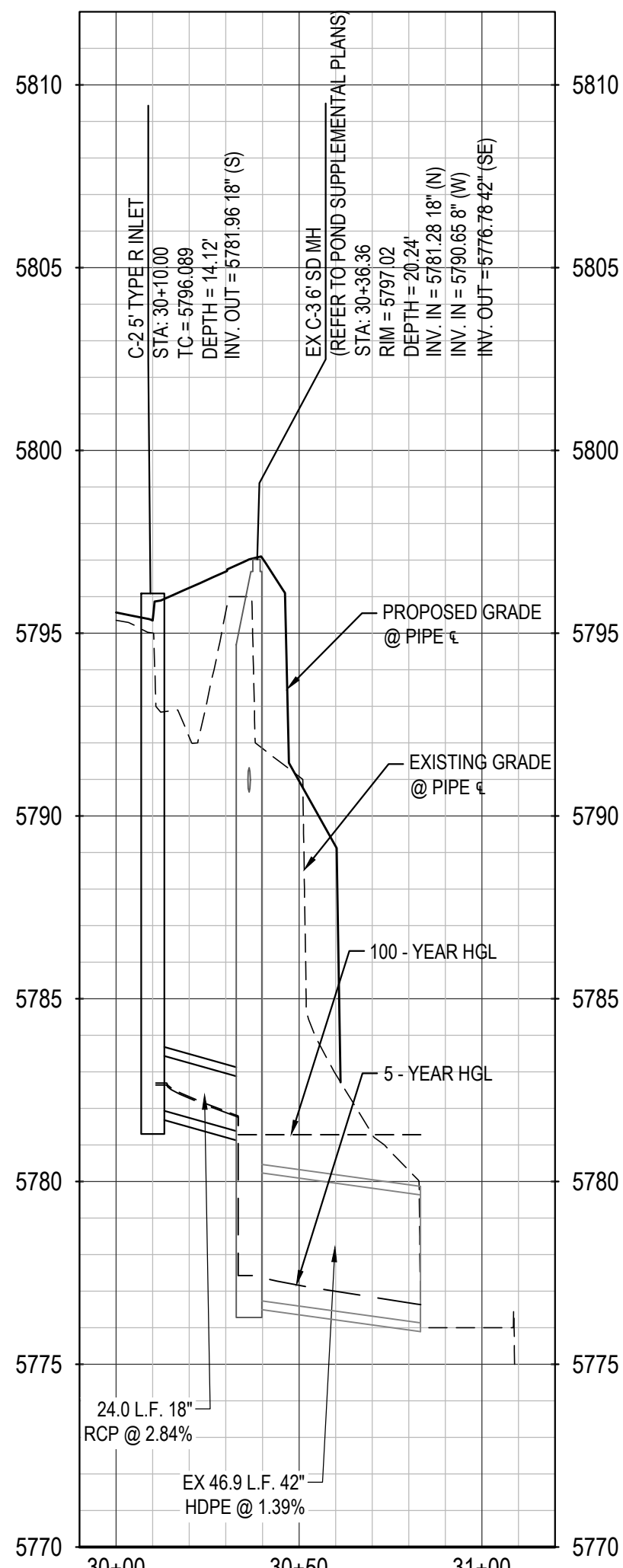
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FOR AND ON BEHALF OF MERRICK & COMPANY

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CONSTRUCTION PLANS

STRM PLAN & PROFILE



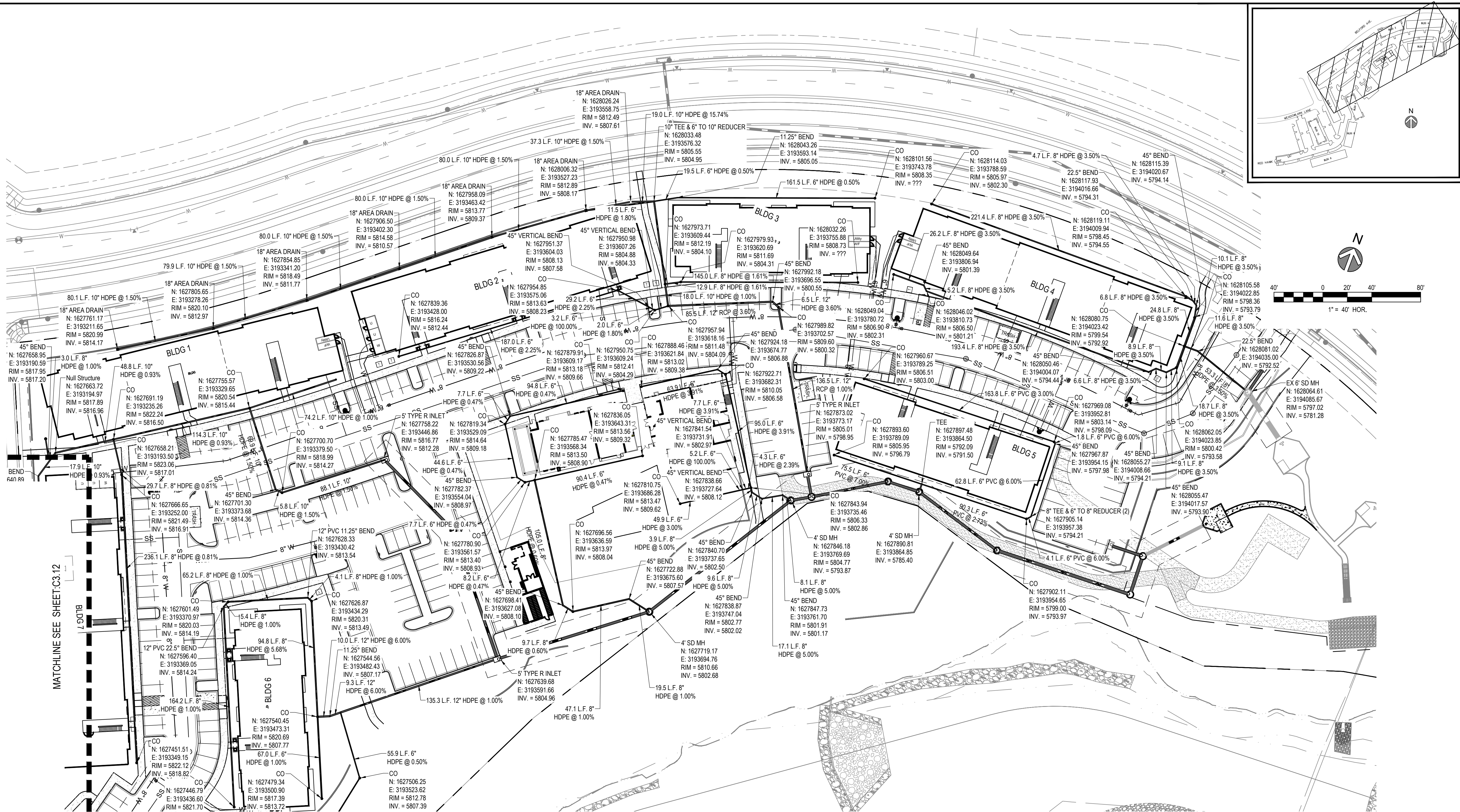
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10/26/2022
Date

JOB NUMBER	65120950
DATE	7/1/2022
SHEET	C3.11
	22



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Date

COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

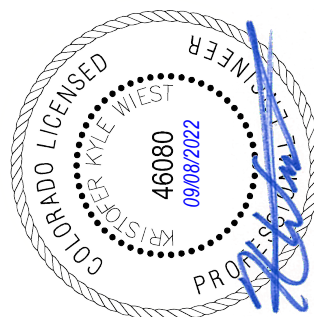
STRM ROOF DRAINAGE PLAN

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PE STAMP

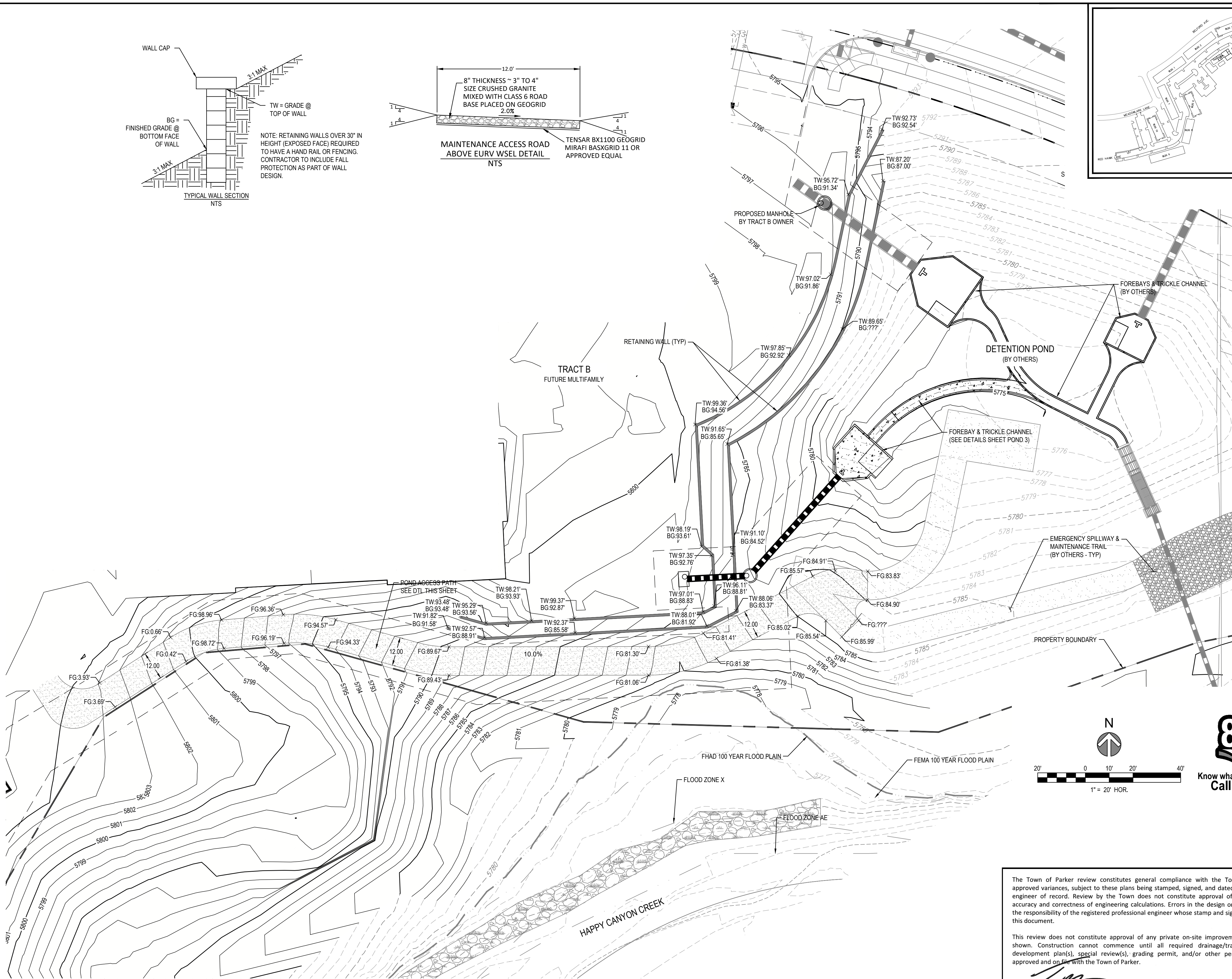
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DATE 7/1/2022

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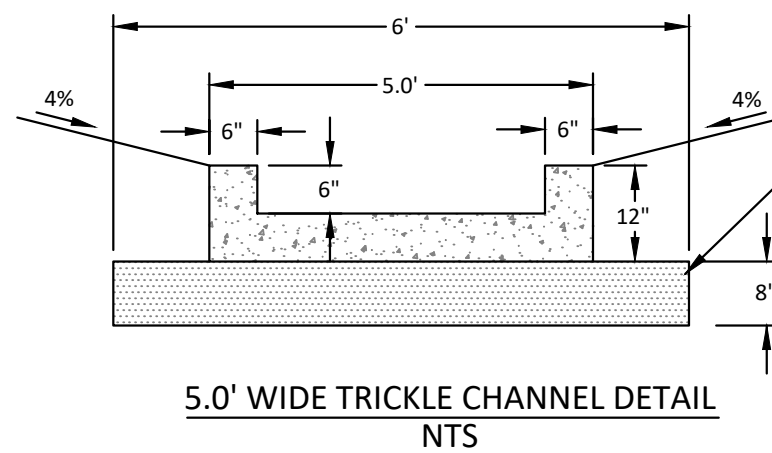
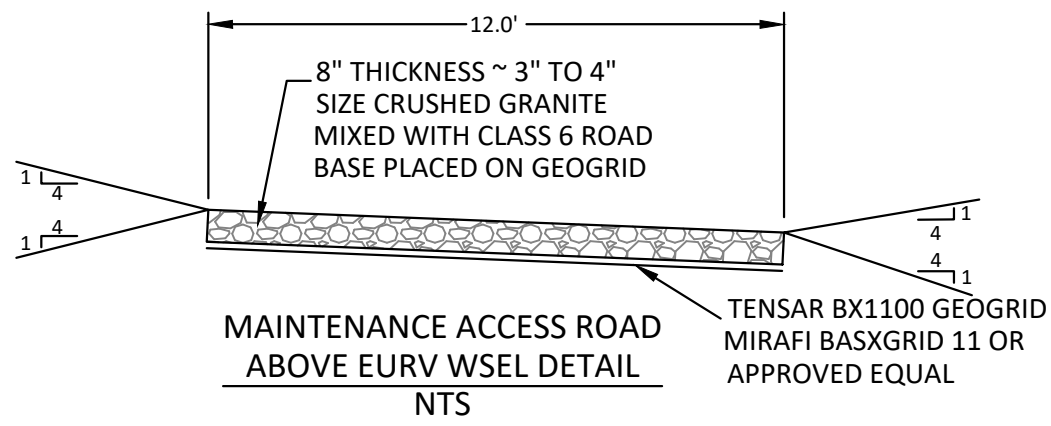
 10/26/2022
Town of Parker, Director of Engineering Date

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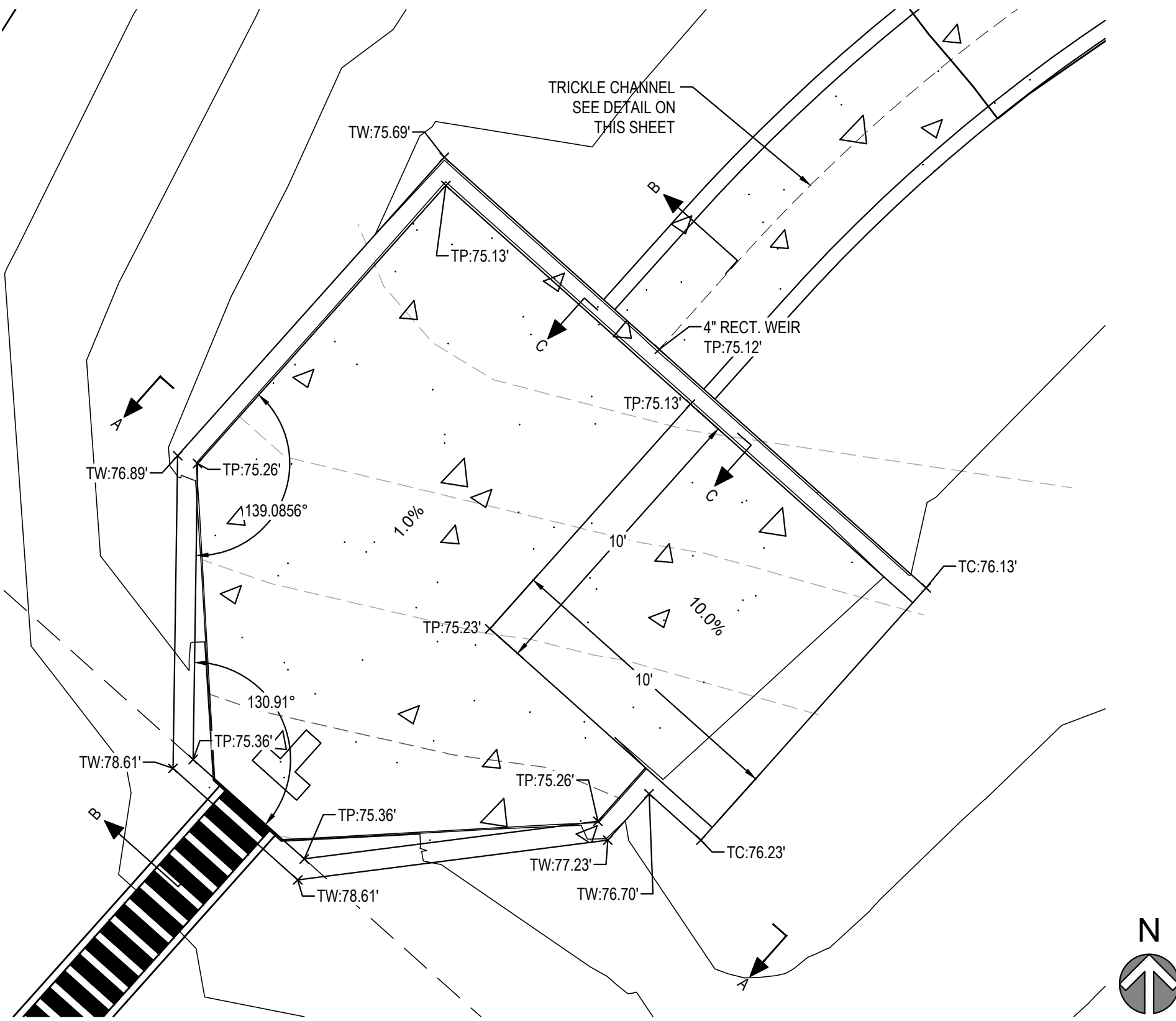


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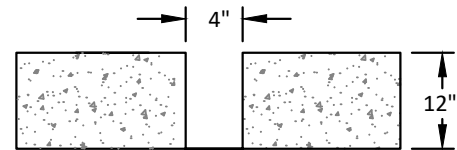


TYPE II BEDDING MATERIAL PLACED ON 95% STD. PROCTOR DENSITY COMPACTED SUBGRADE

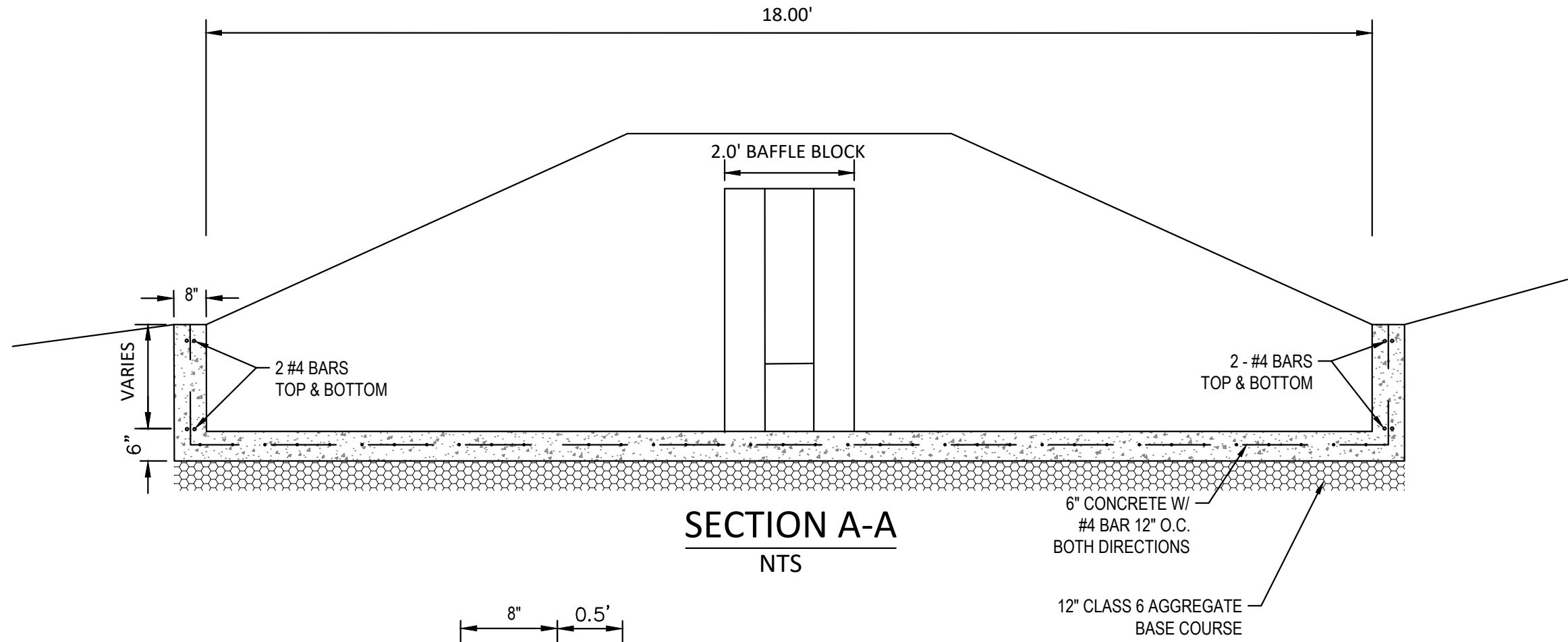
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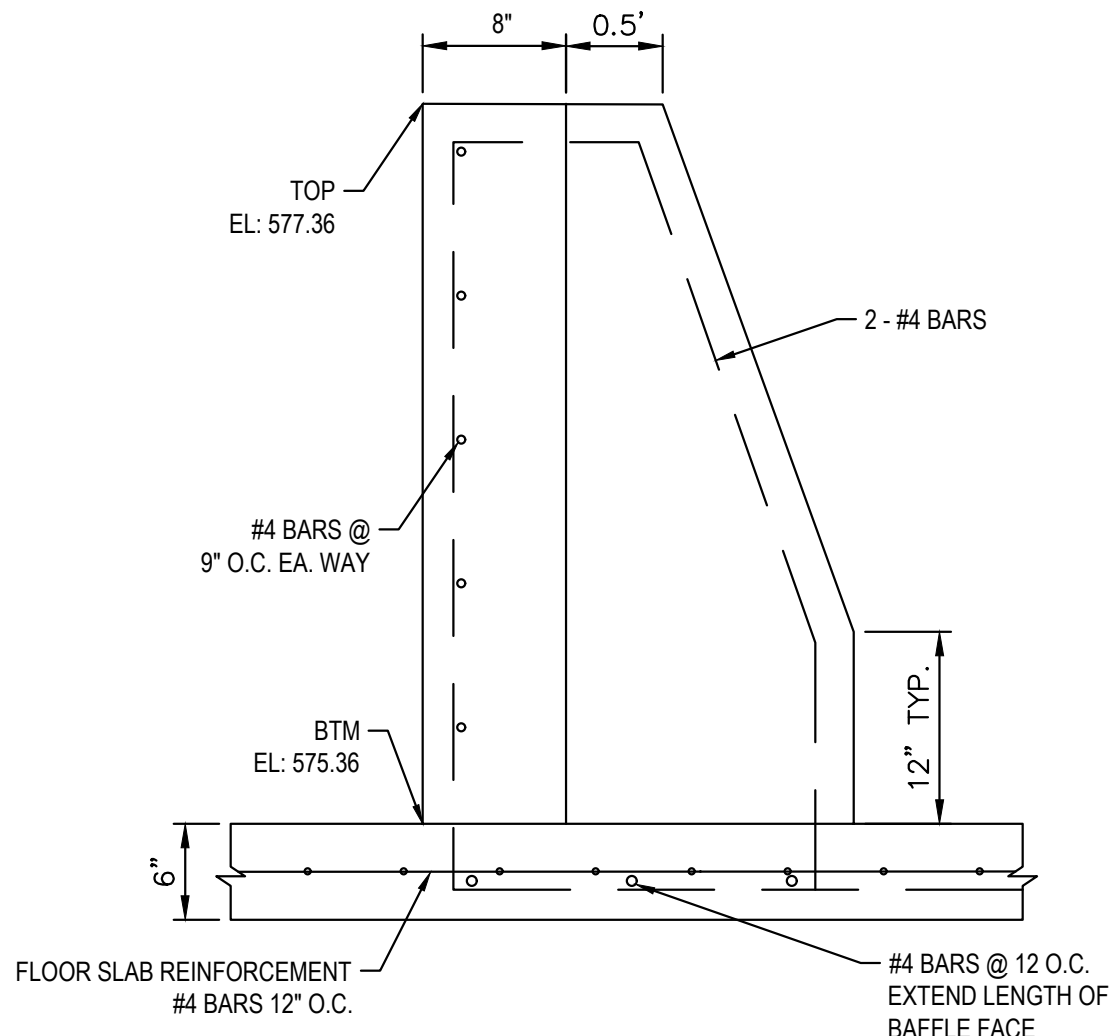
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SCALE: 1" = 4'



