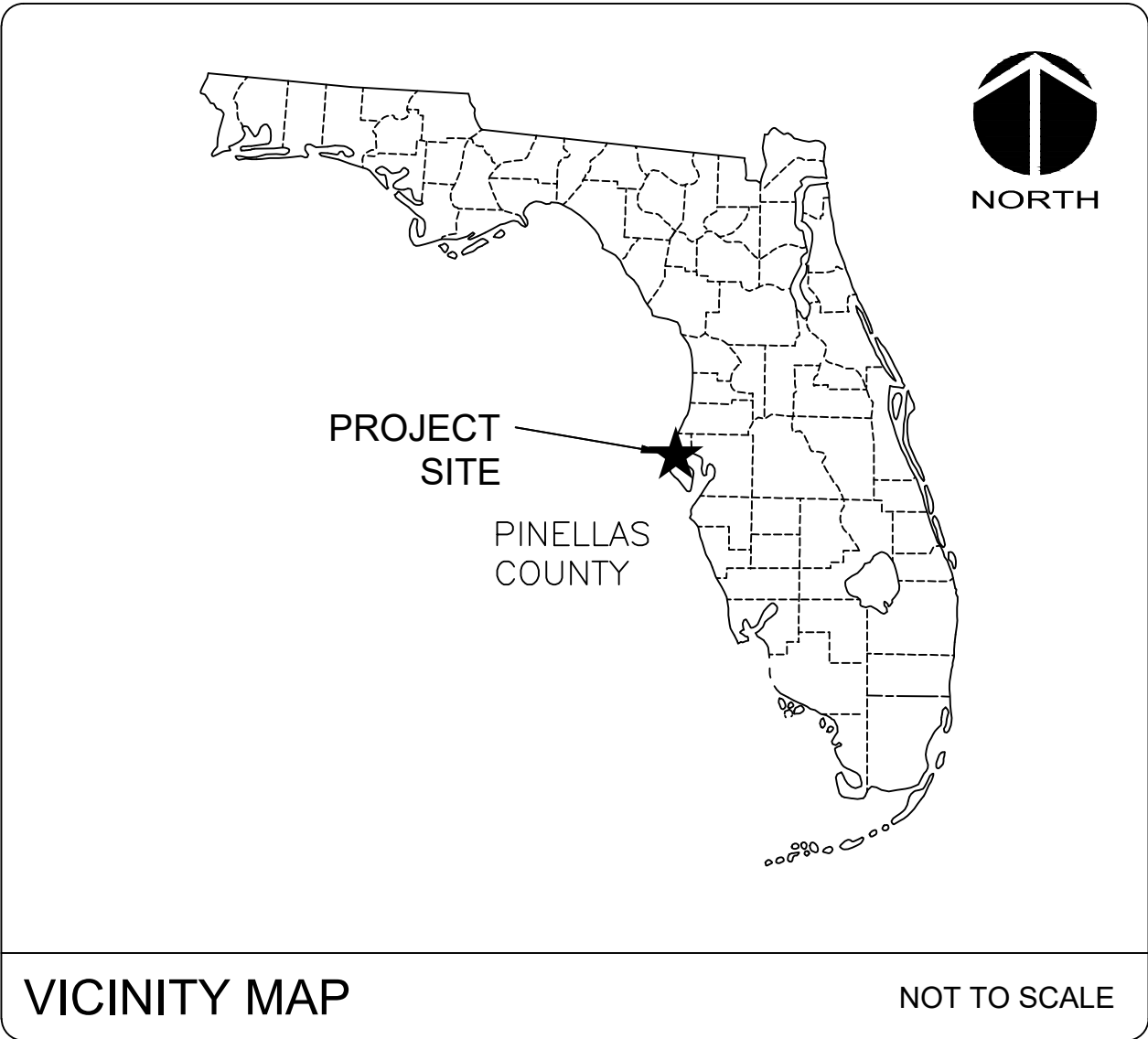


BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS

PROJ. NO. 073340001
December 3, 2020

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
—	COVER, LOCATION MAP & SHEET INDEX
G1	BOUNDARY & TOPOGRAPHIC SURVEY CONTROL POINTS
G2	BOUNDARY & TOPOGRAPHIC SURVEY: GENERAL NOTES
C-1.0	EROSION AND SEDIMENT CONTROL PLANS MASTER KEY MAP
C-2.1	EROSION AND SEDIMENT CONTROL PLAN
C-2.2	EROSION AND SEDIMENT CONTROL PLAN
C-2.3	EROSION AND SEDIMENT CONTROL PLAN
C-2.4	EROSION AND SEDIMENT CONTROL PLAN
C-2.5	EROSION AND SEDIMENT CONTROL PLAN
C-2.6	EROSION AND SEDIMENT CONTROL PLAN
C-2.7	EROSION AND SEDIMENT CONTROL PLAN
C-2.8	EROSION AND SEDIMENT CONTROL PLAN
C-2.9	EROSION AND SEDIMENT CONTROL PLAN
C-2.10	EROSION AND SEDIMENT CONTROL PLAN
C-2.11	EROSION AND SEDIMENT CONTROL PLAN
C-2.12	EROSION AND SEDIMENT CONTROL PLAN
C-3.0	DETAILS
C-3.1	DETAILS
C-3.2	DETAILS
C-3.3	DETAILS
C-3.4	SPRING BOX ABANDONMENT DETAIL

SHEET LIST TABLE (CONTINUED)	
SHEET NO.	SHEET TITLE
D1	EXISTING DRAINAGE AREAS
D2	PROPOSED DRAINAGE AREAS
D3	DRAINAGE PLANS - DITCH: WEST BRANCH
D4	DRAINAGE PLANS - DITCH: EAST BRANCH
D5	DRAINAGE PLANS - DITCH: EAST BRANCH
D6.1	DRAINAGE PLANS - STM SEWER: RATTLESNAKE
D6.2	DRAINAGE PLANS - STM SEWER: RATTLESNAKE
D6.3	DRAINAGE PLANS - STM SEWER: RATTLESNAKE
D7	DRAINAGE PLANS - DITCH: EXISTING UNNAMED CREEK
D8	DRAINAGE PLANS - STRUCTURE DATA TABLES



PROJECT NAME: WEST COURSE MODIFICATIONS

OWNER/DEVELOPER:
Belleair Country Club
One Country Club Lane
Belleair, FL 401 W. Kennedy Blvd.
Tampa, FL 33756
(727) 461-7171

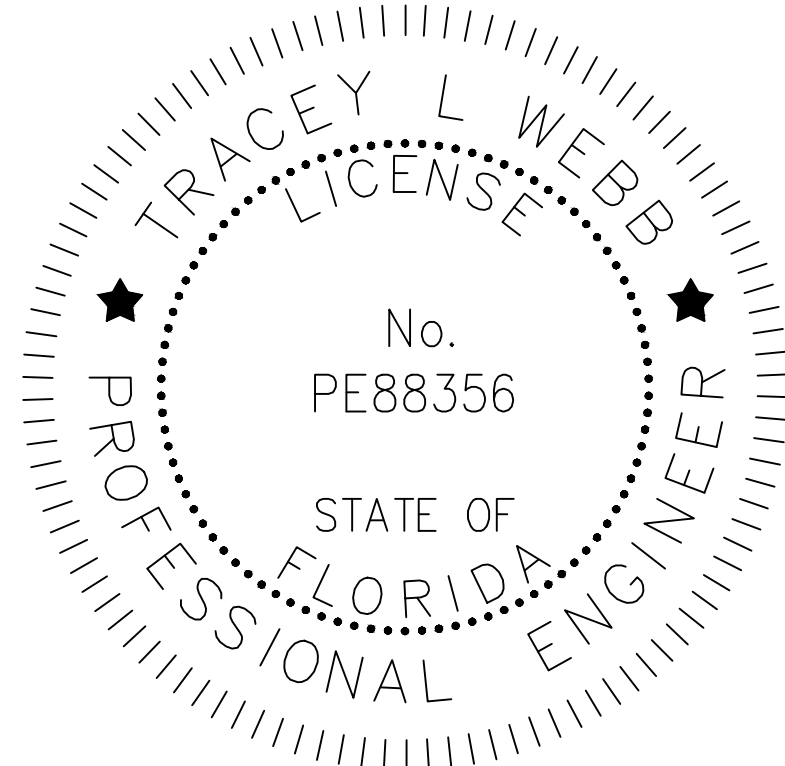
Contact:
Edward Shaughnessy
Chief Operating Officer
(727) 641-4567