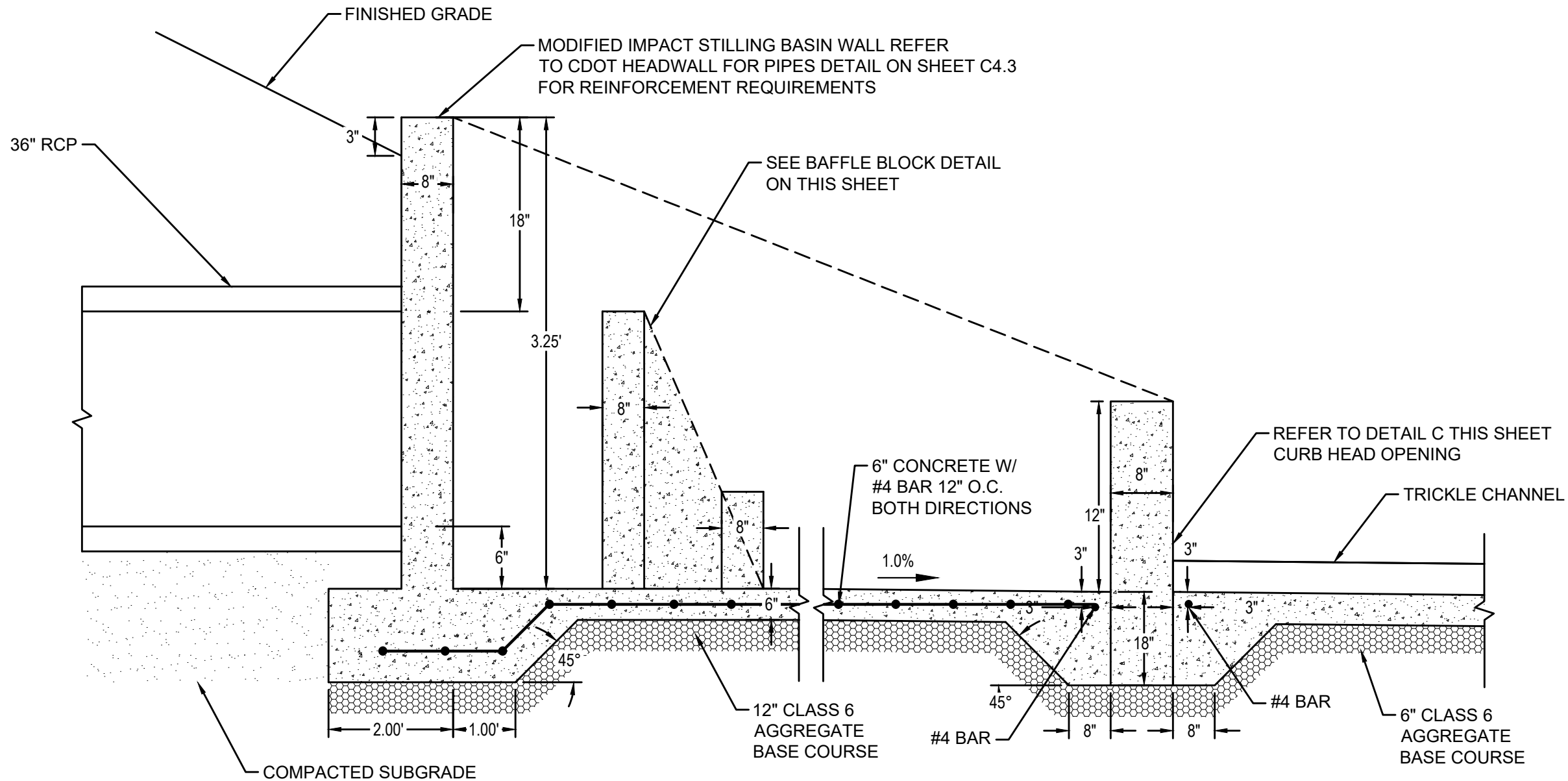
SECTION C-C FOREBAY NOTCH
NTS



SECTION A-A
NTS



BAFFLE BLOCK
REINFORCING DETAIL
NTS



SECTION B-B
FOREBAY DETAIL
N.T.S.

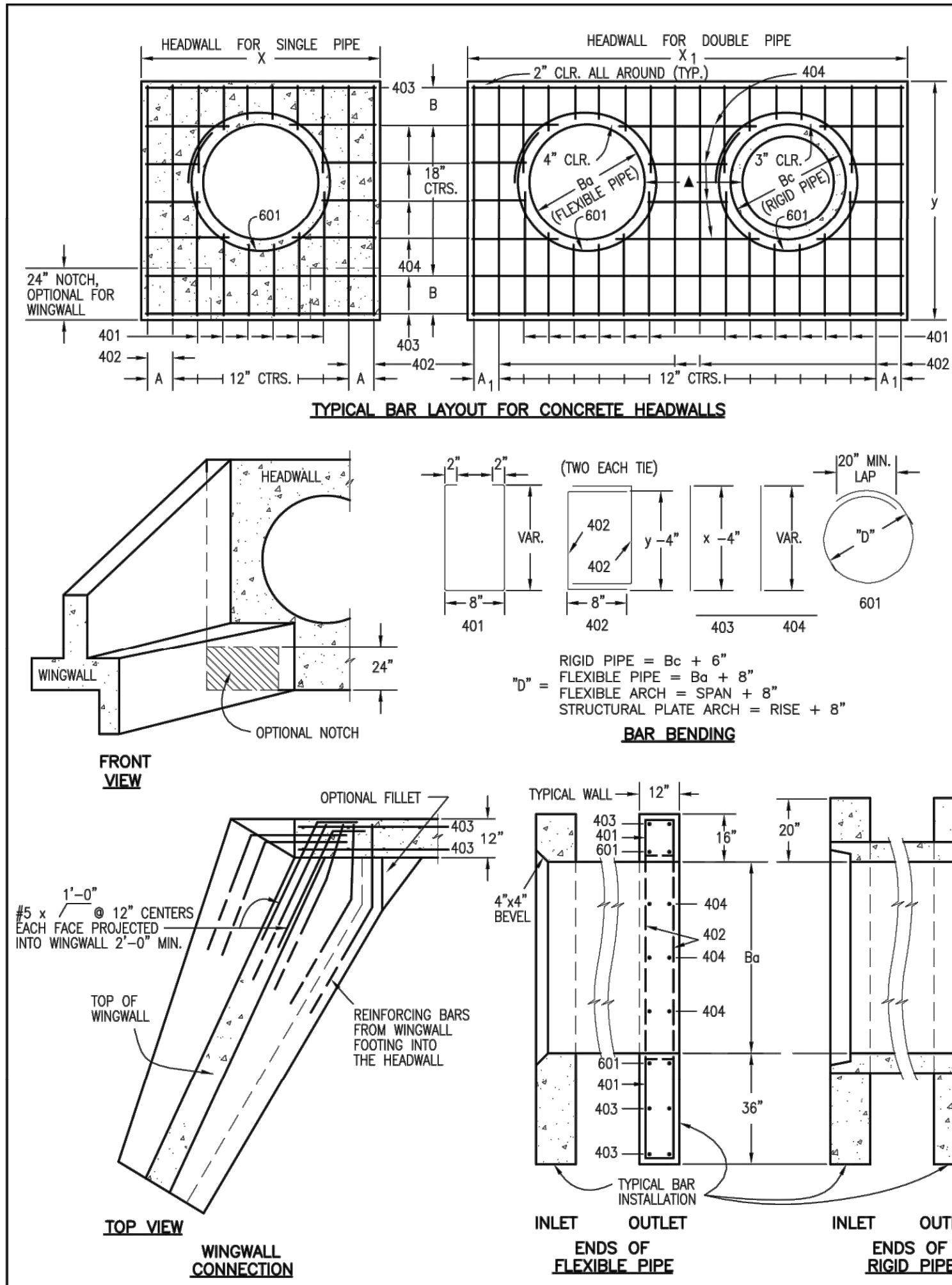
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10/26/2022
Date



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Computer File Information				Sheet Revisions			
Creation Date: 07/04/06	Initials: SJR	(R-X)		Date:	Comments		
Last Modification Date: 07/04/06	Initials: LTA	(R-X)					
Full Path: www.dot.state.co.us/DesignSupport/		(R-X)					
Drawing File Name: 6010100101.dwg		(R-X)					
CAD Ver.: MicroStation V8	Scale: Not to Scale	Units: English					

DIMENSIONS						QUANTITIES						
Ba	Bc	X	A	X1	A1	B	X2	CONCRETE	STEEL			
IN.	IN.	FT.-IN.	IN.	FT.-IN.	IN.	IN.	IN.	SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.	
54	65	8-9	8 1/2	15-6	7	9-2	17	20	2.12	3.55	209	364
60	72	9-6	7	17-0	10	9-8	11	21	2.35	3.99	236	414
66	79	10-3	11 1/2	18-6	7	10-2	14	22	2.60	4.44	249	453
72	86	11-0	10	20-0	10	10-8	17	23	2.85	4.91	270	476
78	93	11-9	8 1/2	21-3	11	11-2	11	24	3.11	5.29	306	527
84	100	12-6	7	22-6	7	11-8	14	25	3.38	5.68	333	572
90	107	13-3	11 1/2	23-9	8 1/2	12-2	17	26	3.66	6.08	335	593
96	114	14-0	10	25-0	10	12-8	11	27	3.94	6.48	379	649
102	121	14-9	8 1/2	26-3	11 1/2	13-2	14	28	4.24	6.89	400	664
108	128	15-6	7	27-6	7	13-8	17	29	4.54	7.30	424	707

HEADWALL FOR RIGID ROUND PIPE

DIMENSIONS						QUANTITIES					
Ba	Bc	X	A	X1	A1	B	X2	CONCRETE	STEEL		
IN.	IN.	FT.-IN.	IN.	FT.-IN.	IN.	IN.	IN.	SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.
54	66	8-6	7	15-3	11 1/2	8-10	15	2.19	3.81	211	358
60	72	9-0	10	16-6	9-4	18	2.38	4.25	217	396	
66	79	9-6	7	17-9	8 1/2	9-10	12	2.58	4.70	252	454
72	86	10-0	10	19-0	10-4	15	2.78	5.17	255	472	
78	93	10-6	7	20-0	10	10-10	18	2.98	5.56	276	499
84	100	11-0	10	21-0	10	11-4	12	3.19	5.95	297	553
90	107	11-6	7	22-0	10	11-10	15	3.40	6.36	317	517
96	114	12-0	10	23-0	10	12-4	18	3.62	6.79	321	597
102	121	12-6	7	24-0	10	12-10	12	3.84	7.21	364	663
108	128	13-0	10	25-0	10	13-4	15	4.06	7.63	362	678

HEADWALL FOR FLEXIBLE ROUND PIPE

WHEN APRON IS REQUIRED

SKEW ANGLE A°	90
FACTOR (cosec A°)	1.00

GENERAL NOTES

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2. HEADWALL MUST BE PERPENDICULAR TO THE PIPE & UNLESS OTHERWISE SHOWN ON THE PLANS, TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
3. FOR WINGWALL DETAILS, SEE STANDARD PLAN M-601-20.
4. VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED $\frac{3}{4}$ IN.
6. ALL REINFORCING BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.

▲ WHEN TWO OR MORE PIPES ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE $\frac{1}{2}$ INSIDE DIAMETER APART, OR $\frac{1}{2}$ INSIDE SPAN APART, OR 3 FT. APART (INCLUDING WALL THICKNESS), WHICHEVER IS LESS.

■ ADD $0.89 \times (X \text{ OR } X_1)$ (LB.) WHEN APRON IS REQUIRED.

DIMENSIONS

EQUIV. Ba IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	CONCRETE		STEEL ■	
									SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.
72	81	59	10-3	8 1/2	20-6	7	9-3	17 1/2	2.72	5.10	250	467
78	87	63	11-3	11 1/2	21-6	7	9-7	10 1/2	2.85	5.34	275	531
84	95	67	11-9	8 1/2	22-10	9	9-11	12 1/2	3.08	5.79	290	547
90	103	71	12-7	7 1/2	24-2	11	10-3	15	3.30	6.21	321	591
96	112	75	13-4	12	25-8	8	10-7	16 1/2	3.52	6.65	314	606
102	117	79	13-9	8 1/2	26-6	7	10-10	9 1/2	3.63	6.86	356	672
108	128	83	14-8	8	28-4	12	11-3	11 1/2	3.96	7.51	376	698

HEADWALL FOR FLEXIBLE PIPE ARCH

DIMENSIONS

EQUIV. Ba IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X1 FT.-IN.	A1 IN.	y FT.-IN.	B IN.	CONCRETE		STEEL ■			
									SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.		
66	75	6-1	4-7	10-10	10 1/2	10	19-2	11	8-11	15 1/2	2.52	4.70	232	424
72	81	7-0	5-1	11-1	10	21-0	10	9-5	9	12	2.80	5.25	282	509
84	93	7-11	5-7	11-11	9 1/2	22-10	9	9-11	12 1/2	3.08	5.79	291	540	
90	100	8-10	6-1	12-10	9	24-8	8	10-5	15 1/2	3.36	6.33	309	622	
102	111	9-9	6-7	13-9	8 1/2	26-6	7	10-11	9 1/2	3.63	6.86	379	673	
108	120	10-10	7-1	14-11	9 1/2	28-10	9	11-5	12 1/2	4.05	7.67	377	711	
120	132	11-10	7-7	15-10	9	30-8	8	11-11	15 1/2	4.36	8.28	395	731	
132	142	12-10	8-4	16-10	9	32-8	8	12-8	11	4.75	9.03	441	839	
144	151	14-1	8-9	18-9	10 1/2	35-2	11	13-1	13 1/2	5.17	9.86	448	931	
150	15-4	9-3	19-4	12	37-8	8	13-7	16 1/2	5.69	10.88	490	953		
159	15-10	9-10	19-10	9	38-8	8	14-2	11	5.89	11.25	534	1018		

HEADWALL FOR STRUCTURAL PLATE ARCH

85	80	75	70	65	60	55	50	45	40	35	30
1.004	1.015	1.035	1.064	1.103	1.155	1.221	1.305	1.414	1.556	1.743	2.000

SKEW FACTOR TABLE

GENERAL NOTES

1. CONCRETE SHALL BE CLASS B.
2. HEADWALL MUST BE PERPENDICULAR TO THE PIPE & UNLESS OTHERWISE SHOWN ON THE PLANS, TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
3. FOR WINGWALL DETAILS, SEE STANDARD PLAN M-601-20.
4. VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED $\frac{3}{4}$ IN.
6. ALL REINFORCING BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.

▲ WHEN TWO OR MORE PIPES ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE $\frac{1}{2}$ PIPE DIAMETER APART, OR $\frac{1}{2}$ IN. INSIDE SPAN APART, OR 3 FT. APART (INCLUDING WALL THICKNESS), WHICHEVER IS LESS.

■ ADD $0.89 \times (X \text{ OR } X_1)$ (LB.) WHEN APRON IS REQUIRED.

DIMENSIONS

QUANTITIES

EQUIV. Ba IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X ₁ FT.-IN.	A ₁ IN.	Y FT.-IN.	B IN.	CONCRETE		STEEL ■	
									SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.
72	81	59	10-3	8 $\frac{1}{2}$	20-6	7	9-3	17 $\frac{1}{2}$	2.72	5.10	250	467
78	87	63	11-3	11 $\frac{1}{2}$	21-6	7	9-7	10 $\frac{1}{2}$	2.85	5.34	275	531
84	95	67	11-9	12-7	22-10	9	9-11	12 $\frac{1}{2}$	3.08	5.79	290	547
90	103	71	12-7	7 $\frac{1}{2}$	24-2	11	10-3	15	3.30	6.21	321	591
96	112	75	13-4	12	25-8	8	10-7	16 $\frac{1}{2}$	3.52	6.65	314	606
102	117	79	13-9	8 $\frac{1}{2}$	26-6	7	10-10	9 $\frac{1}{2}$	3.63	6.86	356	672
108	128	83	14-8	8	28-4	12	11-3	11 $\frac{1}{2}$	3.96	7.51	376	698

HEADWALL FOR FLEXIBLE PIPE ARCH

DIMENSIONS

QUANTITIES

EQUIV. Ba IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X ₁ FT.-IN.	A ₁ IN.	Y FT.-IN.	B IN.	CONCRETE		STEEL ■			
									SGL CU. YD.	DBL CU. YD.	SGL LBS.	DBL LBS.		
66	75	6-1	4-7	10-10	10 $\frac{1}{2}$	10	19-2	11	8-11	15 $\frac{1}{2}$	2.52	4.70	232	424
72	81	7-0	5-1	11-1	10	21-0	10	9-5	9	10-9	2.80	5.25	282	509
84	93	7-11	5-7	11-11	9 $\frac{1}{2}$	22-10	9	9-11	12 $\frac{1}{2}$	3.08	5.79	291	540	
90	83	8-10	6-7	12-10	9	24-8	8	10-5	15 $\frac{1}{2}$	3.36	6.33	309	622	
102	101	9-9	6-7	13-9	9 $\frac{1}{2}$	26-6	7	10-11	9 $\frac{1}{2}$	3.63	6.86	379	673	
110	111	10-11	7-1	14-11	11 $\frac{1}{2}$	28-10	9	11-5	12 $\frac{1}{2}$	4.05	7.67	377	711	
120	132	11-10	7-7	15-10	9	30-8	8	11-11	15 $\frac{1}{2}$	4.36	8.28	395	731	
132	142	12-10	8-4	16-10	9	32-8	8	12-8	11	4.75	9.03	441	839	
144	141	14-1	8-9	18-9	10 $\frac{1}{2}$	35-2	11	13-1	13 $\frac{1}{2}$	5.17	9.86	448	931	
150	15-4	9-3	19-4	12	37-8	8	13-7	16 $\frac{1}{2}$	5.69	10.88	490	953		
159	15-10	9-10	19-10	9	38-8	8	14-2	11	5.89	11.25	534	1018		

HEADWALL FOR STRUCTURAL PLATE ARCH

85	80	75	70	65	60	55	50	45	40	35	30
1.004	1.015	1.035	1.064	1.103	1.155	1.221	1.305	1.414	1.556	1.743	2.000

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DIMENSIONS

DIMENSIONS										QUANTITIES					
EQUIV. B.O. IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X ₁ FT.-IN.	A ₁ IN.	Y FT.-IN.	B IN.	IN.	CONCRETE			STEEL ■		
										SGL CU. YD.	DBL CU. YD.	SGL LBS.	SGL LBS.	DBL LBS.	
72	81	59	10-3	8 1/2	20-6	7	9-3	17 1/2	10 1/2	2.85	5.34	250	467	275	531
78	87	63	11-3	11 1/2	21-6	7	9-7	10 1/2	10 1/2	2.85	5.34	250	467	275	531
84	95	67	11-9	8 1/2	22-10	9	11-11	12 1/2	12 1/2	3.08	5.79	290	547	321	597
90	103	71	12-7	7 1/2	24-2	11	10-3	15	3.30	6.21	321	597			
96	112	75	13-4	12	25-8	8	10-7	16 1/2	3.52	6.65	314	606			
102	117	79	13-9	8 1/2	26-6	7	10-11	9 1/2	3.63	6.86	356	672			
108	128	83	14-8	8	28-4	12	11-3	11 1/2	3.96	7.51	376	698			

HEADWALL FOR FLEXIBLE PIPE ARCH

DIMENSIONS

DIMENSIONS										QUANTITIES					
EQUIV. B.O. IN.	SPAN FT.-IN.	RISE FT.-IN.	X FT.-IN.	A IN.	X ₁ FT.-IN.	A ₁ IN.	Y FT.-IN.	B IN.	IN.	CONCRETE			STEEL ■		
										SGL CU. YD.	DBL CU. YD.	SGL LBS.	SGL LBS.	DBL LBS.	
66	75	6-1	4-7	10-10	10 1/2	10	19-2	11	8-11	15 1/2	2.52	4.70	232	424	
75	7-0	5-1	5-1	11-11	10	21-0	10	9-5	9 1/2	2.80	5.25	282	509		
84	7-11	5-7	11-11	9 1/2	9	22-10	9	9-11	12 1/2	3.08	5.79	291	540		
93	8-10	6-7	12-11	9	24-8	8	10-5	15 1/2	3.36	6.33	309	622			
102	9-9	6-7	13-9	9 1/2	26-6	7	10-11	9 1/2	3.63	6.86	379	673			
111	10-11	7-1	14-11	8 1/2	28-10	9	11-5	12 1/2	4.05	7.67	377	711			
120	11-10	7-7	15-10	9	30-8	8	11-11	15 1/2	4.36	8.28	395	731			
132	12-10	8-4	16-10	9	32-8	8	12-8	11	4.75	9.03	441	839			
141	14-1	8-9	18-9	10 1/2	35-2	11	13-1	13 1/2	5.17	9.86	448	931			
150	15-4	9-3	19-4	12	37-8	8	13-7	16 1/2	5.69	10.88	490	953			
159	15-10	9-10	19-10	9	38-8	8	14-2	11	5.89	11.25	534	1018			

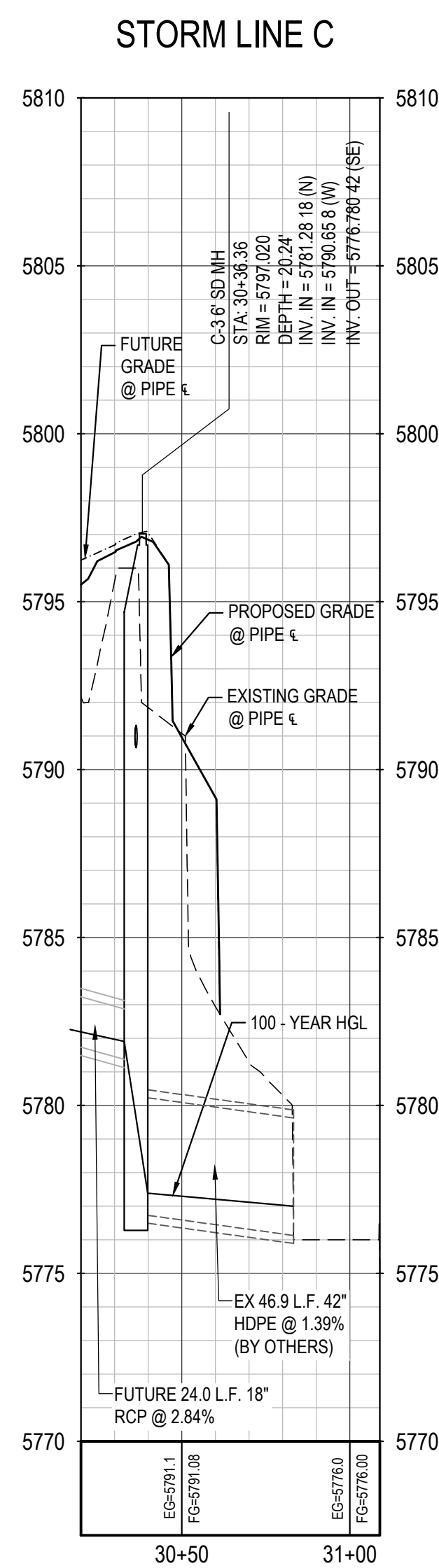
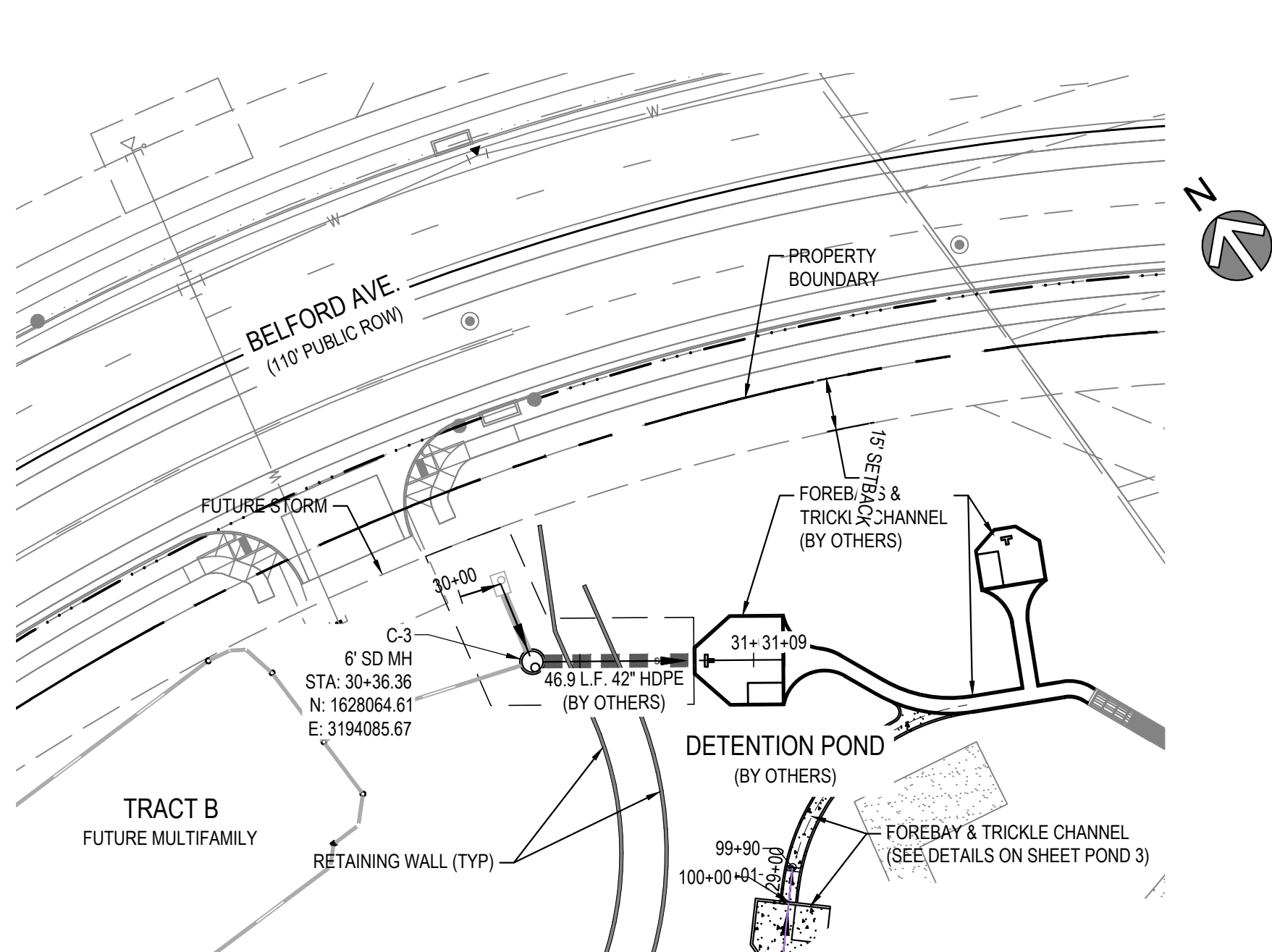
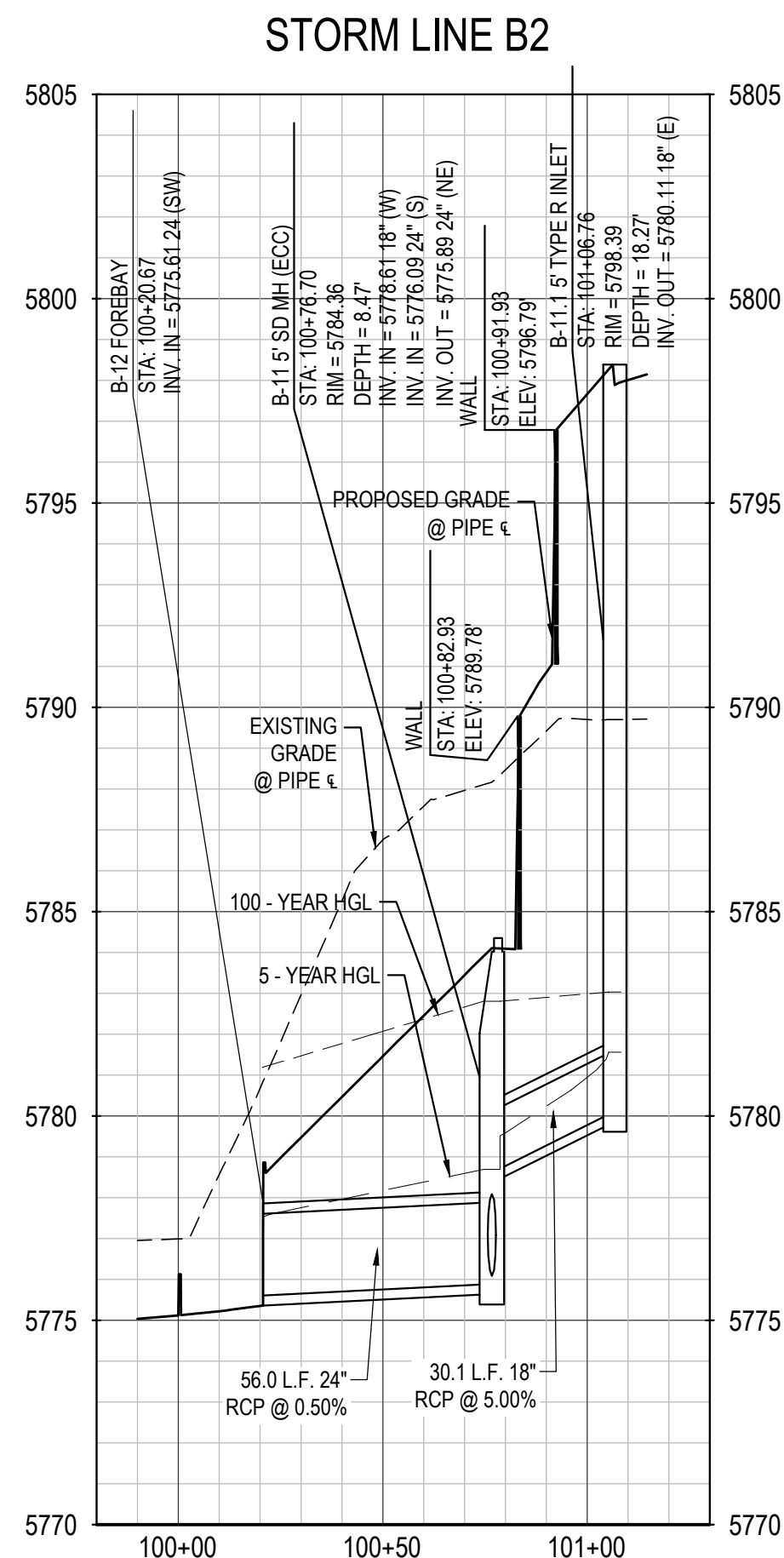
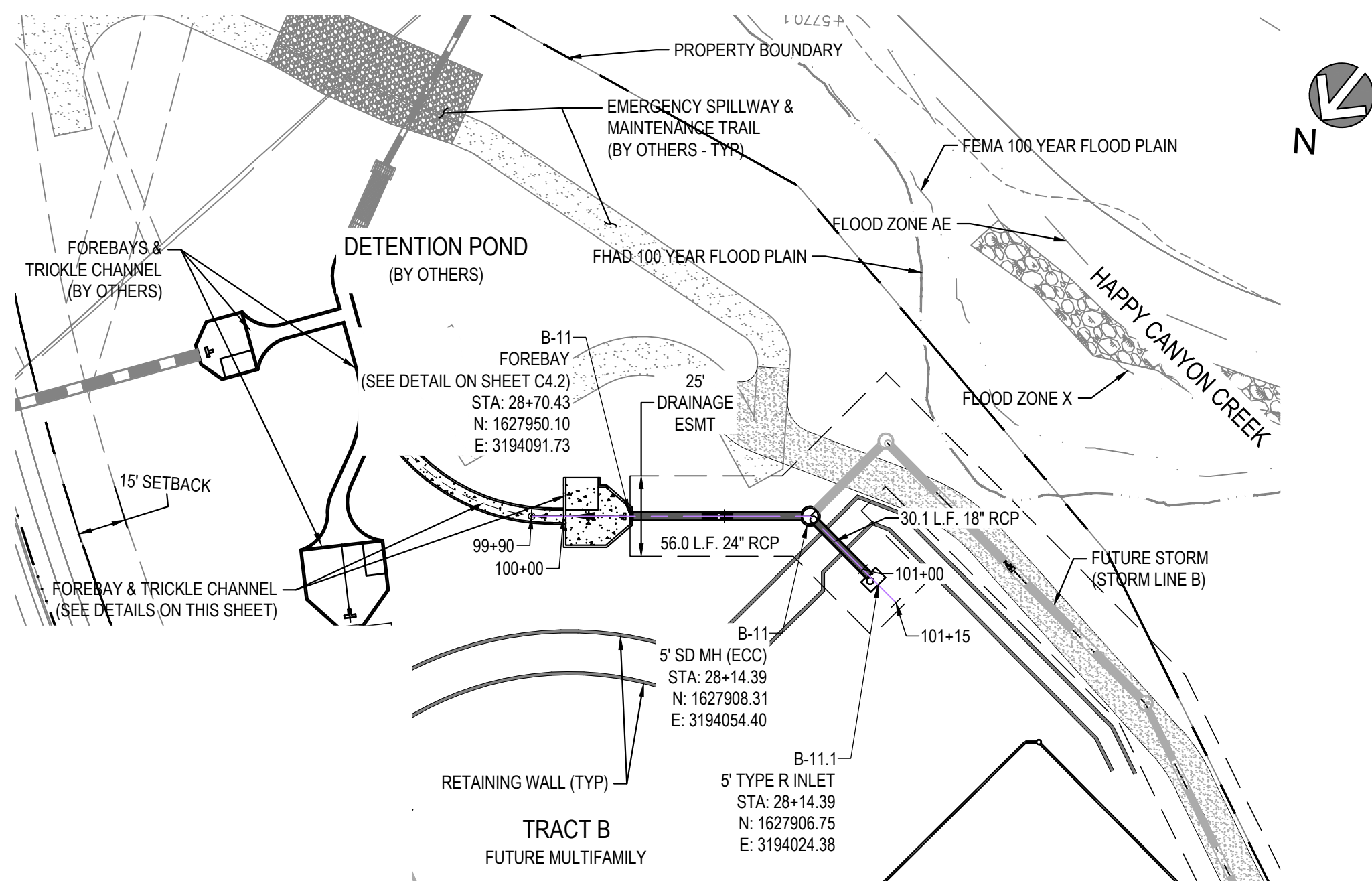
HEADWALL FOR STRUCTURAL PLATE ARCH

85	80	75	70	65	60	55	50	45	40	35	30
1.004	1.015	1.035	1.064	1.103	1.155	1.221	1.305	1.414	1.556	1.743	2.000

SKEW FACTOR TABLE



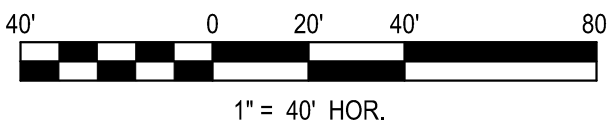
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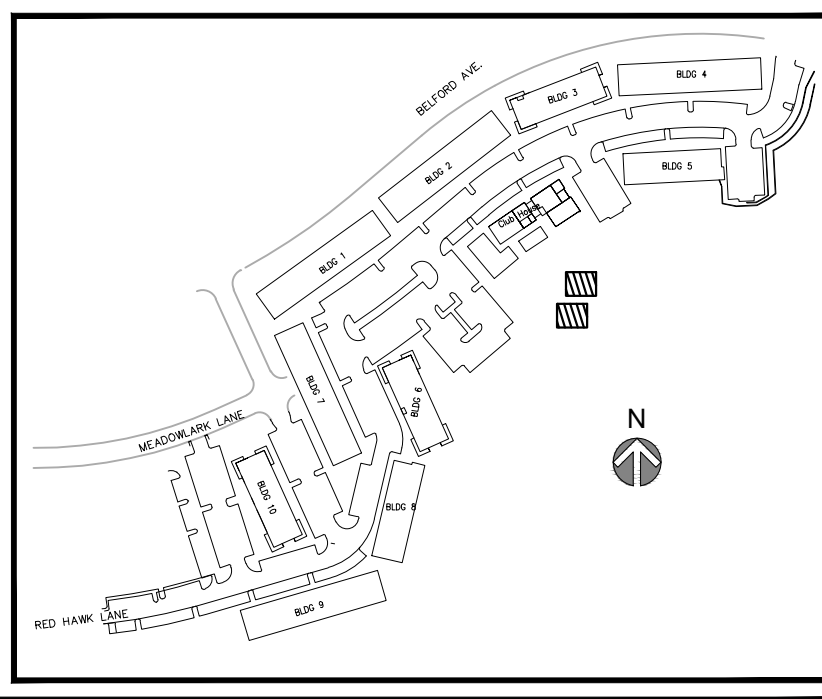
The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

This review does not constitute approval of any private on-site improvements which may be shown. Construction cannot commence until all required drainage/traffic report(s), final development plan(s), special review(s), grading permit, and/or other permits are complete, approved and on file with the Town of Parker.

 10/26/2022
Town of Parker, Director of Engineering Date

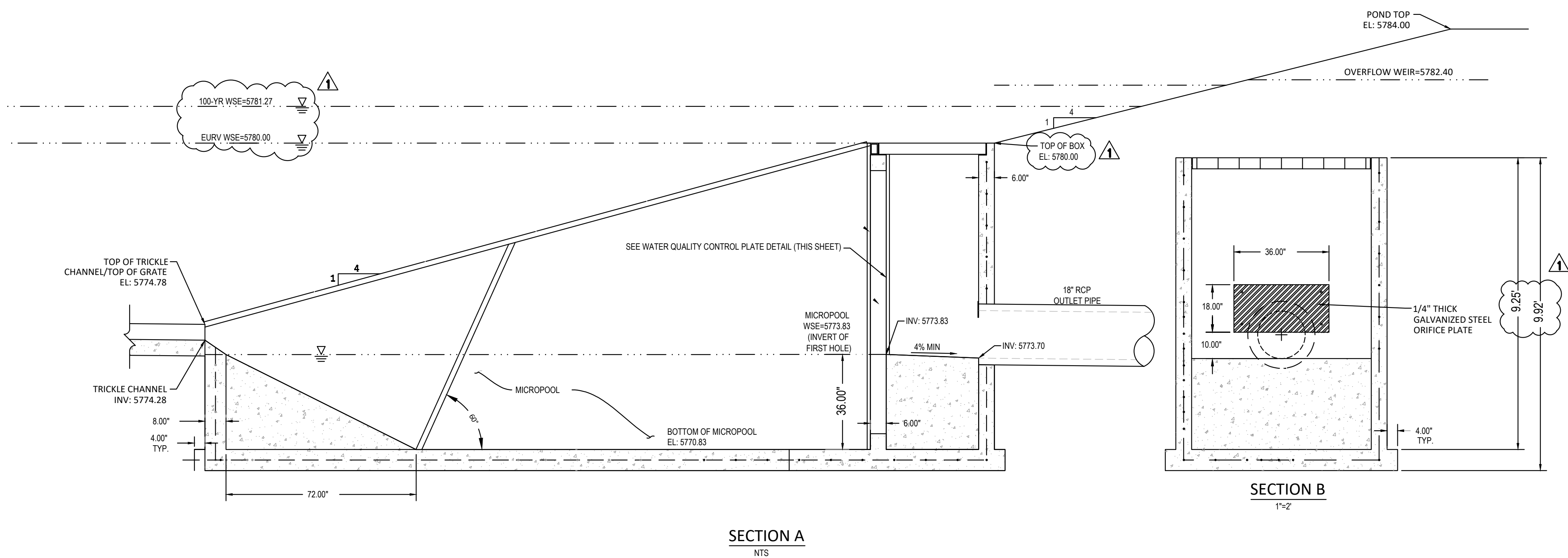


- NOTES:**
1. ALL STATIONING & PIPE LENGTHS ARE TO CENTER OF STRUCTURE.
 2. ALL RCP TO BE CLASS III UNLESS SPECIFIED OTHERWISE.
 3. CONTRACTOR TO VERIFY LOCATION/ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 4. ALL MANHOLES TO HAVE 48" INNER DIAMETER.
 5. DETENTION POND AND OUTFALL TO BE CONSTRUCTED BY OTHERS.
 6. ALL STORM SEWER IS PRIVATE UNLESS OTHERWISE NOTED.