811
Know what's below.
Call before you dig.

MCKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827

CA Lic. No. 29588
www.mckimcreed.com

PROJECT INFORMATION



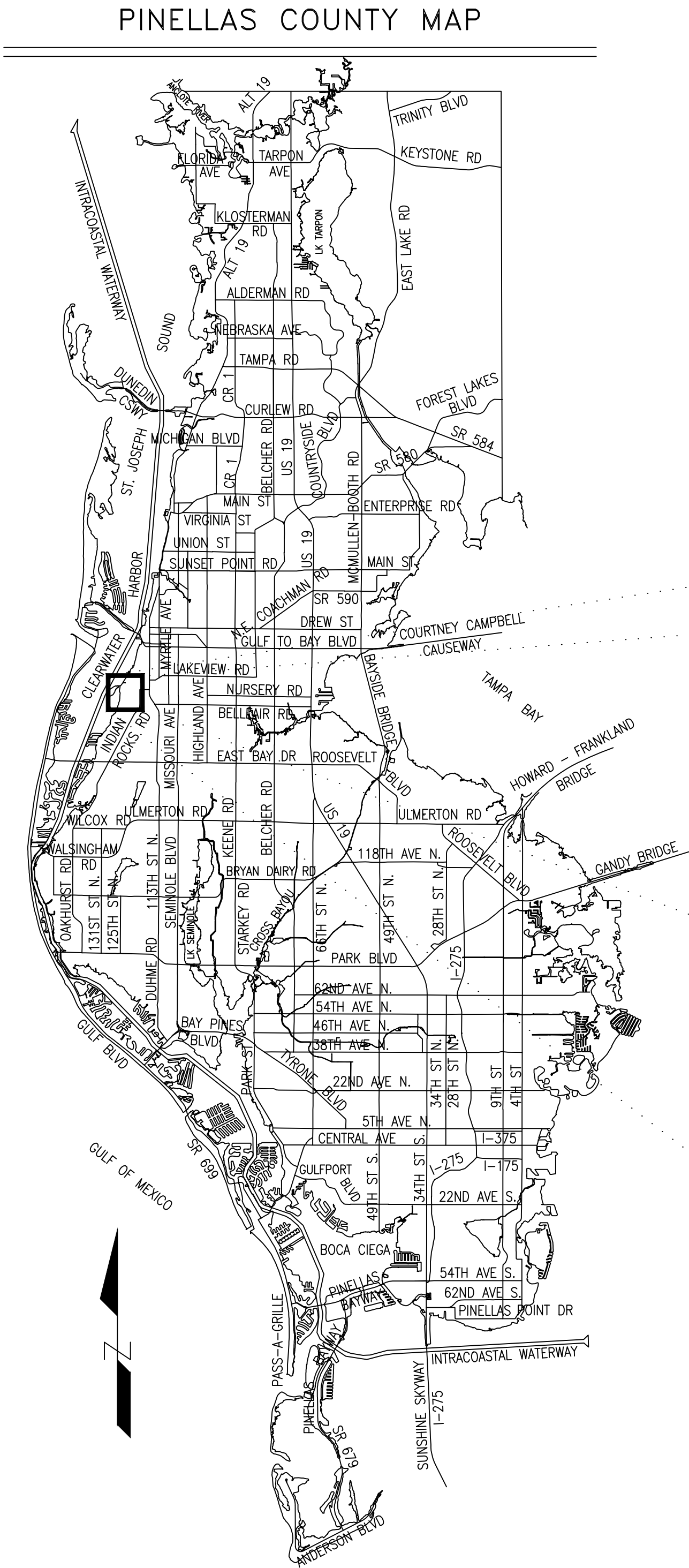
THE ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THIS SEAL

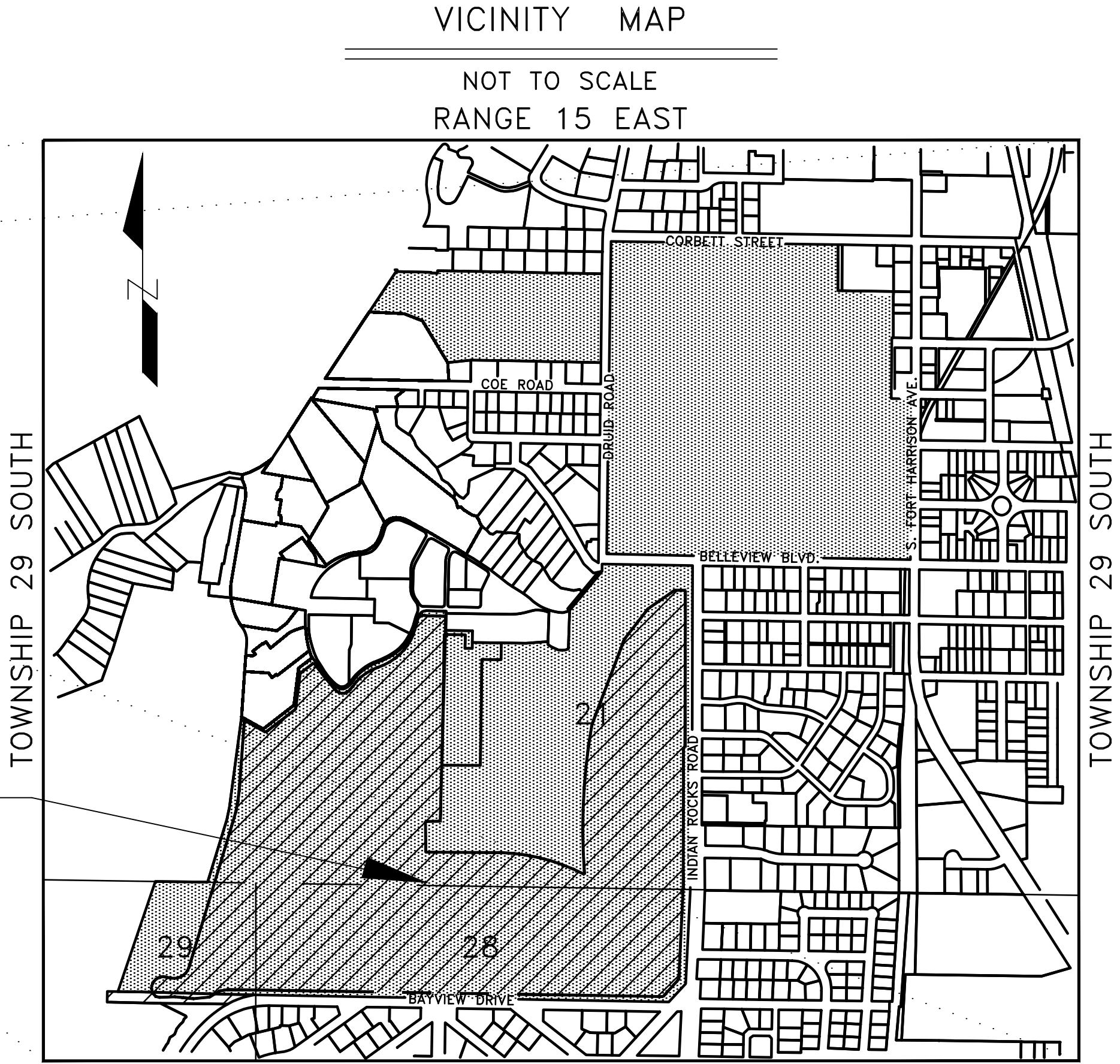
PRINTED COPIES OF THIS ITEM ARE NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MCKIM & CREED INC.
3903 NORTHDAL BLVD., SUITE 115E
TAMPA, FL 33624
PHONE NO.: 813-549-3740
CERTIFICATE OF AUTHORIZATION: 29588
TRACEY L. WEBB, PE NO. 88356

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.



PROJECT
LOCATION



SECTION 21, TOWNSHIP 29 SOUTH, RANGE 15 EAST
SECTION 28, TOWNSHIP 29 SOUTH, RANGE 15 EAST
SECTION 29, TOWNSHIP 29 SOUTH, RANGE 15 EAST

ORB 19562, PG 2134-2139, NON-TAXABLE AGREEMENT NOT TO ENCUMBER OR TRANSFER, NOT PLOTTED

21. THERE ARE ENCROACHMENTS WITH-IN THE PROJECT BOUNDARY. THE CLIENT HAS BEEN NOTIFIED OF SAID ENCROACHMENTS WHICH ARE SHOWN HERE-ON.

ISSUED FOR BIDDING

SOIL BORINGS

SOIL BORINGS				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	BORING
8000	1310744.41	393333.81	2.65'	SBORE A-1
8001	1311130.30	393609.48	18.76'	SBORE A-2
8002	1311442.57	393860.14	27.85'	SBORE A-3
8003	1311320.26	394361.66	31.52'	SBORE A-4
8004	1310825.85	394745.83	36.97'	SBORE A-5
8005	1311059.39	395040.10	39.00'	SBORE A-6
8006	1311216.54	395567.58	39.03'	SBORE A-7
8007	1310867.60	395632.74	42.75'	SBORE A-8
8008	1312000.92	393850.70	12.41'	SBORE A-9
8009	1311762.80	394132.93	25.16'	SBORE A-10
8010	1312318.14	394058.92	15.70'	SBORE A-11
8011	1312275.66	394446.39	28.27'	SBORE A-12
8012	1312395.28	394927.38	35.47'	SBORE A-13
8013	1311554.14	394808.11	34.83'	SBORE A-14
8014	1312087.85	395604.09	36.64'	SBORE A-15
8015	1311638.86	395614.93	38.10'	SBORE A-16
8016	1311315.93	396077.61	41.89'	SBORE A-17
8017	1311944.02	396316.77	39.86'	SBORE A-18
8018	1312716.85	395580.51	37.50'	SBORE A-19
8019	1312926.04	395890.30	27.16'	SBORE A-20

SOIL BORINGS				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	BORING
8020	1312432.62	395907.62	34.96'	SBORE A-21
8021	1312789.47	396235.55	24.39'	SBORE A-22
8022	1313185.17	396270.34	23.17'	SBORE A-23
8023	1313712.93	396596.65	36.71'	SBORE A-24
8024	1314251.36	396152.97	36.41'	SBORE A-25
8025	1313575.19	397291.32	39.10'	SBORE A-26
8026	1314067.44	397072.61	38.78'	SBORE A-27
8027	1313880.79	397722.12	44.74'	SBORE A-28
8028	1314505.05	396592.20	37.40'	SBORE A-29
8029	1315132.26	396432.72	38.39'	SBORE A-30
8030	1314455.45	397618.79	41.08'	SBORE A-31
8031	1314793.01	397165.00	38.92'	SBORE A-32
8032	1314745.62	395800.30	36.26'	SBORE A-33
8033	1315067.43	394901.58	6.69'	SBORE A-34
8034	1314853.05	395087.68	20.67'	SBORE A-35

WETLAND POINTS

WETLAND W1				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	NAME
75500	1310728.21	393408.20	0.00	W1-1
75501	1310718.90	393404.22	0.00	W1-2
75502	1310697.94	393409.86	0.00	W1-3
75503	1310700.79	393379.94	0.00	W1-4
75504	1310711.67	393356.32	0.00	W1-5
75505	1310720.74	393324.17	0.00	W1-6
75506	1310732.55	393292.09	0.00	W1-7
75507	1310748.96	393269.16	0.00	W1-8
75508	1310770.22	393254.31	0.00	W1-9
75509	1310789.71	393287.16	0.00	W1-10
75510	1310772.41	393312.71	0.00	W1-11
75511	1310788.17	393362.30	0.00	W1-12
75512	1310764.92	393400.04	0.00	W1-13

WETLAND W2				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	NAME
75513	1310783.64	393463.52	0.00	W2-1
75514	1310782.90	393447.16	0.00	W2-2
75515	1310795.85	393437.02	0.00	W2-3
75516	1310809.75	393436.13	0.00	W2-4
75517	1310820.21	393444.63	0.00	W2-5
75518	1310824.43	393457.46	0.00	W2-6
75519	1310817.57	393464.03	0.00	W2-7
75520	1310794.91	393467.35	0.00	W2-8

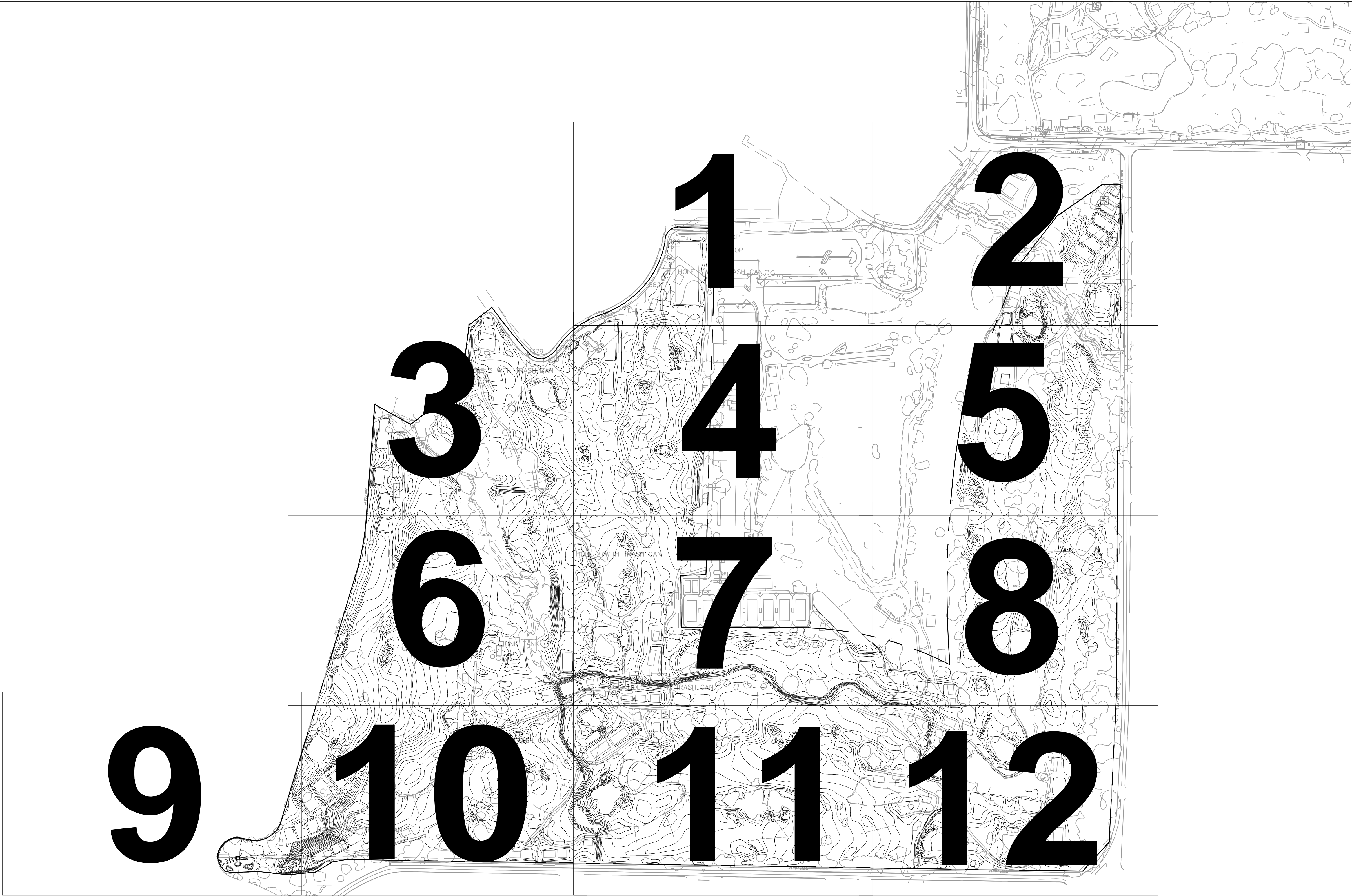
SEASONAL HIGH WATER

SEASONAL HIGH WATER				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
30000	1312831.11	395738.62	35.52'	MHW
30001	1315008.95	396885.44	36.45'	MHW
30002	1314988.60	396131.82	33.92'	MHW
30003	1314958.72	394806.13	5.20'	MHW
30004	1313502.46	396605.55	33.28'	MHW
30005	1313053.57	396146.66	5.80'	MHW
30006	1312746.94	396373.60	8.98'	MHW
30007	1312277.49'	393994.87	8.43'	MHW
30008	1310975.65	394933.83	33.13'	MHW