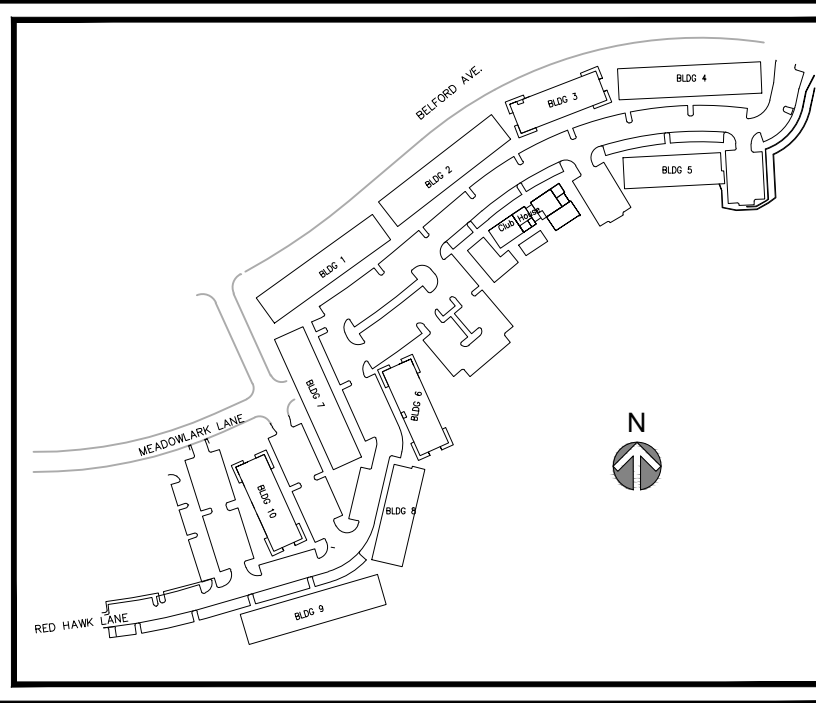
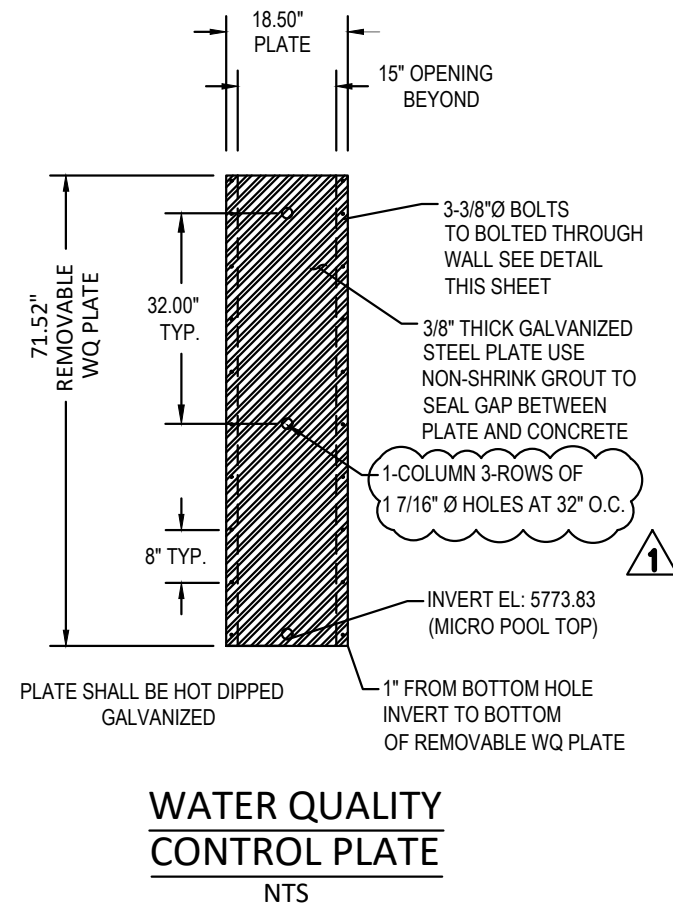


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NOTES:

1. OUTLET STRUCTURE ORIGINAL DESIGN COMPLETED BY MANHARD. REFER TO APPROVED MANHARD DESIGN PLANS FOR COMPLETE OUTLET STRUCTURE DETAILS. THE APPLICABLE REVISIONS SHOWN ARE THE DESIGN REVISIONS COMPLETED BY MERRICK & COMPANY.



The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

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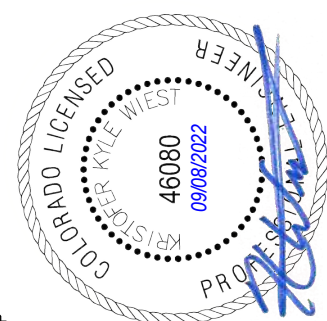
 10/26/2022
Town of Parker, Director of Engineering Date

COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

POND - STRM OUTLET STRUCTURE

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR
1	COMPARK VILLAGE SOUTH, F1 - BELFORD AVE SITE PLAN/AMD WQ PLATE	03/24/2022	KB	KB	KW

TITLE

FOR AND ON BEHALF OF MERRICK & COMPANY



CENTURY
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5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111
303-751-0741
www.merrick.com

File Location: Q:\DEN\Projects\0950-00 Compark South\CAD\CDs\PI\0950-EC.dwg Plot Date: 9/12/2022 4:11 PM Last Saved By: KBLACK



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10/26/2022
Date

	(SF)	SILT FENCE
	(DD)	DIVERSION DITCH
	(RS)	ROCK SOCK
	(PCOS)	INLET PROTECTION CURB ON SUMP
	(LOC)	LIMITS OF CONSTRUCTION
	(SSA)	STABILIZED STAGING AREA
	(ECB)	EROSION CONTROL BLANKET
	(SCL)	SEDIMENT CONTROL LOG
	(SMC)	SEEDING, MULCHING AND CRIMPING
	(VTC)	VEHICLE TRACKING CONTROL
	(CWA)	CONCRETE WASHOUT AREA
	(TSB)	SEDIMENT BASIN
	(DTC)	SEDIMENT BASIN
	(STP)	SIDEWALK TRANSITION PROTECTION
	(MWP)	MASON WORK PROTECTION PROTECTION
	(DP)	DETENTION POND PROTECTION
	(PCOG)	INLET PROTECTION CURB ON GRADE

1. INTERIOR SILT FENCE SHOULD BE PLACED BY THE CONTRACTOR TO INTERMITTENTLY INTERCEPT GROUND FLOW. LOCATION TO BE BASED ON SITE CONDITIONS.
2. REFER TO EROSION CONTROL DETAILS (C8.0).
3. OWNER/CONTRACTOR MUST OBTAIN THE CPDS GENERAL PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, THE TOWN OF PARKER'S "STANDARD EROSION AND SEDIMENT CONTROL CONSTRUCTION PLAN NOTES, FEBRUARY 2005" TAKE PRECEDENCE OVER THE "GENERAL EROSION CONTROL NOTES" WHENEVER THERE IS A QUESTION OR CONFLICT IN THE NOTES.
5. THE OWNER/CONTRACTOR MUST ADHERE AND ABIDE TO THE RULES AND REGULATIONS IMPOSED BY THE CITY OF LOVELAND.
6. SLOPE PROTECTION SHOULD BE ADDED TO ALL AREAS OF SLOPES GREATER THAN 4:1. CONTRACTOR TO USE "TRACKED" VEHICLE, RUN PERPENDICULAR TO SLOPE TO INHIBIT RILL/GULLEY EROSION, CONTRACTOR MAY USE OTHER WINDROW-TYPE METHODS AS APPROVED BY ENGINEER. TYPICAL ALL SLOPES, REPEAT AS NECESSARY UNTIL LANDSCAPING IS INSTALLED.
7. ALL VEHICLE SPEEDS SHALL BE LIMITED TO A MAXIMUM OF 25 MILES PER HOUR.
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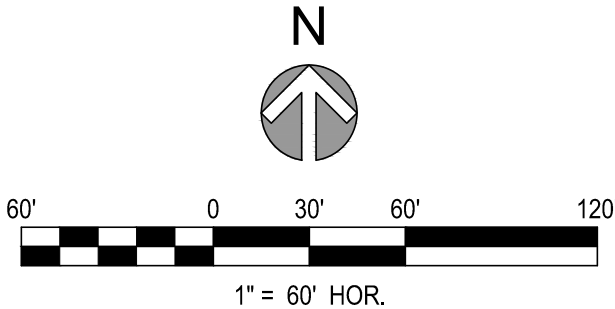
31

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Know what's below.
Call before you dig.



TEMPORARY BMP LEGEND:

- | | | |
|--|------|----------------------------------|
| | SF | SILT FENCE |
| | DD | DIVERSION DITCH |
| | RS | ROCK SOCK |
| | PCOS | INLET PROTECTION CURB ON SUMP |
| | LOC | LIMITS OF CONSTRUCTION |
| | SSA | STABILIZED STAGING AREA |
| | ECB | EROSION CONTROL BLANKET |
| | SCL | SEDIMENT CONTROL LOG |
| | SMC | SEEDING, MULCHING AND CRIMPING |
| | VTC | VEHICLE TRACKING CONTROL |
| | CWA | CONCRETE WASHOUT AREA |
| | TSB | SEDIMENT BASIN |
| | DTC | SEDIMENT BASIN |
| | STP | SIDEWALK TRANSITION PROTECTION |
| | MWP | MASON WORK PROTECTION PROTECTION |
| | DP | DETENTION POND PROTECTION |
| | PCOG | INLET PROTECTION CURB ON GRADE |

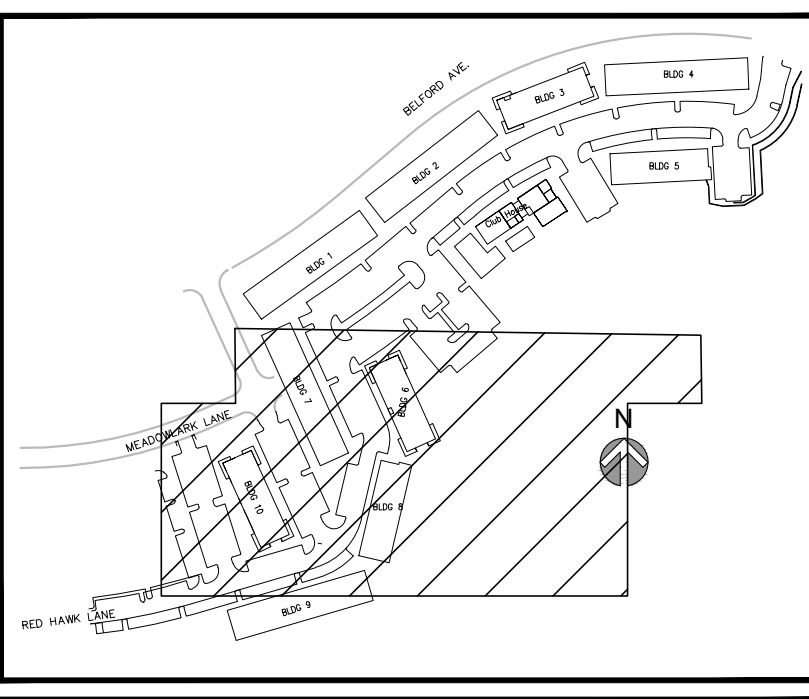
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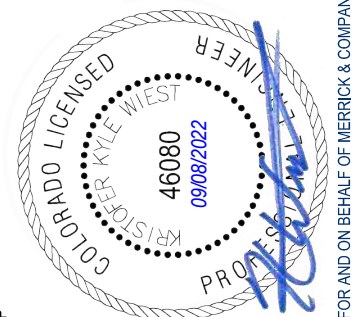
Town of Parker, Director of Engineering
Date 10/26/2022



REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

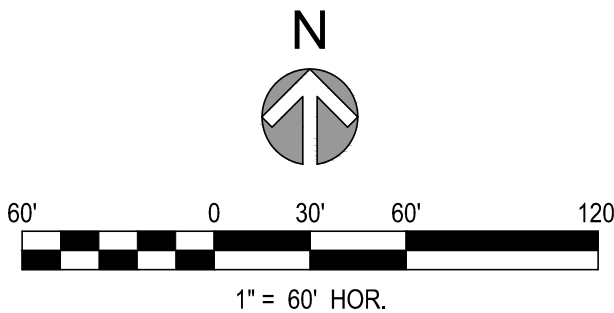
COMPARK VILLAGE SOUTH
PRIVATE IMPROVEMENT
CONSTRUCTION PLANS

INITIAL EROSION CONTROL 2

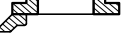


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	(SF)	SILT FENCE
	(DD)	DIVERSION DITCH
	(RS)	ROCK SOCK
	(IPCOG)	INLET PROTECTION CURB ON SUMP
	(LOC)	LIMITS OF CONSTRUCTION
	(SSA)	STABILIZED STAGING AREA
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	(STP)	SIDEWALK TRANSITION PROTECTION
	(MWP)	MASON WORK PROTECTION PROTECTION
	(DP)	DETENTION POND PROTECTION
	(IPCOG)	INLET PROTECTION CURB ON GRADE

- NOTES:
- 
- INLET PROTECTION CURB ON GRADE
- (CPCO)
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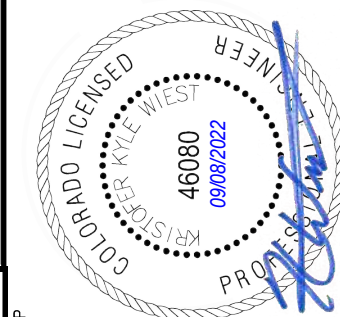
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 10/26/2022
Town of Parker, Director of Engineering Date



COMPARK VILLAGE SOUTH

PRIVATE IMPROVEMENT CONSTRUCTION PLANS



JOB NUMBER 65120950 DATE 7/11/2022 SHEET C5.2 33	PE STAMP 
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Know what's below.
Call before you dig.



MATCH LINE SEE SHEET C5.2

TEMPORARY BMP LEGEND:

- SF SILT FENCE
- DD DIVERSION DITCH
- RS ROCK SOCK
- PCOS INLET PROTECTION CURB ON SUMP
- LOC LIMITS OF CONSTRUCTION
- SSA STABILIZED STAGING AREA
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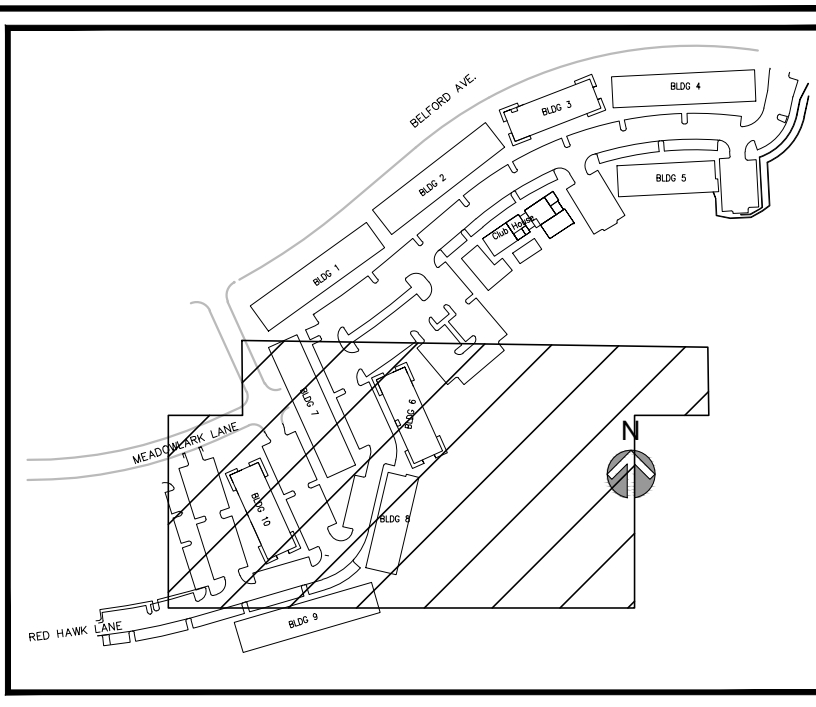
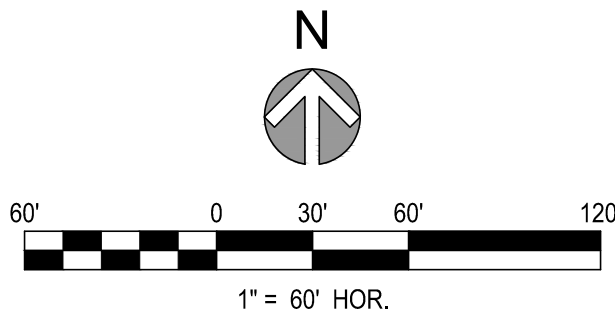
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Town of Parker, Director of Engineering
Date 10/26/2022



REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

COMPARK VILLAGE SOUTH
PRIVATE IMPROVEMENT
CONSTRUCTION PLANS
INTERIM FINAL EROSION CONTROL 2



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CD

CHECK DAM

CF

CONSTRUCTION FENCE

CP

CULVERT PROTECTION

CWA

CONCRETE WASHOUT AREA

D

DEWATERING

DD

DIVERSION DITCH

DP

DETENTION POND PROTECTION

DTC

DEBRIS TRASH CONTROL

ECB

EROSION CONTROL BLANKET

IPAN

INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT

IPAP

INLET PROTECTION FOR AREA INLETS IN PAVEMENT

IPCOG

INLET PROTECTION, CURB ON-GRADE, TYPE R INLET

IPCOS

INLET PROTECTION, CURB ON SUMP, TYPE R INLET


Parker COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

1 OF 3
Oct. 2013

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LP

LOT PROTECTION

MWP

MASONRY WORK PROTECTION

PTP

PORTABLE TOILET PROTECTION

RCSC

ROUGH CUT STREET CONTROL

RS

ROCK SOCK

RSS

ROCK SOCK IN SWALE

SB

STRAW BALE

SCL

SEDIMENT CONTROL LOGS

SF

SILT FENCE

SMC

SEEDING, MULCHING AND CRIMPING

SR

SURFACE ROUGHING

SSA

STABILIZED STAGING AREA

STP

SIDEWALK TRANSITION PROTECTION


 Town of
Parker COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

2 OF 3

Oct. 2013

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TI

TEMPORARY IRRIGATION

TSB

TEMPORARY SEDIMENT BASIN

VTC

VEHICLE TRACKING CONTROL

Town of
Parker | COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

3 OF 3
Oct. 2013

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1. GRADING, DRILLING, CLEARING, EXCAVATING, BACK-FILLING, SOIL STRIPPING, SOIL IMPORTING OR EXPORTING OR ANY OTHER FORM OF SOIL DISTURBANCE SHALL NOT COMMENCE UNTIL A TOWN OF PARKER GRADING/EXCAVATION PERMIT HAS BEEN ISSUED.
2. THE TOWN OF PARKER GRADING/EXCAVATION PERMIT IS VALID FOR A PERIOD OF 2 YEARS FROM THE DATE OF ISSUANCE. ANY LAPSE IN PERMIT COVERAGE MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND/OR FINES.
3. ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED ACCORDING TO THE CBMP PLAN INSTALLATION NOTES AND DETAILS AND/OR PERMITTED VARIANCES. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS ARE SUBJECT TO INSPECTION BY THE TOWN'S INSPECTOR. THE TOWN OF PARKER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS, WORKMANSHIP AND/OR INSTALLATION METHODS THAT DO NOT CONFORM TO THE CBMP PLAN AND/OR PERMITTED VARIANCES.
4. THE EROSION CONTROL SUPERVISOR SHALL REVISE OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES IF IT BECOMES APPARENT THAT THE ORIGINAL PLAN IS INADEQUATE, OR AS A RESULT OF DEFICIENCIES IDENTIFIED DURING INSPECTIONS PERFORMED BY THE TOWN'S INSPECTOR.
5. THE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) MAY BE REQUIRED OF THE EROSION CONTROL SUPERVISOR, PROPERTY OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS AT ANY TIME THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION AND/OR SUBSEQUENT REVEGETATION PERIOD.
6. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE NOTICE OF NUISANCE REPORTS (a.k.a. CONSTRUCTION SITE RUNOFF CONTROL INSPECTION REPORTS), APPROVED CBMP PLAN(S) AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
7. THE EROSION CONTROL SUPERVISOR SHALL BE READILY AVAILABLE TO DISCUSS AND CORRECT ANY PROBLEMS THAT MAY ARISE RELATING TO GRADING, EROSION AND SEDIMENT CONTROL.
8. IF IT IS ANTICIPATED THAT ALL OR A PORTION OF THE PROJECT WILL OCCUR DURING SEASONS SUSCEPTIBLE TO SNOWFALL, THE USE OF CERTAIN EROSION AND SEDIMENT CONTROL BMP'S ADJACENT TO PUBLIC ROADWAYS MAY NEED TO BE RECONSIDERED DUE TO THE NATURE OF SNOW REMOVAL OPERATIONS. AN APPROVED ALTERNATIVE MAY BE NECESSARY TO MINIMIZE DAMAGE FROM THESE OPERATIONS. THE TOWN OF PARKER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO ANY BMP'S AS A RESULT OF SNOW PLOWING AND SNOW REMOVAL.
9. AREAS OF LAND DISTURBANCE EQUAL TO 40 ACRES OR GREATER SHALL NOT BE EXPOSED FOR MORE THAN 30 CONSECUTIVE DAYS WITHOUT TEMPORARY OR PERMANENT STABILIZATION.
10. AUTHORIZED EXEMPTIONS MAY BE ALLOWED TO THE 40-ACRE LIMIT FOR REMOVAL AND STORAGE OF CUT MATERIAL WHERE (A) GEOTECHNICAL LIMITATIONS RESTRICT THE USE OF TEMPORARY OR PERMANENT STABILIZATION OF THE STORED MATERIAL (E.G., SWELLING SOILS, ROCK) AND (B) WHEN THE OWNER CAN DEMONSTRATE THAT THE 40-ACRE LIMIT IS PHYSICALLY AND/OR FINANCIALLY IMPRACTICABLE. FOR SITES GRANTED THIS EXEMPTION, A PHASING AND EARTHWORK QUANTITIES PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AND APPROVED PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. SUBMITTAL REQUIREMENTS INCLUDE:
 - (I) PHASING PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
 - (II) EARTHWORK QUANTITY PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
 - (III) BMP PLAN SHOWING SPECIFIC EROSION AND SEDIMENT CONTROLS FOR EACH PHASE.

GEN NOTES
1 OF 4
Oct. 2013

 **Parker** COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

11. ANY EROSION AND SEDIMENT CONTROL BMPs THAT ARE DAMAGED OR IN NEED OF MAINTENANCE OR REPLACEMENT SHALL BE CORRECTED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
12. ALL DEFICIENCIES LISTED ON THE NOTICE OF NUISANCE FORM SHALL BE COMPLETED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES. ALL REQUIRED ACTIONS MUST BE IN THE CORRECTED FORM DURING THE FOLLOW-UP INSPECTION.
13. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY.
14. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.
15. ALL TRASH RECEPTACLES ON SITE SHALL BE FREE OF HOLES, CRACKS, GAPS, AND/OR OTHER PERMEABLE AREAS THAT MAY ALLOW FOR THE DISCHARGE OF POLLUTANTS.
16. ALL TRASH RECEPTACLES ON SITE SHALL BE EMPTIED AT A FREQUENCY AS TO ENSURE THAT THE TRASH REMAINS CONFINED TO THE RECEPTACLE.
17. ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.
18. ALL PORTABLE TOILETS SHALL BE STAKED DOWN AT ALL TIMES USING U-SHAPED REBAR STAKES. THE PORTABLE TOILETS SHALL ALSO BE PLACED A MINIMUM DISTANCE OF 10 FEET FROM ALL IMPERVIOUS SURFACES, INCLUDING, BUT NOT LIMITED TO STREETS CURBS, GUTTERS, SIDEWALKS AND PARKING LOTS.
19. THE EROSION CONTROL SUPERVISOR SHALL MAINTAIN STRICT ADHERENCE TO THE LIMITS OF CONSTRUCTION AND PROPERTY LIMITS FOR ALL MATERIALS, VEHICLES AND EQUIPMENT. FAILURE TO ABIDE BY THIS REQUIREMENT MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
20. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED, SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
21. NO PERMANENT SLOPES GREATER THAN 3:1 ARE ALLOWED.
22. ALL PERMANENT SLOPES STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) SHALL REQUIRE EROSION CONTROL BLANKET(S). TEMPORARY SLOPES IN TEMPORARY SEDIMENT BASINS THAT ARE STEEPER THAN 4:1 MAY REQUIRE EROSION CONTROL BLANKETS.
23. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ADVERSE IMPACTS THAT OCCUR TO NEIGHBORING PROPERTIES. THE EROSION CONTROL SUPERVISOR MUST OBTAIN PERMISSION FROM LAND OWNERS PRIOR TO ENTERING SUCH PROPERTY.
24. A WATER SOURCE SHALL BE AVAILABLE ONSITE DURING CONSTRUCTION ACTIVITIES, AND UTILIZED TO MINIMIZE FUGITIVE DUST. ALTERNATIVE BMPs MAY BE REQUIRED IF INITIAL ATTEMPTS TO SUPPRESS DUST ARE UNSUCCESSFUL.

NO CHANGES ARE TO BE MADE TO THE DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

25. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS, INCLUDING CONCRETE WASHOUT WATER, WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDES BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER, DRY CULVERTS OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PER 25-8-601, AND THE TOWN OF PARKER. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AND THE CDPHE. SPILLS THAT POSE AN IMMEDIATE SAFETY HAZARD SHALL BE REPORTED TO 911.
26. THE CLEANING OF CONCRETE TRUCKS AND EQUIPMENT IS RESTRICTED TO THE APPROVED CONCRETE WASHOUT LOCATION ON THE JOB SITE. CONCRETE WASH WATER MUST NOT BE DISCHARGED TO STATE WATERS OR STORM SEWER SYSTEMS.
27. VEHICLE AND EQUIPMENT DEGREASING IS PROHIBITED ON THE JOB SITE.
28. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH THE TOWN'S INSPECTOR. A STATE PERMIT MAY BE REQUIRED FOR DEWATERING. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL APPLICABLE PERMITS.
29. HYDRAULIC SEEDING AND/OR HYDRAULIC MULCHING ARE ONLY ALLOWED IN AREAS UNDER TEMPORARY OR PERMANENT IRRIGATION OR FOR THE PURPOSE OF TEMPORARY SOIL STABILIZATION.
30. APPLICABLE CONSTRUCTION BMPs SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL LANDSCAPING HAS BEEN INSTALLED AND THE DESIRABLE VEGETATION HAS REACHED A POINT IN WHICH EROSION AND SEDIMENTATION IS NO LONGER A CONCERN AS DETERMINED BY THE TOWN'S INSPECTOR.
31. GRADING SECURITY RELEASE REQUIREMENTS:
 - 1) DEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H OR ITEM I (BELOW).
 - A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
 - B. UNIFORM PERENNIAL VEGETATION COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST SEVENTY PERCENT (70%) OF PRE-DISTURBANCE LEVELS.
 - C. ALL CBMPs HAVE BEEN PROPERLY REMOVED FROM THE SITE.
 - D. IF ANY EROSION IS PRESENT, IT IS INSIGNIFICANT AND IS NOT LEAVING THE SITE AND/OR LEADING INTO ANY ON-SITE DRAINAGE INFRASTRUCTURE THAT MAY CONVEY SURFACE WATER OFF SITE.
 - E. WEEDS REPRESENT NO MORE THAN FIFTY PERCENT (50%) OF THE TOTAL VEGETATION ON THE SITE.
 - F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
 - G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
 - H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
 - I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED

FOR THE APPLICABLE SITE OR ASSIGNMENT AS PROVIDED BY SECTION 11-10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION AT THE TIME OF CLOSING TO ENSURE THAT THE NEW SITE OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.

NO CHARGES ARE TO BE MADE TO THE DRAFTER WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

2) NONDEVELOPABLE PROPERTY IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H AND J, OR ITEMS I AND J (BELOW).

- A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
- B. ALL COMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
- C. EROSION IS NEGLIGIBLE, IF EVEN PRESENT
- D. THE VEGETATION REPRESENTS A PERENNIAL STAND OF A DENSE, UNIFORM SURFACE OF GRASS WITH NO GREATER THICKNESS THAN ONE (1) SQUARE FOOT THAT IS BARREN OF DESIRABLE VEGETATION. INFREQUENT, WIDELY SCATTERED AREAS WHERE NATIVE VEGETATION HAS NOT YET TAKEN HOLD MAY QUALIFY FOR ACCEPTANCE AT THE DISCRETION OF THE TOWN.
- E. WEEDS REPRESENT NO MORE THAN TEN PERCENT (10%) OF THE TOTAL VEGETATION ON SITE.
- F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
- G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
- H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATION OF PRESENT.
- I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED FOR THE APPLICABLE SITE OR THE GRADING PERMIT HAS BEEN ASSIGNED AS PROVIDED BY SECTION 11.10-11.19 OF THE TOWN OF PARKER MUNICIPAL CODE. THE PROPERTY OWNER'S OBLIGATION, AT THE TIME OF CLOSING ON THE SALE OF A SITE THAT IS SUBJECT TO A GRADING PERMIT, TO ENSURE THAT THE NEW PROPERTY OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.
- J. ALL KNOWN DRAINAGE ISSUES ASSOCIATED WITH THE PROJECT HAVE BEEN MITIGATED AND A SUFFICIENT AMOUNT OF TIME HAS PASSED TO ENSURE THAT SUCH ISSUES HAVE BEEN CORRECTED. THIS REQUIREMENT DOES NOT INCLUDE THOSE DRAINAGE ISSUES ORIGINATING ON RESIDENTIAL LOTS.

(D) NOXIOUS WEEDS MUST BE CONTROLLED AS PROVIDED UNDER STATE LAW AND SECTION 6.01.260 OF THE TOWN OF PARKER MUNICIPAL CODE. FAILURE TO CONTROL NOXIOUS WEEDS ON THE SITE MAY CONSTITUTE A NUISANCE, SUBJECT TO THE PENALTIES CONTAINED IN THE CODE.

DEFINITIONS:

DEVELOPABLE PROPERTY MEANS ANY LAND THAT HAS BEEN GRADED AND IS PART OF A PLATTED LOT OR PLATTED TRACT OF RECORD THAT WAS PLATTED FOR FUTURE DEVELOPMENT, INCLUDING RESIDENTIAL HOME OR COMMERCIAL PURPOSE IMPROVEMENTS.

NONDEVELOPABLE PROPERTY MEANS LAND THAT HAS BEEN GRADED AND WILL NOT BE FURTHER DISTURBED AS PART OF ANY FUTURE DEVELOPMENT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: PARKS, OPEN SPACE, HOMEOWNER ASSOCIATION OR BUSINESS ASSOCIATION PLATTED TRACTS, RETENTION PONDS.

32. FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS DESCRIBED IN THIS SECTION MAY RESULT IN THE ISSUANCE OF: A NOTICE OF INTENT TO ISSUE A STOP WORK ORDER, A STOP WORK ORDER AND/OR THE REMEDIES/PENALTIES DESCRIBED IN CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE.

33. ANY PERSON CONVICTED OF VIOLATING ANY PROVISION OF THE TOWN OF PARKER, GRADING & EARTH MOVEMENT SECTION OF THE MUNICIPAL CODE, SHALL BE GUILTY OF MISDEMEANOR AND, UPON CONVICTION, BE PENISHED BY A FINE OF NOT MORE THAN FOUR HUNDRED NINETEEN NINE DOLLARS (\$499.00) FOR EACH SEPARATE OFFENSE. EACH DAY A VIOLATION CONTINUES SHALL CONSTITUTE A SEPARATE OFFENSE. PARAGRAPH 30 OF THE TOWN OF PARKER MUNICIPAL CODE, REGARDING RESTITUTION OR ANY OTHER REMEDY TO PREVENT, ENJOIN, ABATE OR REMOVE THE VIOLATION, SHALL APPLY TO ANY VIOLATION OF VIOLATING CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE. SHALL ALSO APPLY TO THE TOWN OF PARKER FOR THE ABILITY TO BRING CIVIL ACTIONS TO RECOVER AS RESTITUTION IN MUNICIPAL COURT PROCEEDINGS OR IN A SEPARATE CIVIL ACTION.

34. THE TOWN OF PARKER RESERVES THE RIGHT TO ALLOW MODIFICATIONS AND SUBSTITUTIONS TO THE CBMP PLANETS AND DETAILS WHEN SUCH MODIFICATIONS AND SUBSTITUTIONS OFFER THE SAME LEVEL OF PROTECTION AS THE STANDARD REQUIREMENTS BASED UPON THE SPECIFIC SITUATION, AS DETERMINED BY TOWN STAFF. DUE TO THE INSIGNIFICANCE AND REGULARITY OF SUCH MODIFICATIONS AND SUBSTITUTIONS, THE APPROVAL OF SUCH VARIATIONS MAY NOT BE DOCUMENTED BY TOWN STAFF.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER

The drawing consists of two parts: a Plan View and a Section A-A.

Plan View: Shows a rectangular area filled with riprap. A vertical line with an arrow pointing right is labeled "FLOW". A horizontal line with an arrow pointing right is labeled "CHECK DAM". Three circular markers labeled "C" are positioned along the left side of the riprap area.