CONTROL AND BOUNDARY MONUMENTATION

CONTROL AND BOUNDARY POINTS				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
1	1310660.39	396546.79	47.84'	SET MAG NAIL & DISK "LB 7917"
2	1310706.17	394969.31	36.44'	SIRC 5/8" "LB 7917"
3	1310805.07	393606.31	30.20'	SIRC 5/8" "LB 7917"
4	1311578.14	393791.26	24.80'	SIRC 5/8" "LB 7917"
5	1311372.05	394822.35	38.26'	SIRC 5/8" "LB 7917"
6	1311563.25	395799.77	39.38'	SIRC 5/8" "LB 7917"
7	1311639.55	396594.59	45.10'	SET MAG NAIL & DISK "LB 7917"
8	1312430.74	396601.49	29.00'	SIRC 5/8" "LB 7917"
9	1312178.81	395985.53	41.67'	SIRC 5/8" "LB 7917"
10	1312047.89	395231.10	43.78'	SIRC 5/8" "LB 7917"
11	1312170.77	393949.39	22.74'	SIRC 5/8" "LB 7917"
12	1312377.14	394530.82	33.82'	SIRC 5/8" "LB 7917"
13	1312979.00	394992.36	36.14'	SIRC 5/8" "LB 7917"
14	1312636.17	395782.79	39.74'	SIRC 5/8" "LB 7917"
15	1313062.32	396343.00	19.16'	SIRC 5/8" "LB 7917"
16	1313426.97	396089.05	33.28'	SIRC 5/8" "LB 7917"
17	1313332.52	396569.47	36.28'	SIRC 5/8" "LB 7917"
18	1314394.99	396004.38	35.89'	SIRC 5/8" "LB 7917"
19	1314473.36	394339.92	3.65'	SIRC 5/8" "LB 7917"
20	1314994.29	394666.30	6.56'	SIRC 5/8" "LB 7917"
21	1314602.18	395249.87	30.41'	SIRC 5/8" "LB 7917"
22	1314857.86	396003.18	35.09'	SIRC 5/8" "LB 7917"
23	1315326.52	396064.92	34.30'	SIRC 5/8" "LB 7917"
24	1315357.80	397082.39	34.36'	SIRC 5/8" "LB 7917"
25	1314691.50	396575.96	41.14'	SIRC 5/8" "LB 7917"
26	1313889.12	396554.00	37.40'	SIRC 5/8" "LB 7917"
27	1313393.25	397190.16	41.45'	SIRC 5/8" "LB 7917"
28	1314060.27	397226.70	42.99'	SIRC 5/8" "LB 7917"
29	1314758.81	397121.95	39.05'	SIRC 5/8" "LB 7917"
30	1315312.56	397941.84	37.19'	SIRC 5/8" "LB 7917"
31	1314688.67	397869.18	39.68'	SIRC 5/8" "LB 7917"
32	1314065.19	397931.88	43.99'	SIRC 5/8" "LB 7917"
33	1313323.44	397844.86	48.54'	SIRC 5/8" "LB 7917"
34	1314659.03	395999.78	35.76'	SIRC 5/8" "LB 7917"
300	1315397.70	396012.98	0.00'	FND. 4" X 4" CONCRETE MONUMENT
301	1315129.77	396006.13	0.00'	FND. 4" X 4" CONCRETE MONUMENT
302	1314589.22	395997.85	0.00'	FND. 1/2" IRC "LB 6492"
303	1314459.43	395995.73	0.00'	FND. 5/8" IRC "PLS 2043"
304	1314585.37	395066.02	0.00'	FND. 1/2" IRC
305	1314599.17	395369.21	0.00'	FND. 1/4" IR
306	1314838.54	394908.38	0.00'	FND. 1/2" IR
307	1314891.80	394579.17	0.00'	FND. CHISLED "X" IN CONCRETE SEAWALL
314	1315309.31	397429.49	0.00'	FND. 4" X 4" CONCRETE MONUMENT
315	1315023.07	397768.42	0.00'	FND. 1/2" IRC "RLS 2512"
316	1314744.22	397757.01	0.00'	FND. 1/2" IRC "G.F. YOUNG LB 021"
317	1314744.10	397766.31	0.00'	FND. PK NAIL AND DISK "PLS 4821"
318	1314372.09	397872.55	0.00'	FND. 3" X 3" CONCRETE MONUMENT
319	1313968.88	397869.44	0.00'	FND. 1/2" IR
320	1313822.69	397858.17	0.00'	FND. 1/2" IR
321	1313354.48	396557.08	0.00'	FND. 5/8" IR
322	1313354.62	396557.22	0.00'	FND. 1/2" IR
323	1313353.00	396616.12	0.00'	FND. NAIL AND DISK "PLS 4931"
324	1313330.65	396003.40	0.00'	FND. NAIL AND DISK "CFD LB 107"
325	1313089.93	395809.49	0.00'	FND. PK NAIL AND DISK "PCP PLS 4821"
326	1313090.00	395809.37	0.00'	FND. NAIL AND DISK "CFD LB 107"
327	1313076.70	395744.62	0.00'	FND. 6D NAIL, NO IDENTIFICATION

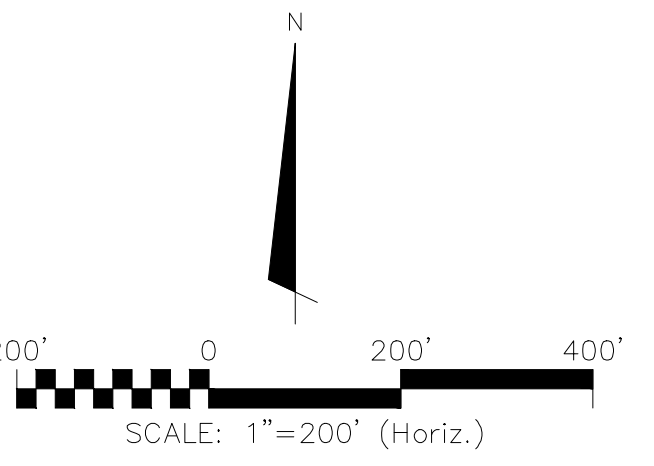
CONTROL AND BOUNDARY POINTS				
Point #	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
328	1313088.04	395684.00	0.00'	FND. MAG NAIL AND DISK "PRM LB 6707"
329	1313087.80	395684.14	0.00'	FND. NAIL AND DISK "LB 5437"
330	1313074.43	395683.60	0.00'	FND. MAG NAIL AND DISK "PRM LB 6707"
331	1313078.99	395670.97	0.00'	FND. MAG NAIL AND DISK "PRM LB 6707"
332	1313082.14	395564.67	0.00'	FND. 5/8" IRC "FDC LB 6707"
333	1313065.12	395452.23	0.00'	FND. MAG NAIL AND DISK "PRM LB 6707"
334	1313067.04	395057.87	0.00'	FND. MAG NAIL AND DISK "PRM FDC LB 6707"
335	1313079.52	395058.12	0.00'	FND. MAG NAIL AND DISK "PRM FDC LB 6707"
336	1312962.66	395055.79	0.00'	FND. MAG NAIL AND DISK "PRM FDC LB 6707"
337	1312890.20	395217.44	0.00'	FND. 5/8" IR
338	1312898.19	395678.75	0.00'	FND. 5/8" IRC
339	1312878.84	395677.92	0.00'	FND. MAG NAIL AND DISK "LB 7252"
340	1312848.72	395742.48	0.00'	FND. 1/2" IR
341	1312855.52	395802.99	0.00'	FND. 1/2" IR
342	1312259.18	396554.65	0.00'	FND. 3" X 3" CONCRETE MONUMENT
343	1312259.65	396545.64	0.00'	FND. 3" X 3" CONCRETE MONUMENT
344	1311380.61	396543.47	0.00'	FND. 1/2" IRC
345	1310825.13	396516.12	0.00'	FND. 3" X 3" CONCRETE MONUMENT
346	1310702.58	396417.16	0.00'	FND. 4" X 4" CONCRETE MONUMENT
347	1310702.78	396403.86	0.00'	FND. 3" X 3" CONCRETE MONUMENT
348	1310753.76	393218.78	0.00'	FND. DRILL HOLE IN CONCRETE SEAWALL
349	1310827.72	393291.04	0.00'	FND. RIVET AND DISK "G.F.Y. LB 021" IN CONCRETE SEAWALL
350	1310820.35	393330.24	0.00'	FND. APPARENT REFERENCE
351	1310816.22	393356.46	0.00'	FND. APPARENT REFERENCE
352	1310883.02	393452.30	0.00'	FND. BROKEN RIVET IN CONCRETE SEAWALL
353	1311793.93	393728.24	0.00'	FND. BROKEN RIVET IN CONCRETE SEAWALL
354	1311988.93	393766.86	0.00'	FND. BROKEN RIVET IN CONCRETE SEAWALL
355	1313082.58	394938.80	0.00'	FND. MAG NAIL AND DISK "PRM FDC LB 6707"
356	1312796.64	394226.12	0.00'	FND. MAG NAIL AND DISK "PRM FDC LB 6707"
357	1312723.22	394148.88	0.00'	FND. 3" X 3" CONCRETE MONUMENT
358	1312498.20	394119.48	0.00'	FND. 3" X 3" CONCRETE MONUMENT
359	1312355.75	393927.47	0.00'	FND. 5/8" IR
360	1312429.09	393800.23	0.00'	FND. RIVET AND DISK "G.F.Y. LB 021" IN CONCRETE SEAWALL
361	1315131.01	395895.16	35.11'	FND. 4" X 4" CONCRETE MONUMENT
362	1315133.54	395669.08	34.99'	FND. 1/2" IRC "PSM 4086"
363	1315134.88	395534.17	34.37'	FND. 1/2" IRC "PSM 4086"
364	1315136.50	395404.31	0.00'	FND. 3" X 3" CONCRETE MONUMENT
365	1315139.93	395097.67	10.66'	FND. 5/8" IRC
366	1314601.64	395213.86	28.72'	FND. 1/2" IR
367	1315028.82	397430.83	37.27'	FND. 3/4" CAPPED IRON PIPE ILLEGIBLE
368	1314374.00	397754.56	40.58'	FND. 3" X 3" CONCRETE MONUMENT
369	1313029.76	394873.48	0.00'	BOUNDARY NOT SET IN CONSTRUCTION
370	1312961.14	395218.34	0.00'	SET MAG NAIL AND DISK "LB 7917"
371	1312886.91	395544.18	0.00'	SET 5/8" IRC "LB 7917"
372	1313364.35	396003.94	0.00'	SET MAG NAIL AND DISK "LB 7917"
373	1315029.00	397427.32	0.00'	SET 5/8" IRC "LB 7917"
374	1313423.88	396030.06	0.00'	SET MAG NAIL AND DISK "LB 7917"
375	1313390.25	397852.17	0.00'	SET 5/8" IRC "LB 7917"
376	1315143.86	394745.82	0.00'	SET MAG NAIL & DISK "LB7917" IN CONCRETE SEAWALL
377	1315328.98	396059.60	0.00'	SET 5/8" IRC "LB 7917"
378	1312787.55	394232.85	0.00'	SET MAG NAIL



SURVEY LEGEND	
CRF	CAPPED REBAR FOUND (1/2")
CRS	CAPPED REBAR SET (1/2")
T.B.M.	TEMPORARY BENCH MARK
RBF	REBAR FOUND
B/L	BUILDING LINE
CL	CENTERLINE
P/L	PROPERTY LINE
-X-	FENCE
R/W	RIGHT-OF-WAY
A.C.	AIR CONDITIONER
T-PED	TELEPHONE PEDESTAL
CATV	CABLE TELEVISION PEDESTAL
	FIRE HYDRANT
P-BOX	POWER BOX
	POWER POLE
	SANITARY SEWER MANHOLE
WM	WATER METER
	WATER VALVE
N/L	NOT LEGIBLE
-W-	UNDERGROUND WATER
-FOC-	UNDERGROUND FIBER OPTIC

ENGINEERING ABBREVIATIONS	
A.L.	APPROXIMATE LOCATION
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
CONC.	CONCRETE
COORD.	COORDINATE
ELEC.	ELECTRICAL
EX./EXIST.	EXISTING
ELEV.	ELEVATION
FFE.	FINISHED FLOOR ELEV.
INV.	INVERT
LAND.	LANDSCAPING
MAX.	MAXIMUM
MIN.	MINIMUM
PLUMB.	PLUMBING
TYP.	TYPICAL

EROSION CONTROL LEGEND	
	TYPE I SILT FENCE
	TYPE II REINFORCED SILT FENCE
	DIVERSION / BERM
	SEDIMENT BASIN BAFFLE
	OUTLET SKIMMER
	SEDIMENTAT BASIN
	ROCK CONSTRUCTION EXIT
	CHANNEL LINING
	10' X 10' RIP RAP DISSIPATION PAD
	5' X 5' RIP RAP DISSIPATION PAD



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE



1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

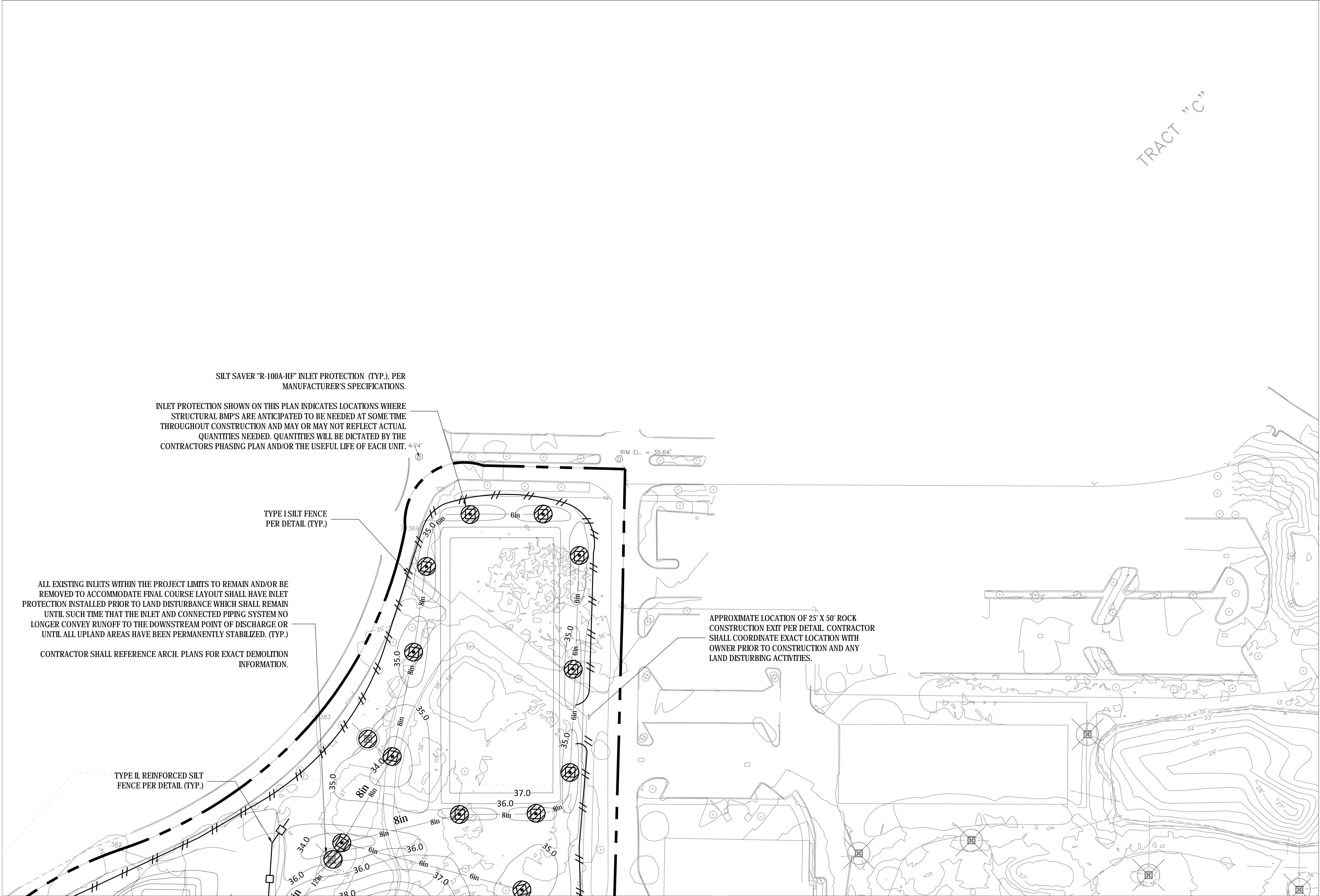
BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLANS
MASTER KEY MAP