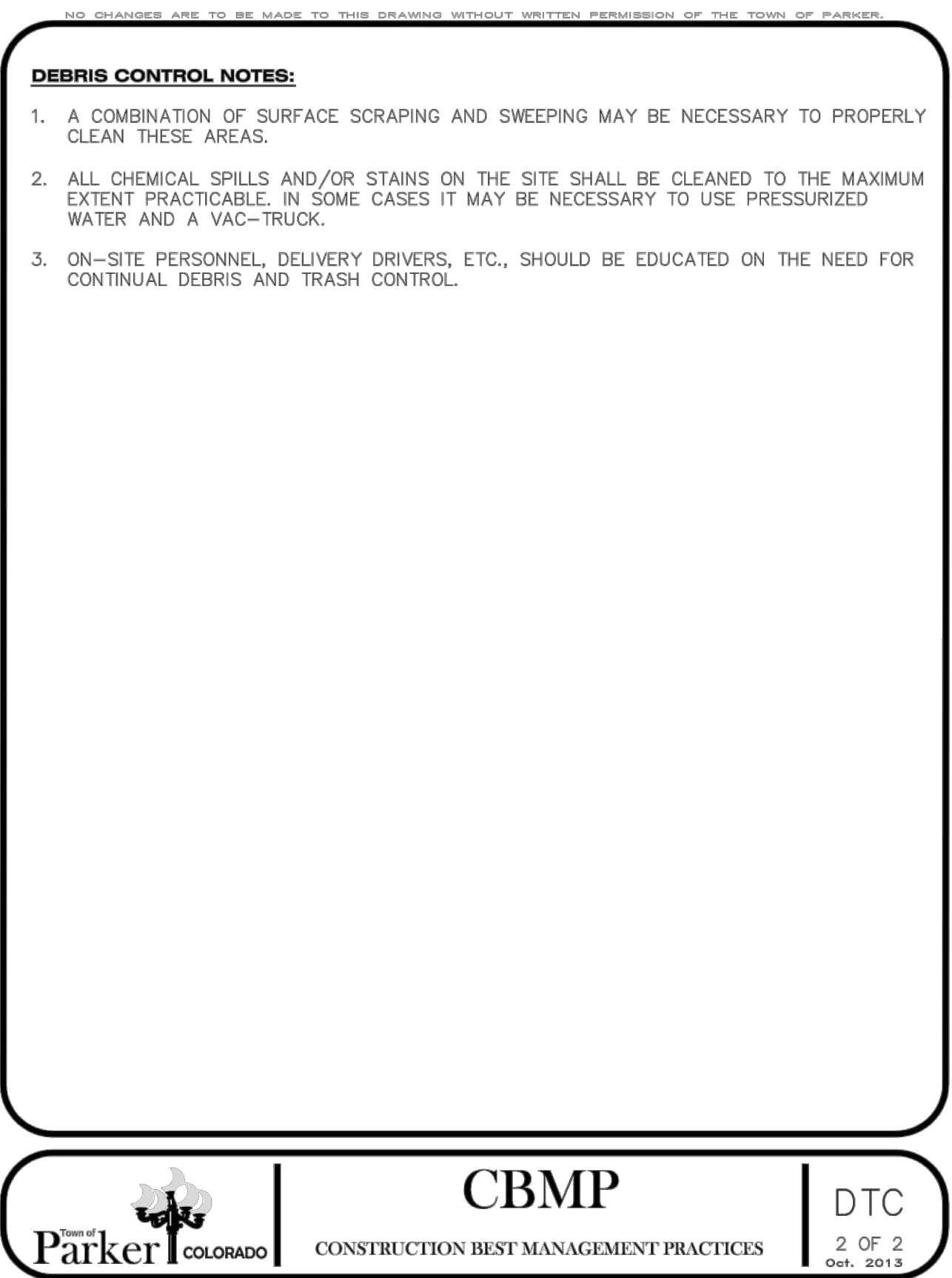
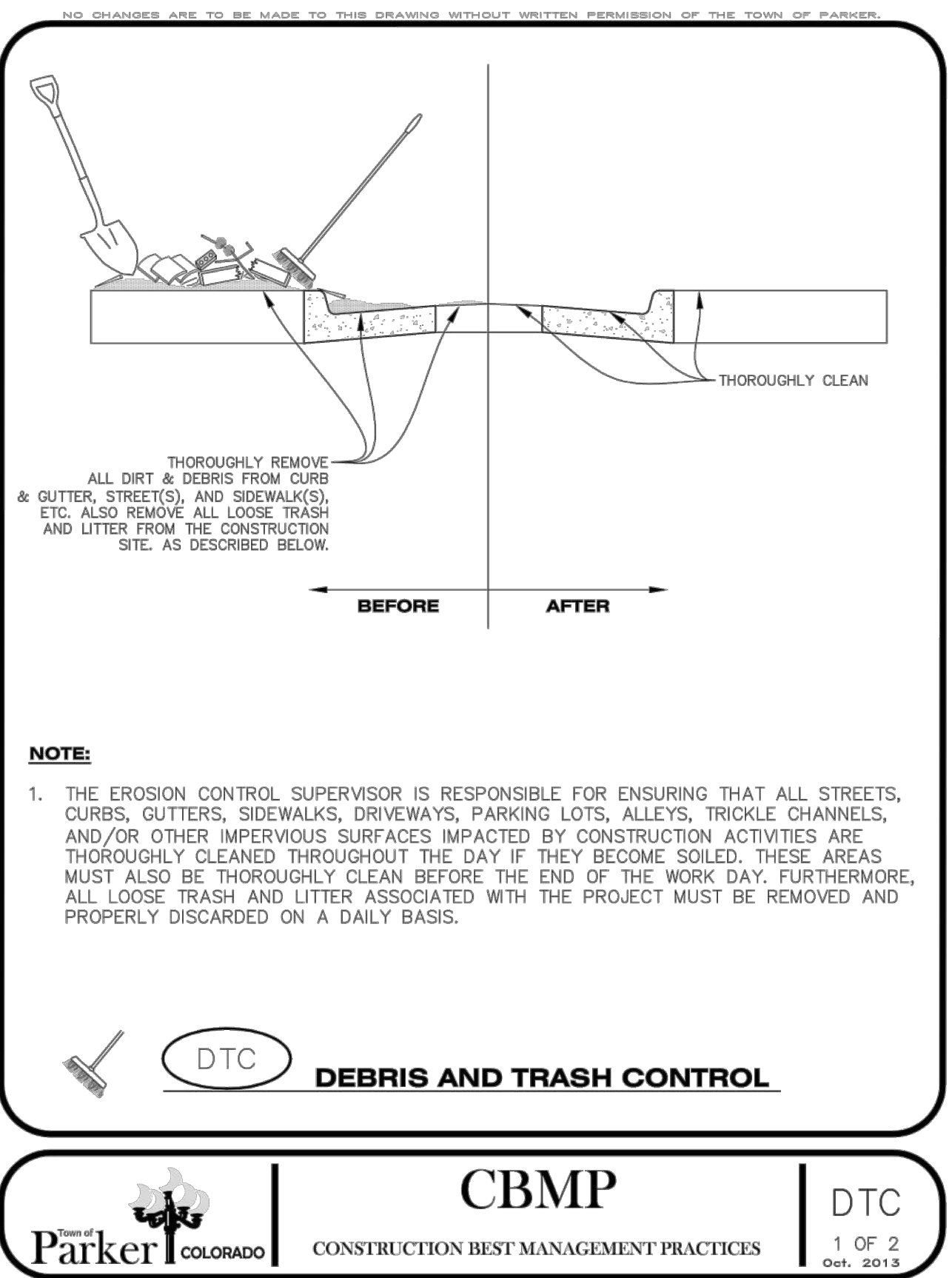
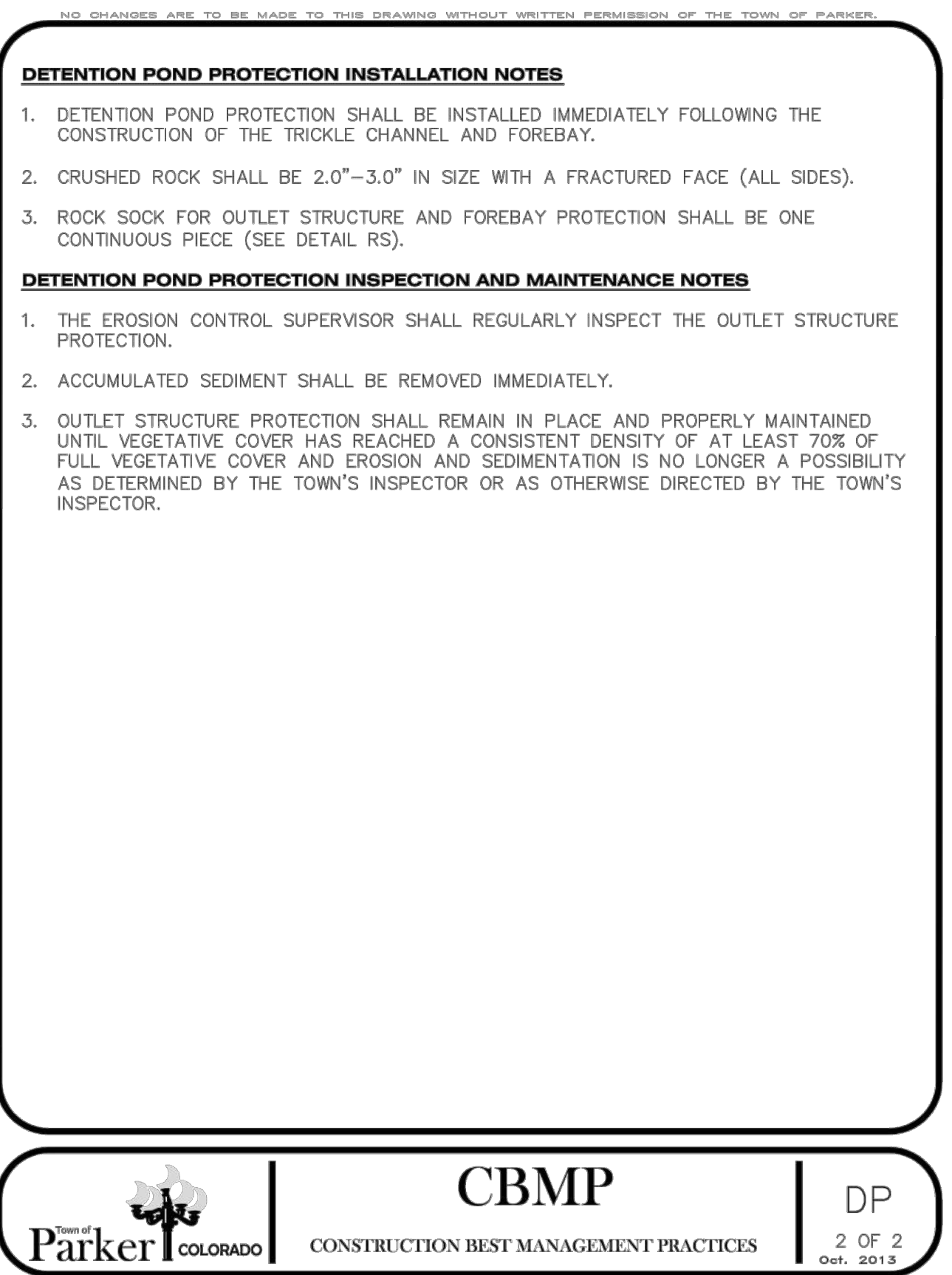
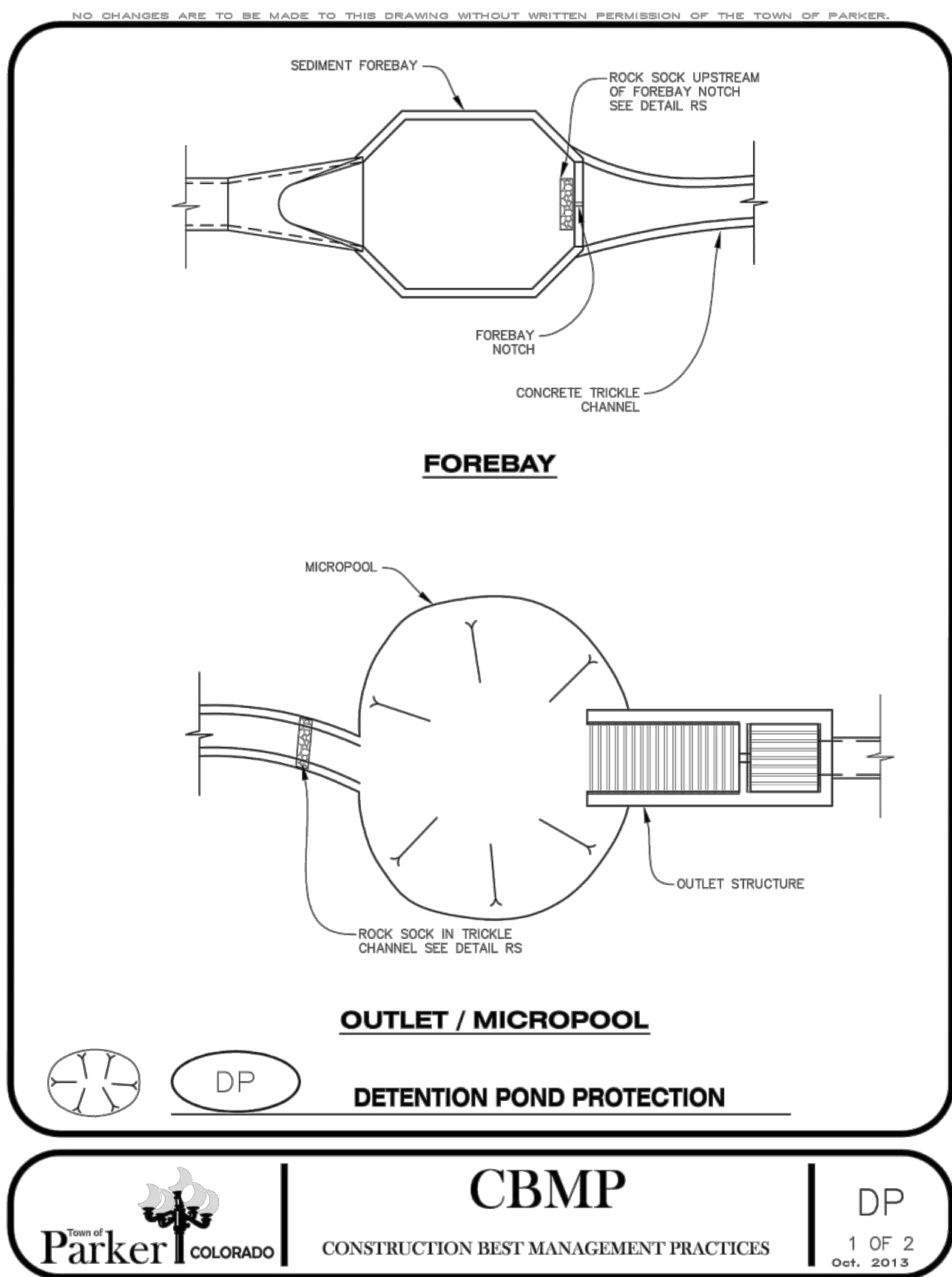
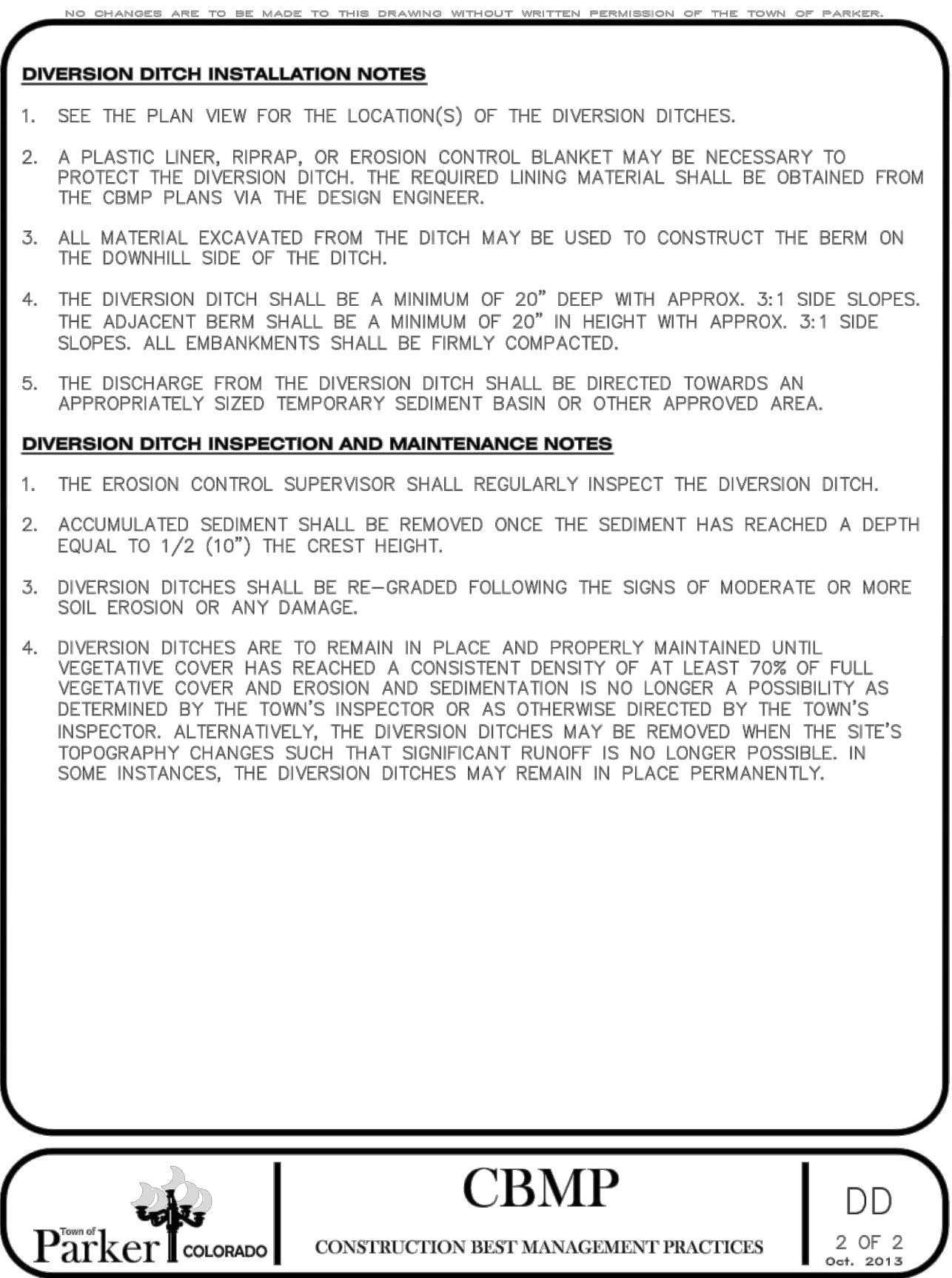
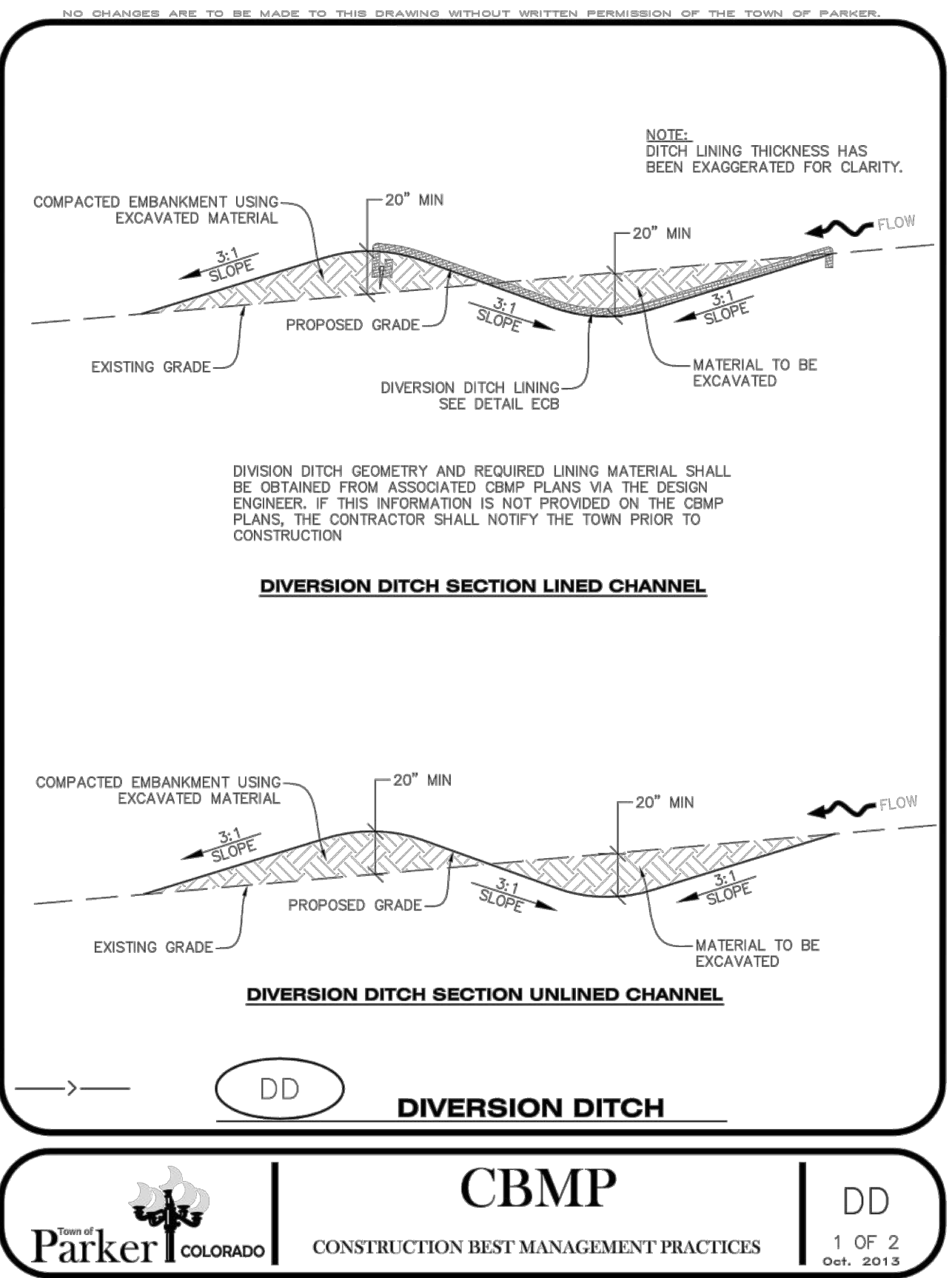
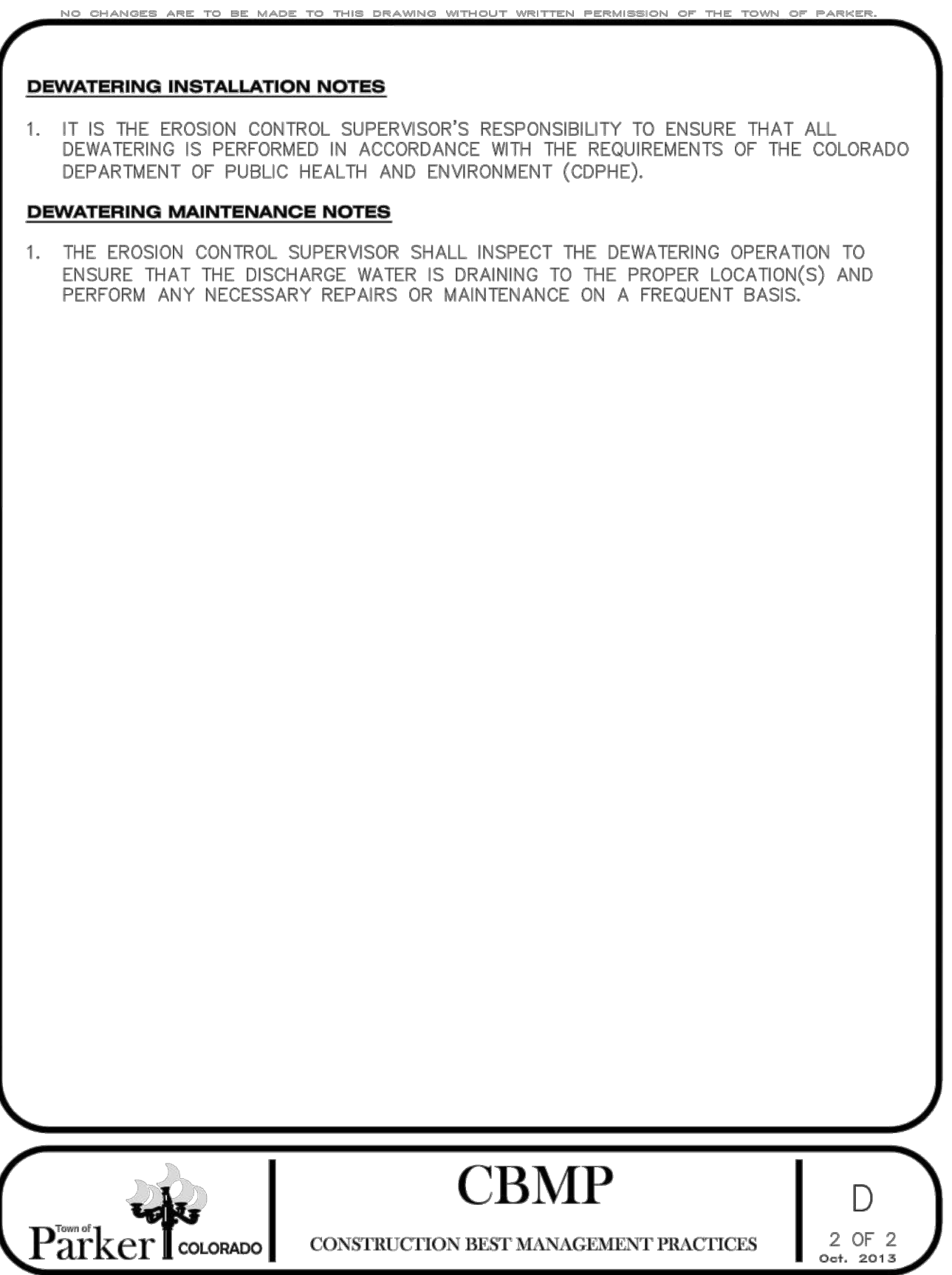
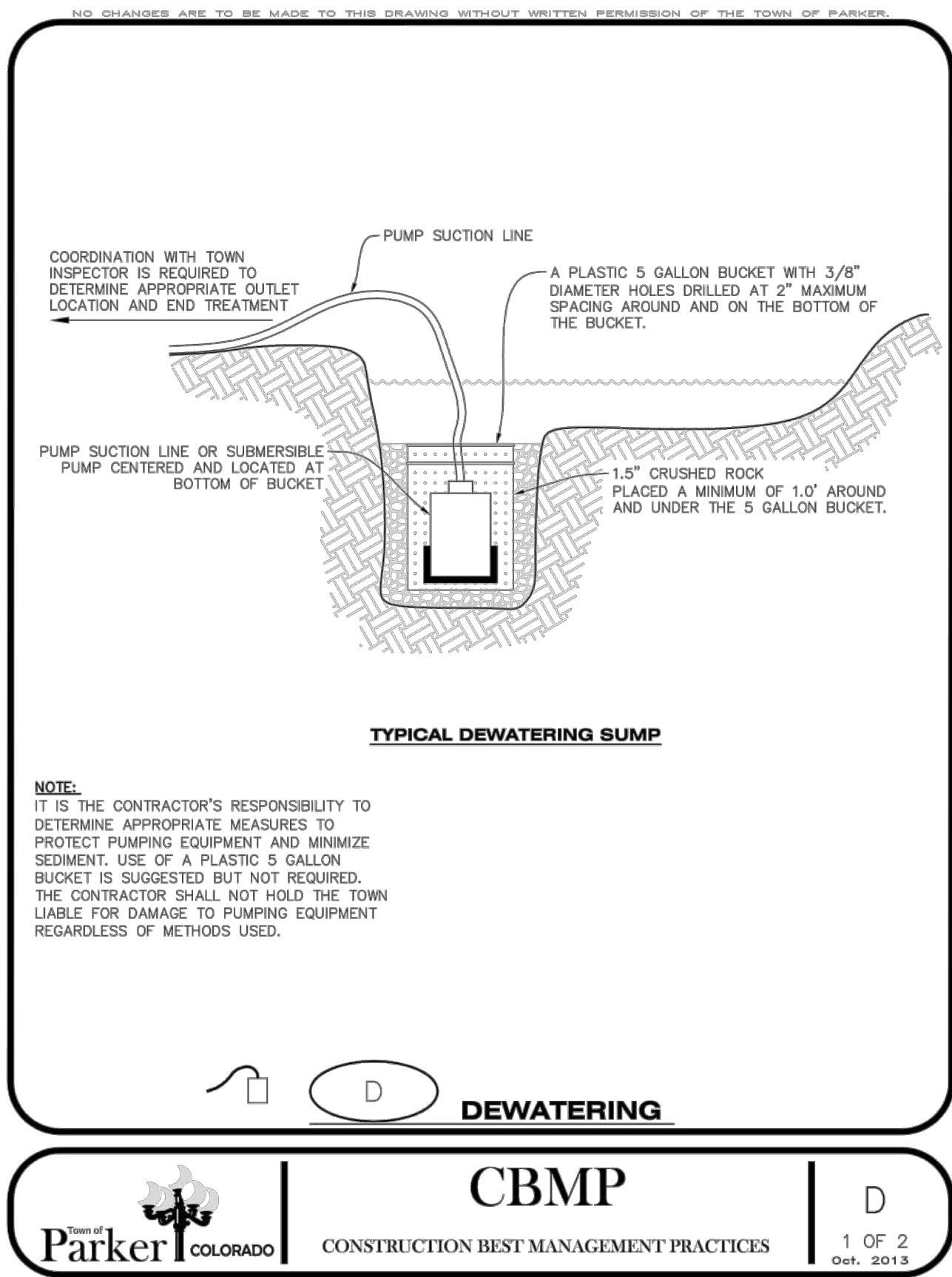
Section A-A: Shows a cross-section of the check dam. The riprap is labeled "RIPRAP TYPE M D50=12\" (MIN)". The dam has a top width of 2'-0" and a height of 1.5' MIN. The riprap is embedded 1'-8" MIN. into the foundation. The dam is shown with a 1:1 slope on the right side. The flow is indicated by an arrow pointing right.

Legend: A small square with a cross-hatch pattern is labeled "CD".