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

SCALE	C-1.0 DRAWING NUMBER 00 REVISION
HORIZONTAL:	
VERTICAL:	
N/A	

STATUS:	ISSUED FOR BIDDING
---------	--------------------



SURVEY LEGEND

CRF	CAPPED REBAR FOUND (1/2")
CRS	CAPPED REBAR SET (1/2")
T.B.M.	TEMPORARY BENCH MARK
RBF	REBAR FOUND
B/L	BUILDING LINE
CL	CENTERLINE
P/L	PROPERTY LINE
-X-	FENCE
R/W	RIGHT-OF-WAY
A.C.	AIR CONDITIONER
T-PED	TELEPHONE PEDESTAL
CATV	CABLE TELEVISION PEDESTAL
⦿	FIRE HYDRANT
P-BOX	POWER BOX
⦿	POWER POLE
S	SANITARY SEWER MANHOLE
WM	WATER METER
⦿	WATER VALVE
N/L	NOT LEGIBLE
-W-	UNDERGROUND WATER
-FOC-	UNDERGROUND FIBER OPTIC

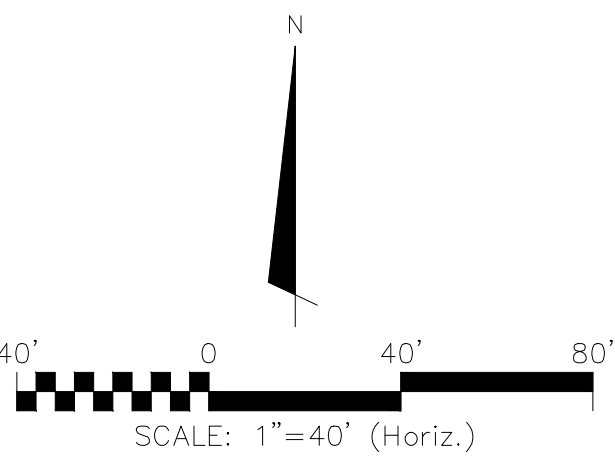
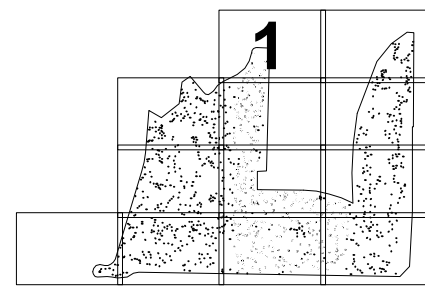
ENGINEERING ABBREVIATIONS

A.L.	APPROXIMATE LOCATION
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
CONC.	CONCRETE
COORD.	COORDINATE
ELEC.	ELECTRICAL
EX./EXIST.	EXISTING
ELEV.	ELEVATION
FFE.	FINISHED FLOOR ELEV.
INV.	INVERT
LAND.	LANDSCAPING
MAX.	MAXIMUM
MIN.	MINIMUM
PLUMB.	PLUMBING
TYP.	TYPICAL

EROSION CONTROL LEGEND

—#—	TYPE I SILT FENCE
—□—	TYPE II REINFORCED SILT FENCE
—>—	DIVERSION / BERM
-X-	SEDIMENT BASIN BAFFLE
—□—	OUTLET SKIMMER
⬜	SEDIMENTAT BASIN
⬜	ROCK CONSTRUCTION EXIT
⬜	CHANNEL LINING
⬜	10' X 10' RIP RAP DISSIPATION PAD
⬜	5' X 5' RIP RAP DISSIPATION PAD

KEY MAP



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE

**McKIM & CREED**

1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

EROSION AND SEDIMENT CONTROL PLAN

DATE: 11/12/20
MCE PROJ. # 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR: TLW

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

C-2.1
DRAWING NUMBER
00
REVISION

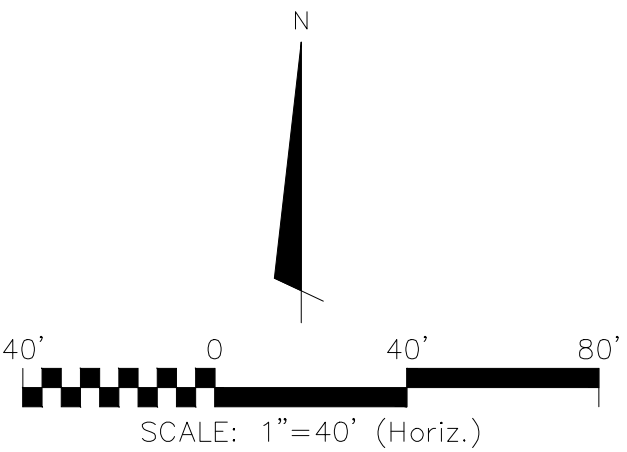
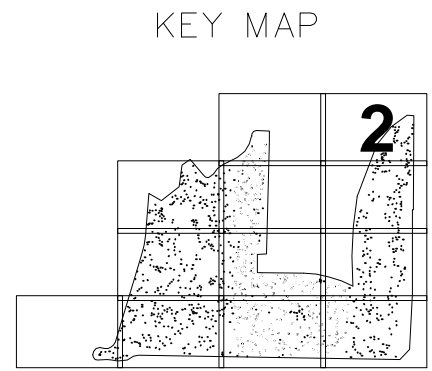
STATUS: **ISSUED FOR BIDDING**



- SURVEY LEGEND**
- | | |
|--------|---------------------------|
| CRF | CAPPED REBAR FOUND (1/2") |
| CRS | CAPPED REBAR SET (1/2") |
| T.B.M. | TEMPORARY BENCH MARK |
| RBF | REBAR FOUND |
| B/L | BUILDING LINE |
| CL | CENTERLINE |
| P/L | PROPERTY LINE |
| -X- | FENCE |
| R/W | RIGHT-OF-WAY |
| A.C. | AIR CONDITIONER |
| T-PED | TELEPHONE PEDESTAL |
| CATV | CABLE TELEVISION PEDESTAL |
| | FIRE HYDRANT |
| P-BOX | POWER BOX |
| | POWER POLE |
| | SANITARY SEWER MANHOLE |
| WM | WATER METER |
| | WATER VALVE |
| N/L | NOT LEGIBLE |
| -W- | UNDERGROUND WATER |
| -FOC- | UNDERGROUND FIBER OPTIC |