Section A

CHECK DAM















CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

IPA

1 OF 1

Oct. 2013





















City of
Parker

COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LP

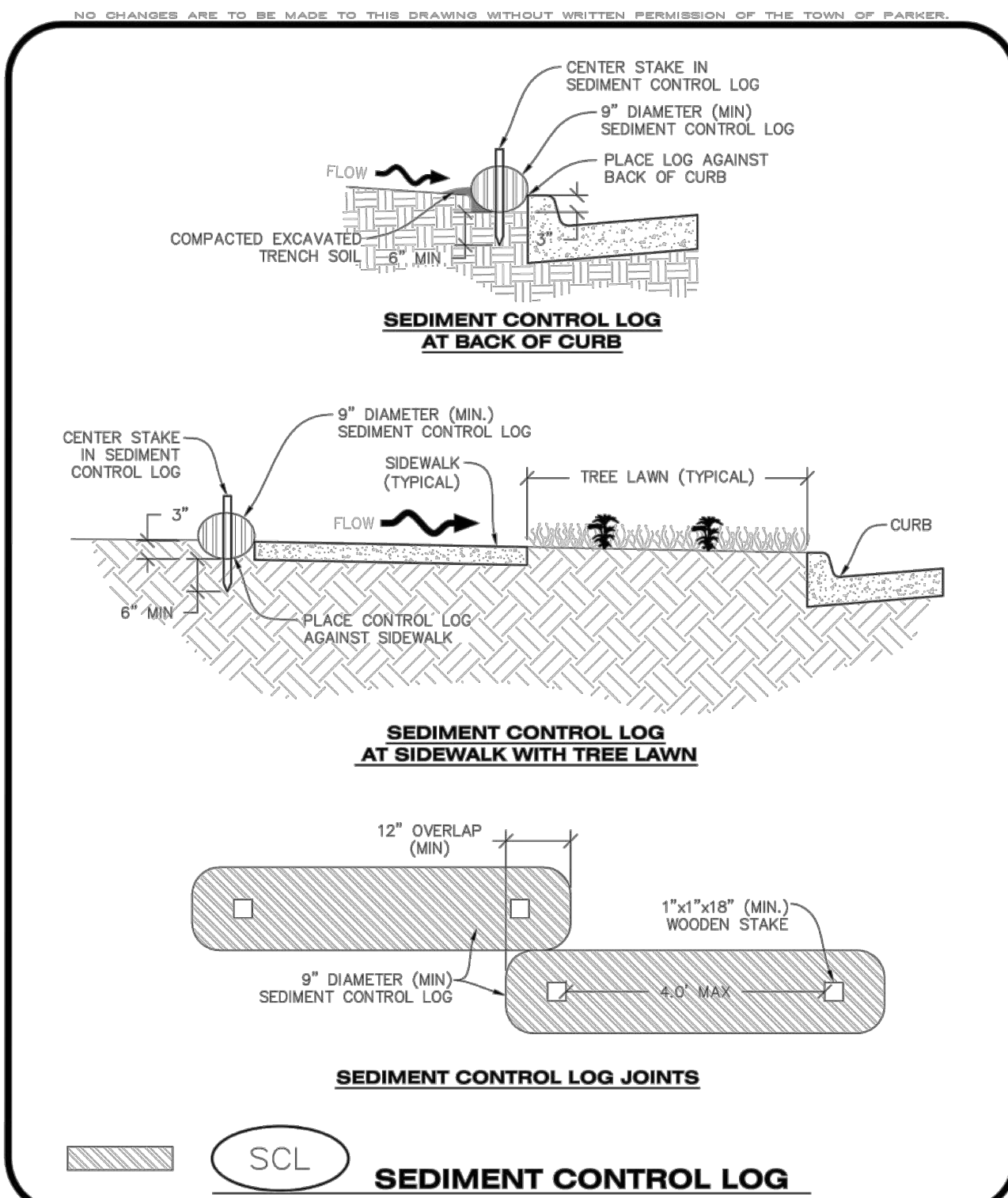
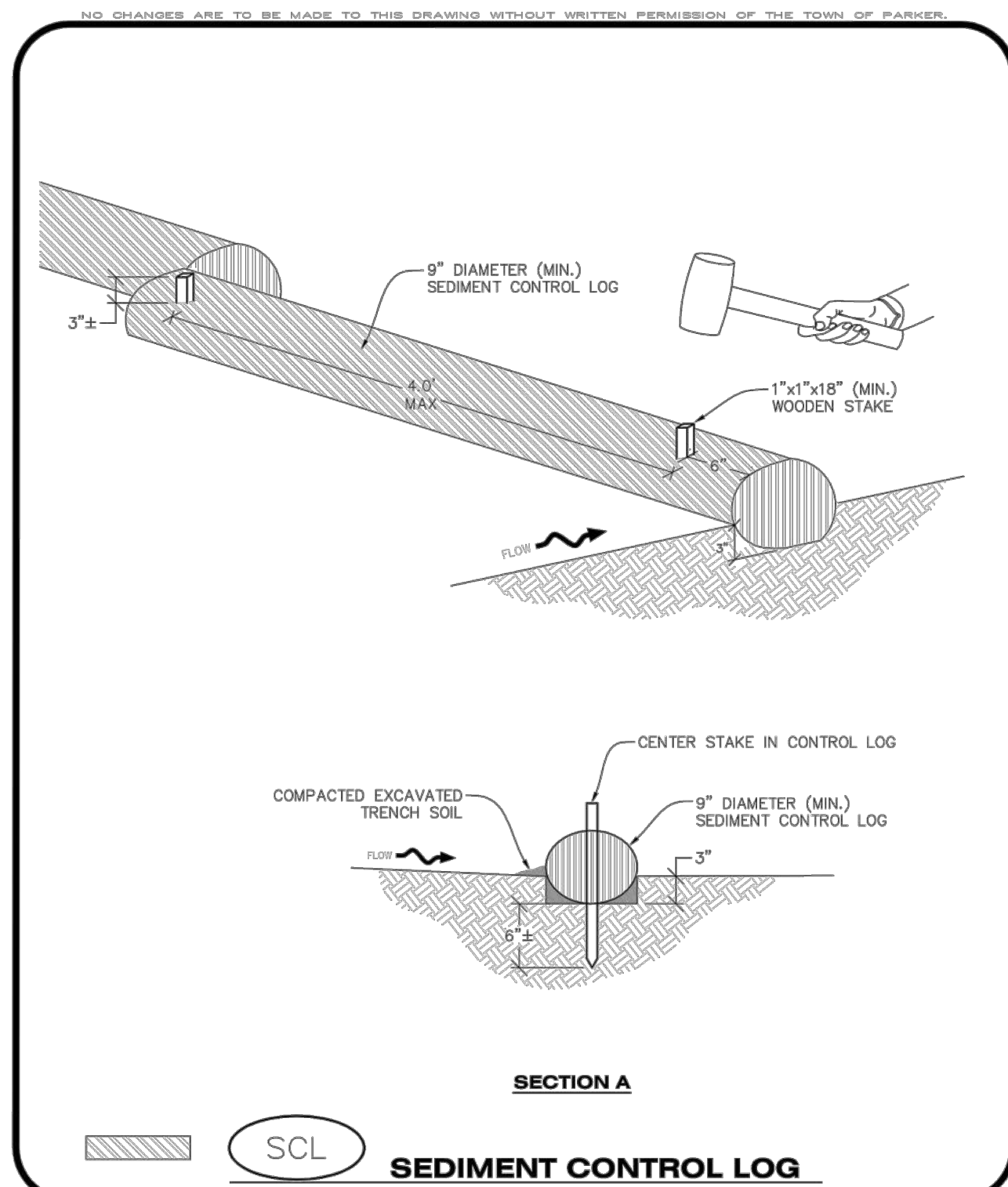
2 OF 2

Oct. 2013

		
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 Parker COLORADO	CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES	MWP 2 OF 2 Oct. 2013
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	CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES	PTP 1 OF 2 Oct. 2013
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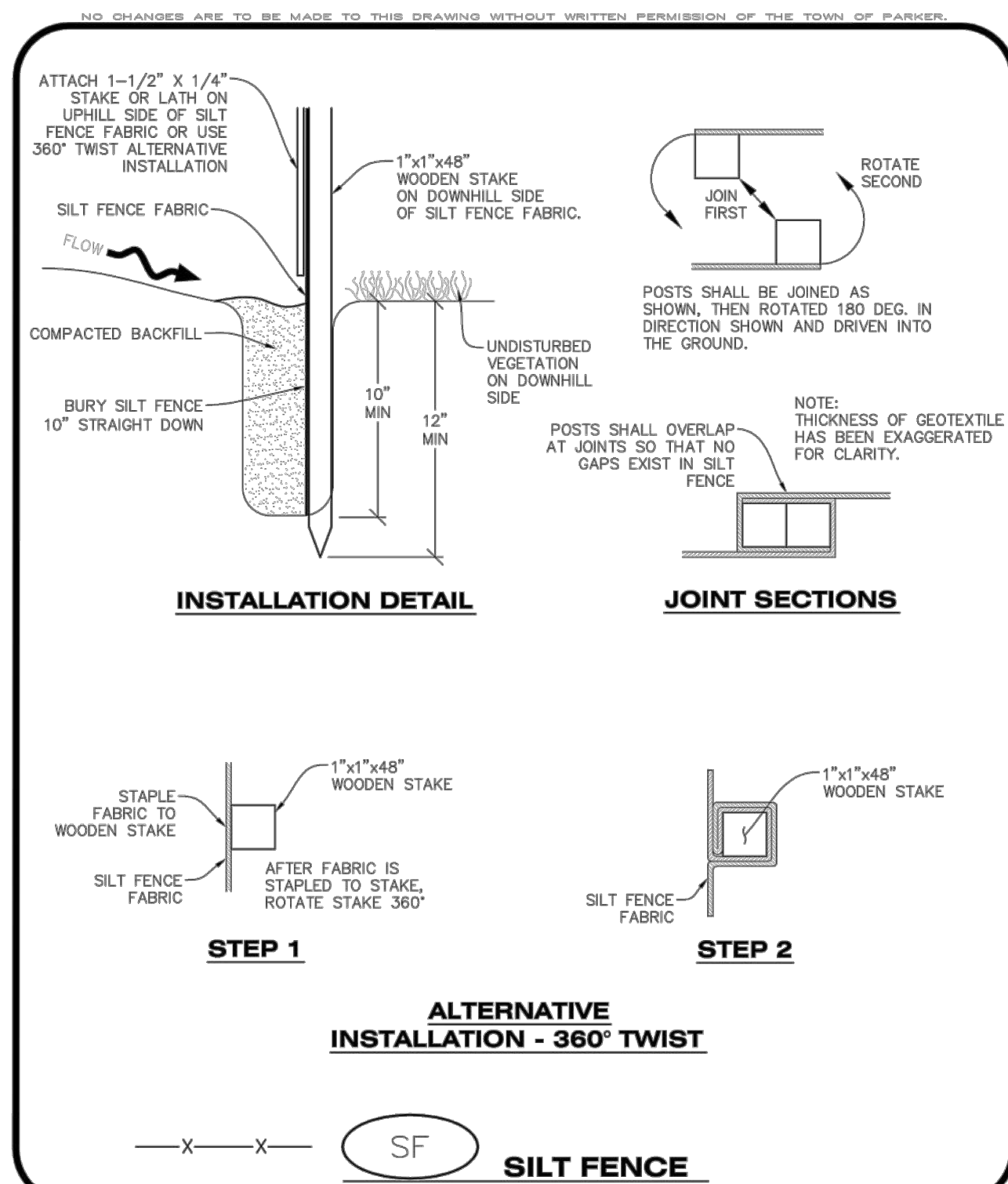
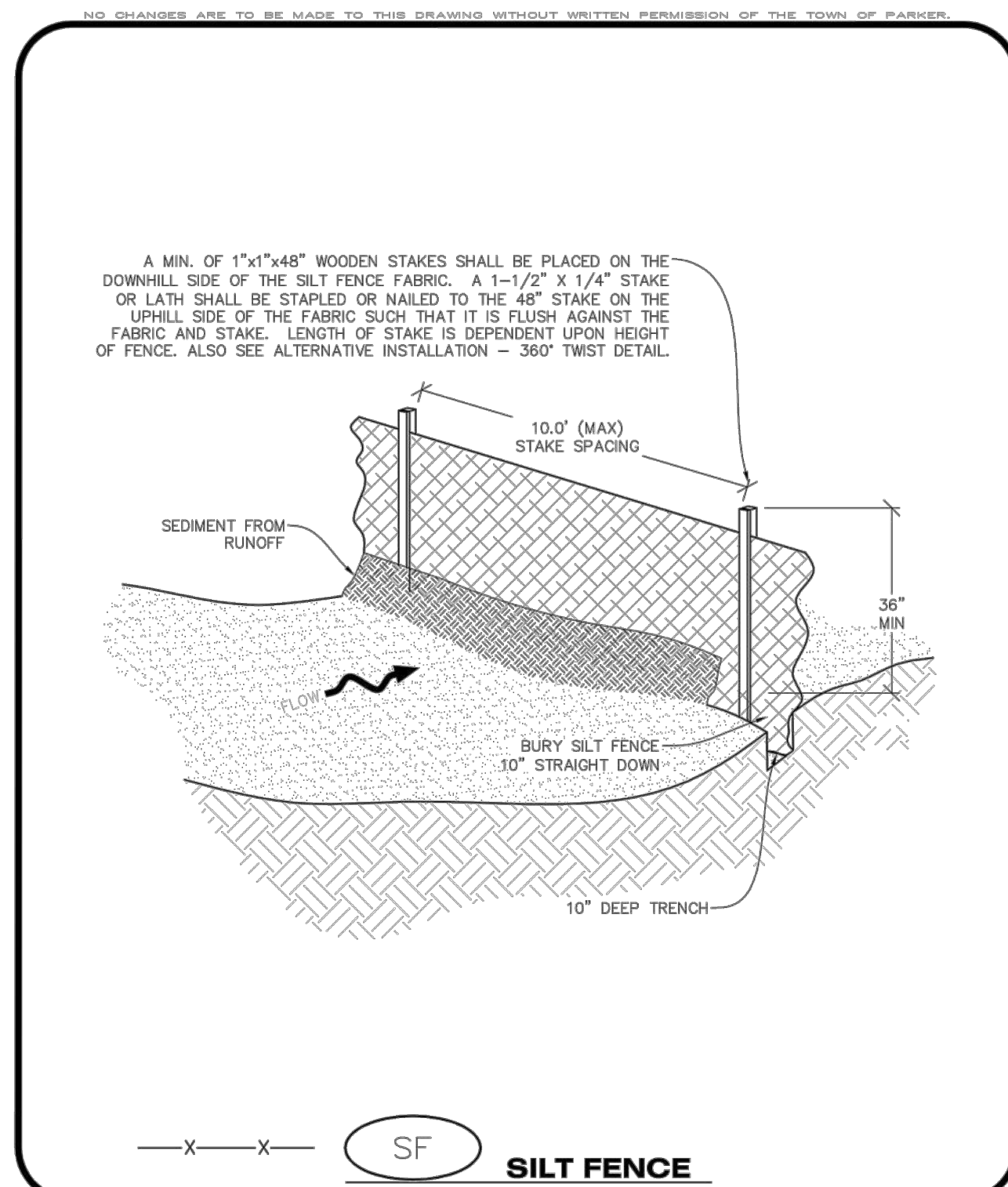


SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT CONTROL LOGS.
2. ALL SEDIMENT CONTROL LOGS SHALL BE INSTALLED FREE OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. SEDIMENT CONTROL LOGS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO AN IMPERVIOUS SURFACE SUCH AS A CURB, HEAVY SIDEWALK, INLET, ETC. NO GAPS SHALL EXIST BETWEEN THE SEDIMENT CONTROL LOG AND THE IMPERVIOUS SURFACE.
4. A UNIFORM 3" DEEP ANCHOR TRENCH (APPROX.) IN THE SHAPE OF A HALF-SPHERE SHALL BE EXCAVATED USING A TRENCHER, SPADE-SHAPED SHOVEL, OR PICK. THE ANCHOR TRENCH SHALL BE SIZED TO ALLOW FOR THE SEDIMENT CONTROL LOG TO SEAT TIGHTLY AGAINST THE ANCHOR TRENCH.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH AND PROPERLY COMPACTED.
6. ANCHOR TRENCH SHALL BE RELATIVELY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT.
7. ALL SEDIMENT CONTROL LOGS SHALL BE PLACED 3" (APPROX.) BELOW THE GROUND AND PULLED TIGHT ON BOTH ENDS TO REMOVE ANY CURVES OR SNAGS.
8. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS RELATIVELY FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED AGAINST THE GROUND AND SEDIMENT CONTROL LOG USING A SHOVEL, OR SIMILAR DEVICE.
9. SEDIMENT CONTROL LOG STAKES SHALL BE MADE OF WOOD AND SECURELY ANCHOR THE SCL IN PLACE.
10. STAKES SHALL BE PLACED ON 4.0' CENTERS AND EMBEDDED APPROXIMATELY 6" INTO THE GROUND. STAKES THAT ARE BROKEN PRIOR TO OR DURING INSTALLATION SHALL BE REPLACED.
11. SEDIMENT CONTROL LOGS SHALL OVERLAP A MINIMUM OF 12". THE OVERLAPPING SHALL OCCUR ON THE UP-GRADIENT SIDE OF THE LOGS.
12. SEDIMENT CONTROL LOGS SHALL BE STAKED WITHIN 6" FROM EACH END.
13. SEDIMENT CONTROL LOGS THAT ARE INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN THE CONCRETE AND THE LOG. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

SEDIMENT CONTROL LOG INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEDIMENT CONTROL LOGS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF EXPOSED LOG.
3. SEDIMENT CONTROL LOGS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A COVERED AREA OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SEDIMENT CONTROL LOGS SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR OR DAMAGE THAT WOULD PREVENT THE SCL FROM FUNCTIONING AS DESIGNED.
5. WHEN THE SEDIMENT CONTROL LOGS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SEDIMENT CONTROL LOGS MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



SILT FENCE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SILT FENCE.
2. ALL SILT FENCE SHALL BE INSTALLED IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A UNIFORM 10" DEEP ANCHOR TRENCH SHALL BE EXCAVATED USING A TRENCHER.
4. A 10" DEEP ANCHOR SLIT SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH.
6. ANCHOR TRENCH SHALL BE GENERALLY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE THOROUGHLY BACKFILLED WITH SOIL THAT IS GENERALLY FREE OF ROCKS AND DEBRIS.
8. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-GRADIENT SIDE OF THE SILT FENCE.
9. STAKES SHALL BE POSITIONED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS: 1"x¼"x24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE SIGNIFICANT SAGGING ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING STAPLES OR NAILS OF AN APPROXIMATE LENGTH. ENOUGH STAPLES AND NAILS SHOULD BE PLACED ALONG THE LATH TO ENSURE PROPER ATTACHMENT.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

PROPERTIES	TEST METHOD	MANDATORY REQUIREMENTS
GRAB TENSILE STRENGTH	ASTM D 4832	≥ 124 LBS
CULLEN BURST STRENGTH	ASTM D 3786	≥ 300 PSI
PUNCTURE STRENGTH	ASTM D 4833	≥ 60 LBS
TRAPEZOID TEAR STRENGTH	ASTM D 4533	≥ 65 LBS
UV RESISTANCE	ASTM D 4355	≥ 80% AT 500 HOURS OF UV EXPOSURE
FLOW RATE	ASTM D 4491	> 10 GAL/MIN/FT2
13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.

PROPERTIES	TEST METHOD	MANDATORY REQUIREMENTS
GRAB TENSILE STRENGTH	ASTM D 4632	> 124 LBS
MULLEN BURST STRENGTH	ASTM D 3786	> 300 PSI
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UV RESISTANCE	ASTM D 4355	> 80% AT 500 HOURS OF UV EXPOSURE
FLOW RATE	ASTM D 4491	> 10 GALS/MIN/FT2

13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.
15. SILT FENCE THAT IS INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN CONCRETE AND THE SILT FENCE. EROSION CONTROL DRAINAGE (ECD) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.