- ENGINEERING ABBREVIATIONS**
- | | |
|------------|----------------------|
| A.L. | APPROXIMATE LOCATION |
| APPROX. | APPROXIMATE |
| ARCH. | ARCHITECTURAL |
| CONC. | CONCRETE |
| COORD. | COORDINATE |
| ELEC. | ELECTRICAL |
| EX./EXIST. | EXISTING |
| ELEV. | ELEVATION |
| FFE. | FINISHED FLOOR ELEV. |
| INV. | INVERT |
| LAND. | LANDSCAPING |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| PLUMB. | PLUMBING |
| TYP. | TYPICAL |

- EROSION CONTROL LEGEND**
- | | |
|--|-----------------------------------|
| | TYPE I SILT FENCE |
| | TYPE II REINFORCED SILT FENCE |
| | DIVERSION / BERM |
| | SEDIMENT BASIN BAFFLE |
| | OUTLET SKIMMER |
| | SEDIMENTATION BASIN |
| | ROCK CONSTRUCTION EXIT |
| | CHANNEL LINING |
| | 10' X 10' RIP RAP DISSIPATION PAD |
| | 5' X 5' RIP RAP DISSIPATION PAD |



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

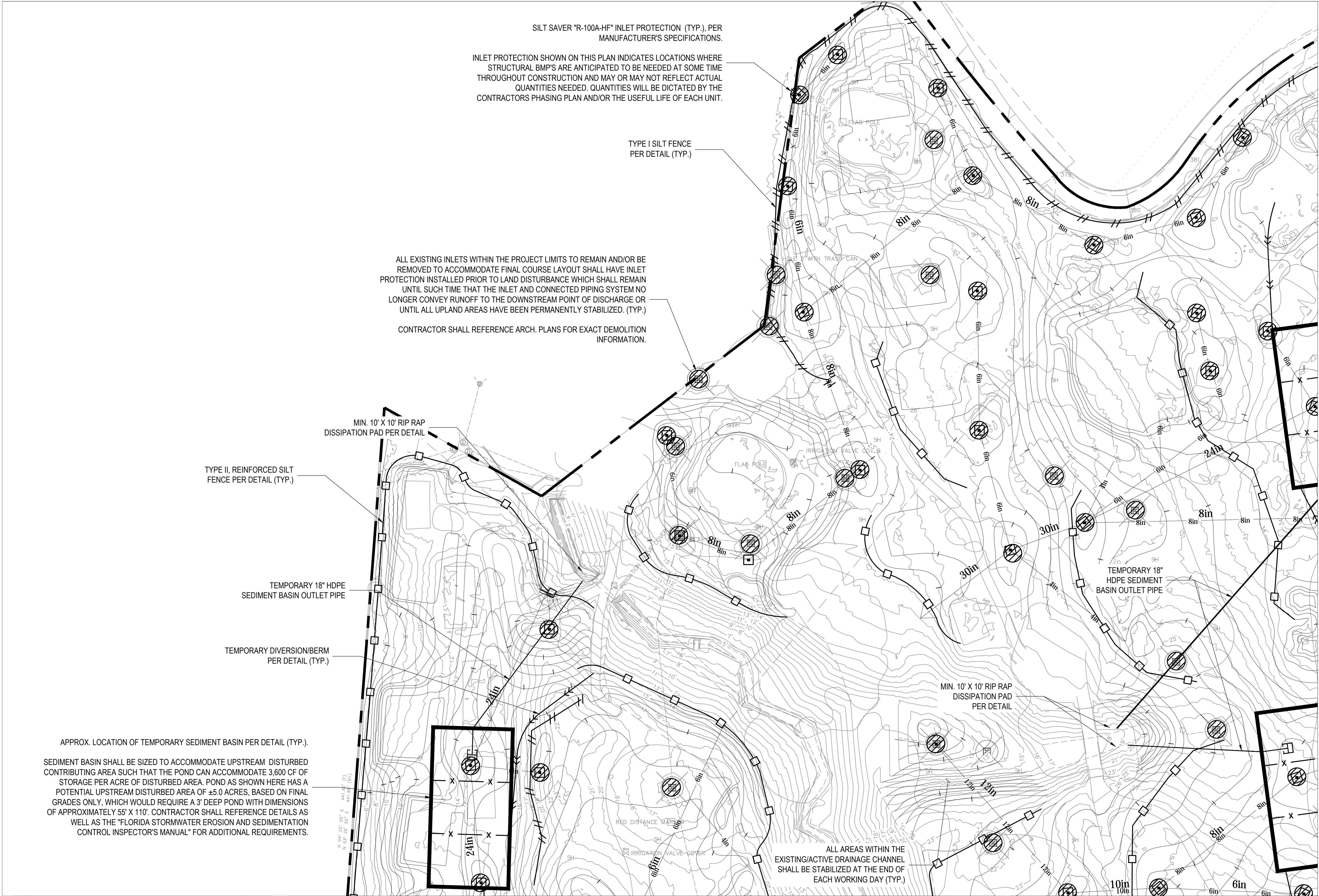
EROSION AND SEDIMENT CONTROL PLAN

DATE: 11/12/20
MCE PROJ. # 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR: TLW

SCALE
HORIZONTAL:
AS NOTED
VERTICAL:
N/A

C-2.2
DRAWING NUMBER
00
REVISION

STATUS:
ISSUED FOR BIDDING



SURVEY LEGEND

CRF	CAPPED REBAR FOUND (1/2")
CRS	CAPPED REBAR SET (1/2")
T.B.M.	TEMPORARY BENCH MARK
RBF	REBAR FOUND
B/L	BUILDING LINE
CL	CENTERLINE
P/L	PROPERTY LINE
-X-	FENCE
R/W	RIGHT-OF-WAY
A.C.	AIR CONDITIONER
T-PED	TELEPHONE PEDESTAL
CATV	CABLE TELEVISION PEDESTAL
⚡	FIRE HYDRANT
P-BOX	POWER BOX
⚡	POWER POLE
S	SANITARY SEWER MANHOLE
WM	WATER METER
Ⓜ	WATER VALVE
N/L	NOT LEGIBLE
-W-	UNDERGROUND WATER
-FOC-	UNDERGROUND FIBER OPTIC

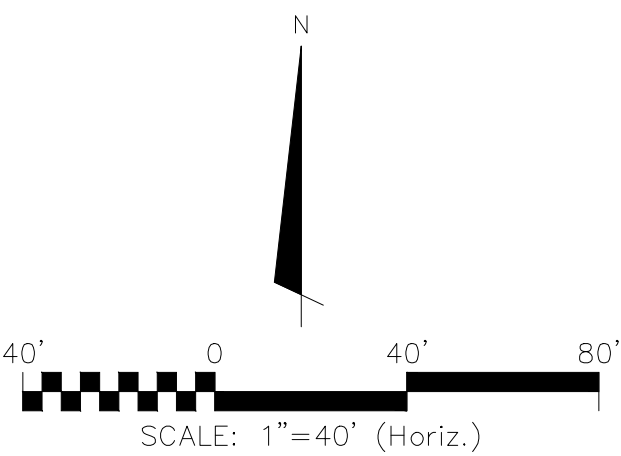
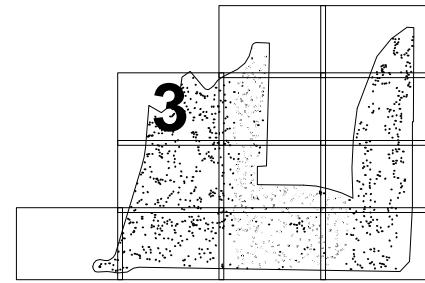
ENGINEERING ABBREVIATIONS

A.L.	APPROXIMATE LOCATION
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
CONC.	CONCRETE
COORD.	COORDINATE
ELEC.	ELECTRICAL
EX./EXIST.	EXISTING
ELEV.	ELEVATION
FFE.	FINISHED FLOOR ELEV.
INV.	INVERT
LAND.	LANDSCAPING
MAX.	MAXIMUM
MIN.	MINIMUM
PLUMB.	PLUMBING
TYP.	TYPICAL