SILT FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SILT FENCE.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED REGULARLY.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR AND/OR DAMAGE.
5. WHEN THE SILT FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



**SEEDING AND MULCHING SHALL BE PERFORMED ACCORDING TO THE ACCOMPANYING
DETAIL(S) AND TEXT. NO EXCEPTIONS SHALL BE MADE**

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SEEDING AND MULCHING
 - TYPE OF SEED MIX
2. SEED MIXES MAY CONFORM TO THE TABLE PROVIDED WITH THE SMC NOTES OR ALTERNATIVES MAY BE ALLOWED WITH PRIOR PERMISSION BY THE TOWN'S INSPECTOR.
3. SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
4. AT THE BEGINNING OF THE LAND DISTURBANCE ACTIVITIES, IT IS HIGHLY RECOMMENDED THAT AN APPROPRIATE AMOUNT OF NATIVE TOPSOIL BE STRIPPED FROM THE SITE AND STOCKPILED. ALL AREAS PRIOR TO PERMANENT SEEDING AND MULCHING, WILL LIKELY NEED TO BE COVERED WITH AN APPROPRIATE LAYER OF TOPSOIL. THIS REQUIREMENT APPLIES TO ALL AREAS WHERE NATIVE SEEDING IS SPECIFIED ON THE CBMP PLAN AND/OR LANDSCAPING PLANS.
5. IT IS STRONGLY RECOMMENDED THAT SAMPLES FROM THE STRIPPED TOPSOIL BE PROPERLY COLLECTED AND TESTED BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE NUTRIENT CONTENT PRIOR TO SEEDING AND MULCHING. IF IT IS DISCOVERED THAT THE TOPSOIL IS VOID OF THE NUTRIENTS NECESSARY TO SUCCESSFULLY ESTABLISH THE REQUIRED VEGETATION, THEN THE APPROPRIATE AMENDMENTS SHALL BE ADDED.
6. ALL AREAS TO BE SEEDDED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
7. WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF $\frac{1}{4}$ - $\frac{1}{2}$ INCH. ROW SPACING SHALL BE NO MORE THAN 6-INCHES.
8. ALL AREAS INCAPABLE OF BEING DRILL SEEDER SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING NOTES OR EFFECTIVELY ROUGHENED USING A HARROW OR OTHER SUCH IMPLEMENT. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDER RATE. BROADCASTED AREAS SHALL THEN BE RE-HARROWED OR RE-RAKED USING A HARD-TIPPED RAKE TO ENSURE THAT SEEDS ARE BURIED TO AN APPROXIMATE DEPTH OF $\frac{1}{4}$ - $\frac{1}{2}$ INCH.
9. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY CRIMPED AT A RATE OF 2 TONS/ACRE (4,000 LBS./ACRE). MULCH SHALL BE MECHANICALLY APPLIED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE THE CRIMPING IS NOT POSSIBLE. WHEN SOILS PERMIT, ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OF STRAW OR HAY FORM EXAGGERATED V-SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES.
10. IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

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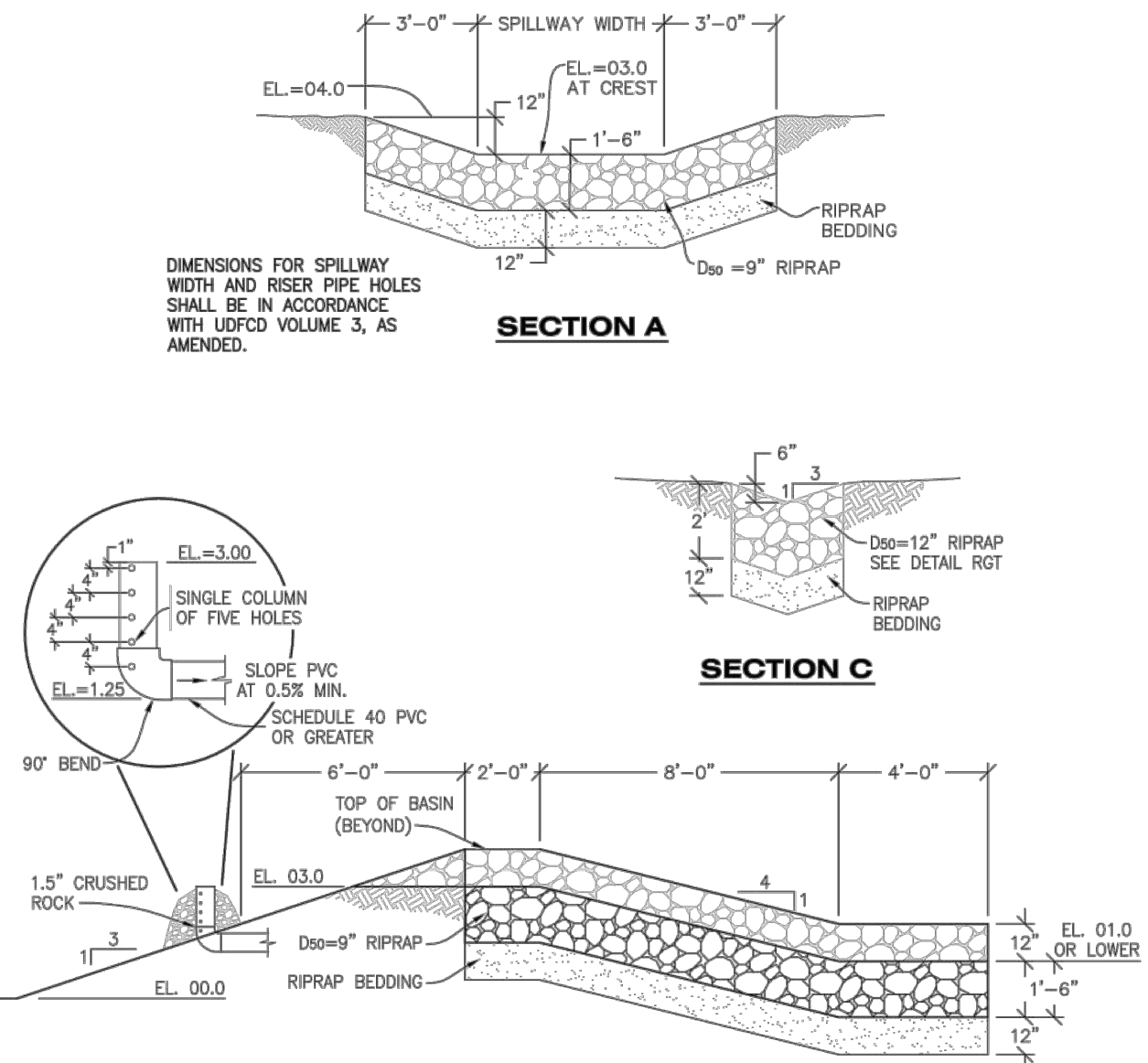
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER

TEMPORARY SEDIMENT BASIN INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT BASIN(S).
2. THE TEMPORARY SEDIMENT BASIN(S) SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY OTHER GRADING ACTIVITIES.
3. THE EXACT DIMENSIONS AND DETAILS OF THE TEMPORARY SEDIMENT BASIN SHALL BE DETERMINED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3" AND SHALL HAVE A MINIMUM OF 15% BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% DENSITY, AND WITHIN +/- 2% OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698.
6. AN APPROPRIATELY SIZED DEWATERING BAG SHALL BE SECURED TO THE END OF THE DISCHARGE PIPE. THE DEWATERING BAG SHALL BE REPLACED ONCE SEDIMENT ACCUMULATION REACHES 50%.

TEMPORARY SEDIMENT BASIN INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE TEMPORARY SEDIMENT BASIN.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT REACHES A DEPTH OF 2.0', OR WITHIN 2.0' OF THE SPILLWAY CREST, OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. SEDIMENT BASINS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL UPSTREAM VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR.



SECTION C



TEMPORARY SEDIMENT BASIN



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

TSB

2 OF 3
Oct. 2013

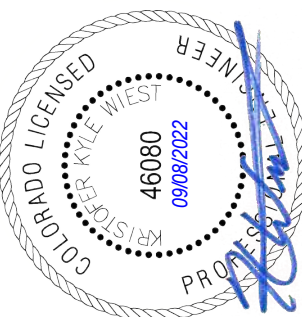


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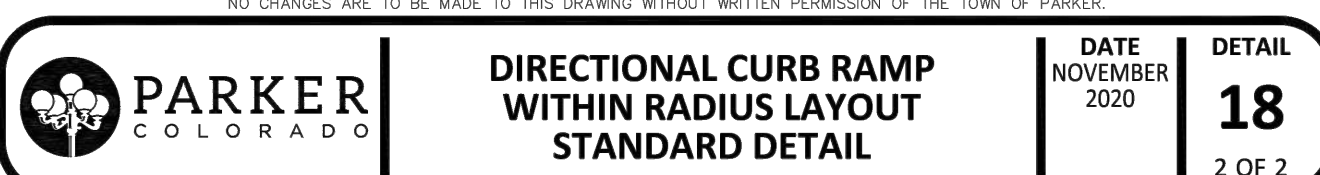
FOR AND ON BEHALF OF MERRICK & COMPANY

31

42

File Location: Q:\DEN\Projects\0950-00 Compark South\CAD\CDS\PIC\0950-STANDARD DETAILS.dwg Plot Date: 9/12/2022 4:15 PM Last Saved By: KBLACK

Know what's **below**.
Call before you dig





Know what's below.
Call before you dig.

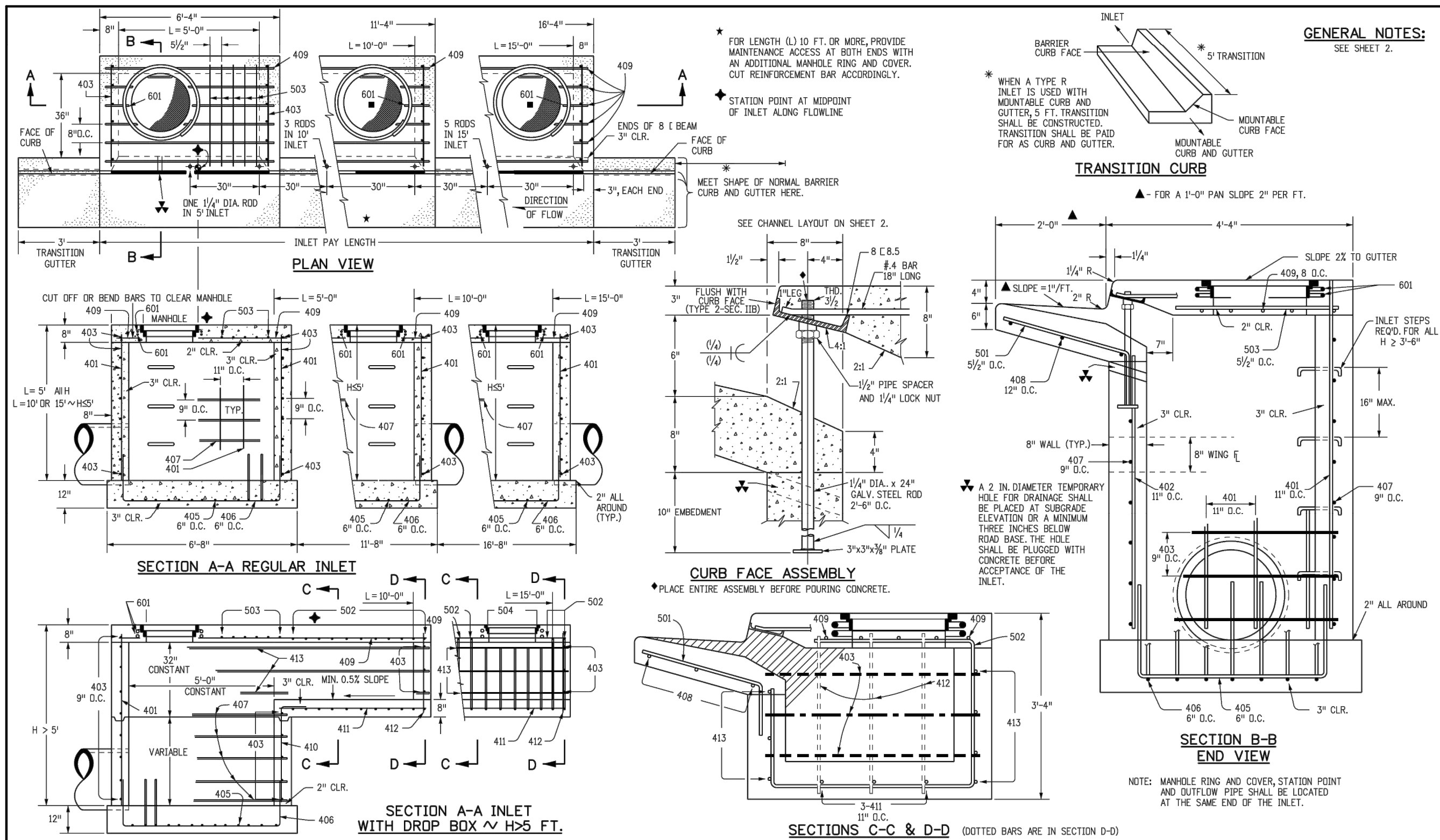
NOTES:

- This trench backfill detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction.
- A construction traffic control plan shall be submitted to and approved by Douglas County prior to issuance of construction permits in the County right-of-way.
- Trench shall be braced or shored as necessary for the safety of the workers and protection of other utilities or structures in accordance with applicable local, state and federal safety regulations.
- The trench width shall be confined to those minimum dimensions, which will permit proper installation and acceptable pipe loading, as established by current local, state and federal safety regulations.
- Backfill compaction requirements: Minimum density will be determined in accordance with AASHTO T 99 or T 180 as defined by CDOT Standard Specifications Section 203.07 and CDOT 703.03. Except for CLSM.
- Full depth asphalt can be used as an alternative to base course.
- Pavement edges shall be saw-cut. Edges shall be tack coated prior to patching.
- All storm sewers shall be constructed so that a minimum cover is maintained to withstand AASHTO HS-20 loading on the pipe. The minimum cover to withstand live loading depends upon the pipe size, type and class, and soil bedding condition, but shall be not less than 1-foot at any point along the pipe. Other factors that affect the depth of the pipe are hydraulic grade line elevations, inlet depths, adjacent utilities or utility crossings, including water and sewer services lines along residential streets, and connections to existing storm sewer systems. The roadway subgrade, which supports the pavement section is typically plowed to a certain depth, moisture treated and compacted prior to the placement of the sub-base, base course, and surfacing. There are also instances where the subgrade material must be excavated and replaced to a certain depth to mitigate swelling soils. These efforts can impact the storm sewer system if it has not been designed with adequate depth. The design engineer shall use the best information available, including pavement design or soils reports (if available) to ensure that storm sewer pipes have adequate depth.
- Changes in design criteria will require compensating change in pipe design.
- When pipe sewer is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved through Douglas County Engineering.
- When two or more conduits are laid side-by-side, they shall be placed so that they are $\frac{1}{2}$ outside diameter, or $\frac{1}{2}$ outside span, or 3' apart, whichever is less. However, if end sections are used, the minimum spacing shall be 1' between the outside edge of end sections.
- TRENCH INSTALLATION (per OSHA Standards):
 - Trenches over 5 feet in depth shall be either shored or the trench walls shall be sloped no steeper than 3:1 to the angle of repose. If sloped, the bottom of the slope shall be a minimum of 1 foot above the top of the pipe.
 - Shoring will be required when the bottom of the slope is more than 3 feet above the bottom of the trench.
 - All sheeting or shoring to be removed.
- CLSM may be used in place of Structural Backfill.
- CLSM shall not exceed a strength over 1000 p.s.i.

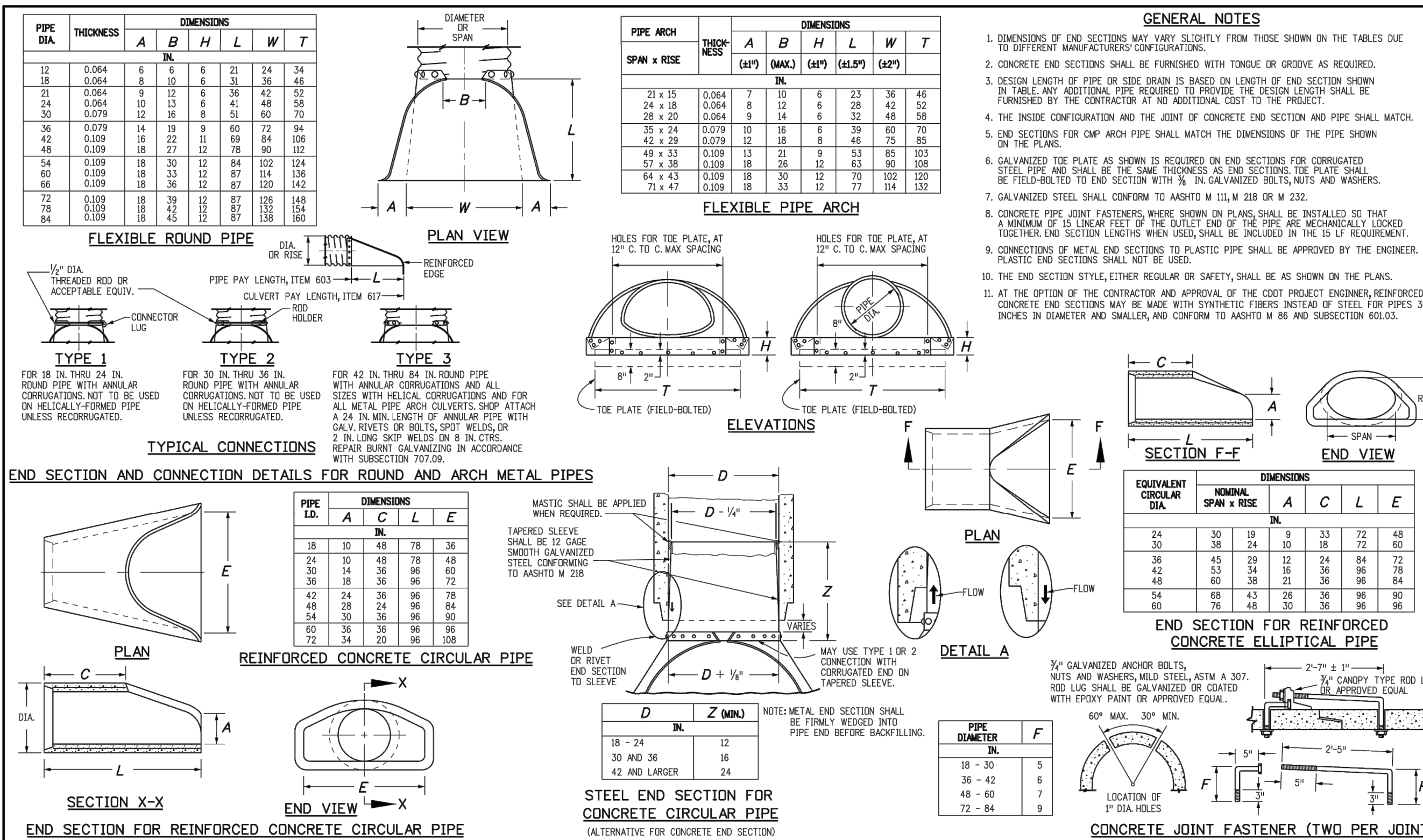
REFERENCE: Douglas County Drainage Manual and Colorado Department of Transportation "M" Standards.

TO BE USED IN OPEN FIELDS OR PRIOR TO PAVING ROADS

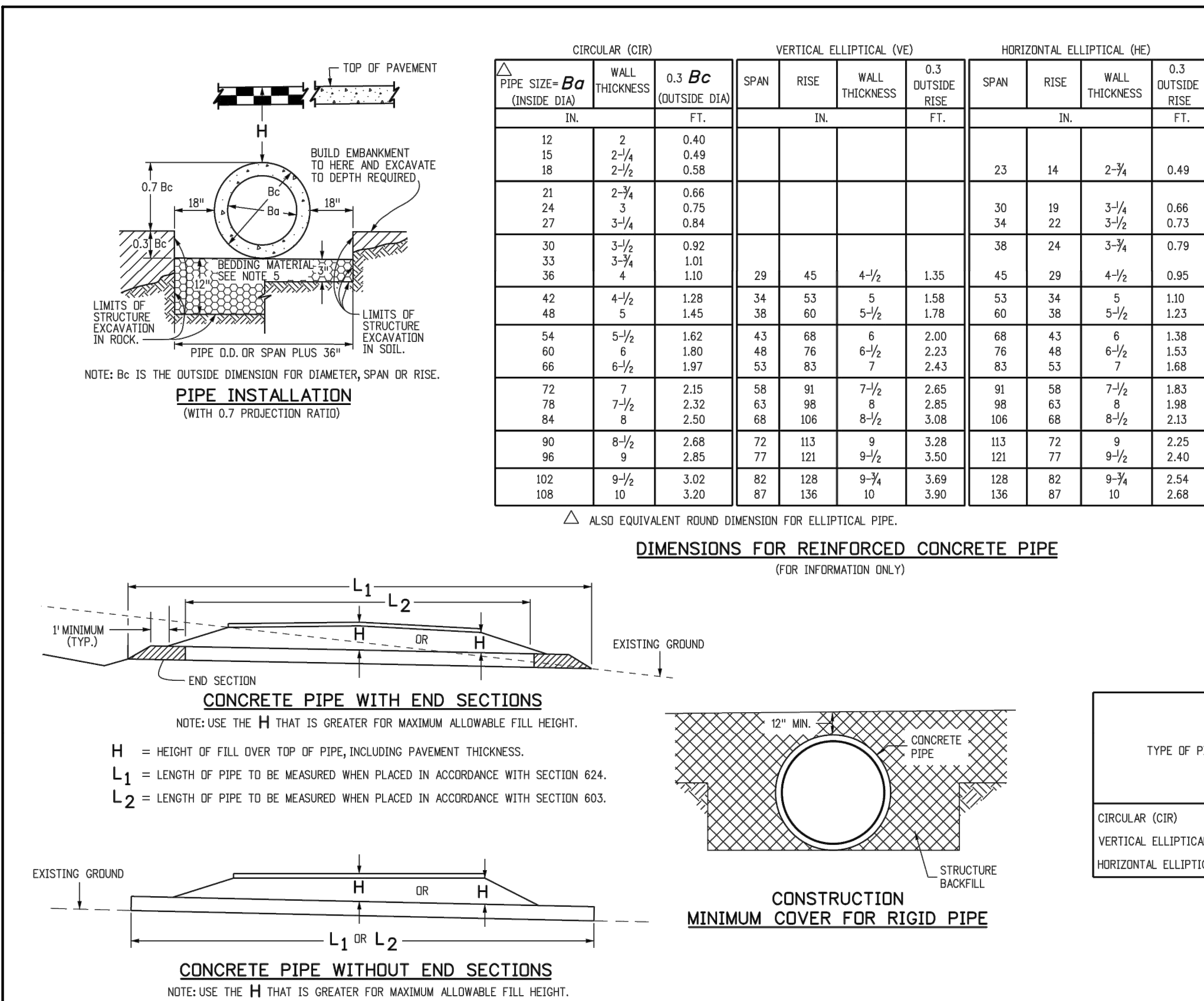
	PIPE INSTALLATION IN TRENCH NOTES	
	Issued: 05/2013	
	Revised:	
	Drawing No. SP.46b	



Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868		CURB INLET TYPE R		STANDARD PLAN NO. M-604-12	
Creation Date: 07/31/19		Date:	Comments:		Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019	Project Sheet Number:	Standard Sheet No. 1 of 2
Designer Initials: JBK	(C-X)								
Last Modification Date: 07/31/19	(C-X)								
Detailer Initials: LTA	(C-X)								
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(C-X)								



Computer File Information		Sheet Revisions		Colorado Department of Transportation  2820 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JBK	CONCRETE AND METAL END SECTIONS Issued by the Project Development Branch: July 31, 2019	STANDARD PLAN NO.
Creation Date: 07/31/19	Date:	Comments:	M-603-10			
Designer Initials: JBK			Standard Sheet No. 1 of 2			
Last Modification Date: 07/31/19						
Detailer Initials: LTA						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			Project Sheet Number:			



Computer File Information		Sheet Revisions		Colorado Department of Transportation	
Creation Date: 07/31/19		Date:	Comments	 2829 West Howard Place 3207 HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868	 Project Development Branch
Designer Initials: JBR					
Last Modification Date: 07/31/19					
Dattler Initials: LTA					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English					

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)					
	CLASS OF PIPE (0.01 IN. CRACK D-L/D)					
	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS VE VI	
	1000 D	1350 D	2000 D	3000 D	4000 D	
CIRCULAR (CIR)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45		
VERTICAL ELLIPTICAL (VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	
HORIZONTAL ELLIPTICAL (HE)	1 TO 18	1 TO 25	± 25 TO 37			

ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE (ALL SIZES)

REINFORCED CONCRETE PIPE	STANDARD PLAN NO.
	M-603-2
	Standard Sheet No. 1 of 1
Issued by the Project Development Branch: July 31, 2019	Project Sheet Number:

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