EROSION CONTROL LEGEND

#	TYPE I SILT FENCE
—	TYPE II REINFORCED SILT FENCE
→	DIVERSION / BERM
-X-	SEDIMENT BASIN BAFFLE
□	OUTLET SKIMMER
□	SEDIMENTAT BASIN
⊗	ROCK CONSTRUCTION EXIT
▨	CHANNEL LINING
■	10' X 10' RIP RAP DISSIPATION PAD
■	5' X 5' RIP RAP DISSIPATION PAD
⌋	WINGED ENDWALL

KEY MAP



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

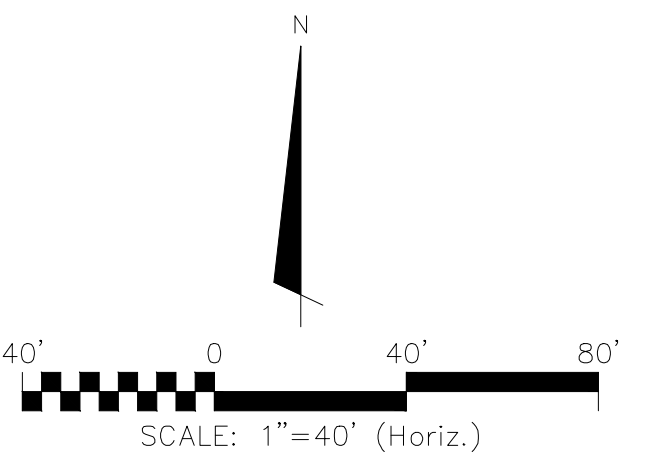
EROSION AND SEDIMENT CONTROL PLAN

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

C-2.3
DRAWING NUMBER
00
REVISION

STATUS: **ISSUED FOR BIDDING**



REV.NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS REVISIONS	12/03/2020

This electronic document is the property of

McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

**DO NOT REMOVE FROM
ELECTRONIC FILE**



McKIM & CREED
 1365 Hamlet Avenue
 Clearwater, Florida 33756
 Phone: (727) 442-7196
 FL Certificate of Authorization# 29588
www.mckimcreed.com

BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLAN

DATE:	11/12/20	SCALE HORIZONTAL: AS NOTED VERTICAL: N/A	C-2.4 DRAWING NUMBER
MCE PROJ. #	07334-0001		
DRAWN	AM		00 REVISION
DESIGNED	MDL		
CHECKED	MDL		
PROJ. MGR.	TLW		

STATUS:

ISSUED FOR BIDDING

CONTRACTOR SHALL REFERENCE ARCH. PLANS FOR EXACT DEMOLITION INFORMATION.

SILT SAVER "R-100A-HF" INLET PROTECTION (TYP.), PER
MANUFACTURER'S SPECIFICATIONS.

INLET PROTECTION SHOWN ON THIS PLAN INDICATES LOCATIONS WHERE STRUCTURAL BMP'S ARE ANTICIPATED TO BE NEEDED AT SOME TIME THROUGHOUT CONSTRUCTION AND MAY OR MAY NOT REFLECT ACTUAL QUANTITIES NEEDED. QUANTITIES WILL BE DICTATED BY THE CONTRACTORS PHASING PLAN AND/OR THE USEFUL LIFE OF EACH UNIT.

TYPE II, REINFORCED SILT
FENCE PER DETAIL (TYP.)

TEMPORARY DIVERSION/BERM
PER DETAIL (TYP.)

TYPE I SILT FENCE
PER DETAIL (TYP.)

C350 PERMANENT ROLLED EROSION CONTROL PRODUCT (RECP). RECP SHALL BE INSTALLED WITHIN CHANNEL AND EXTEND UP BOTH SIDES OF BANK TO AN ELEVATION A MIN. 3' ABOVE BOTTOM OF CHANNEL. REFERENCE DETAIL FOR INSTALLATION REQUIREMENTS.

This electronic document is the property of

McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

**DO NOT REMOVE FROM
ELECTRONIC FILE**



McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLAN

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

STATUS:

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

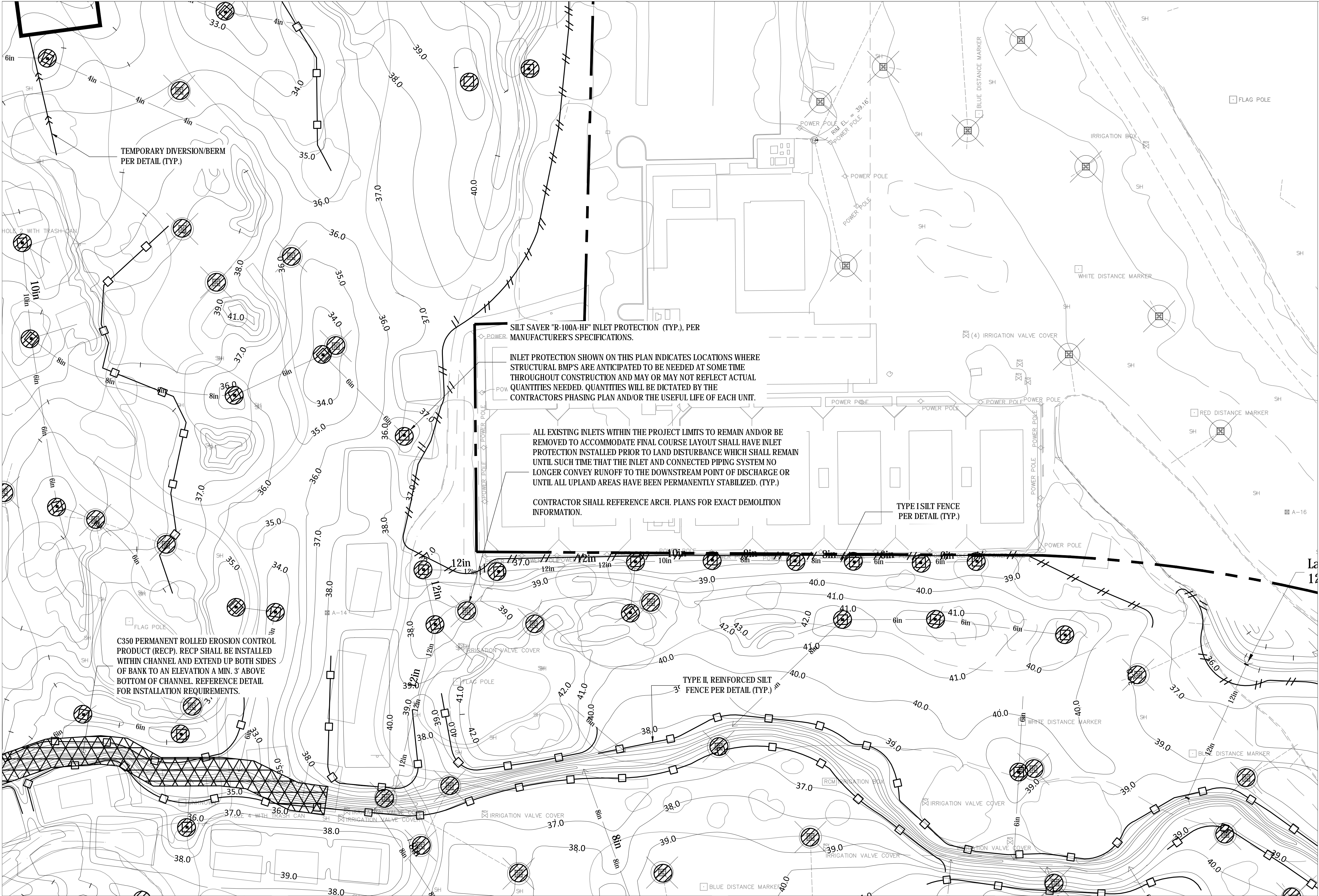
C-2.6

DRAWING NUMBER

0.0

REVISION

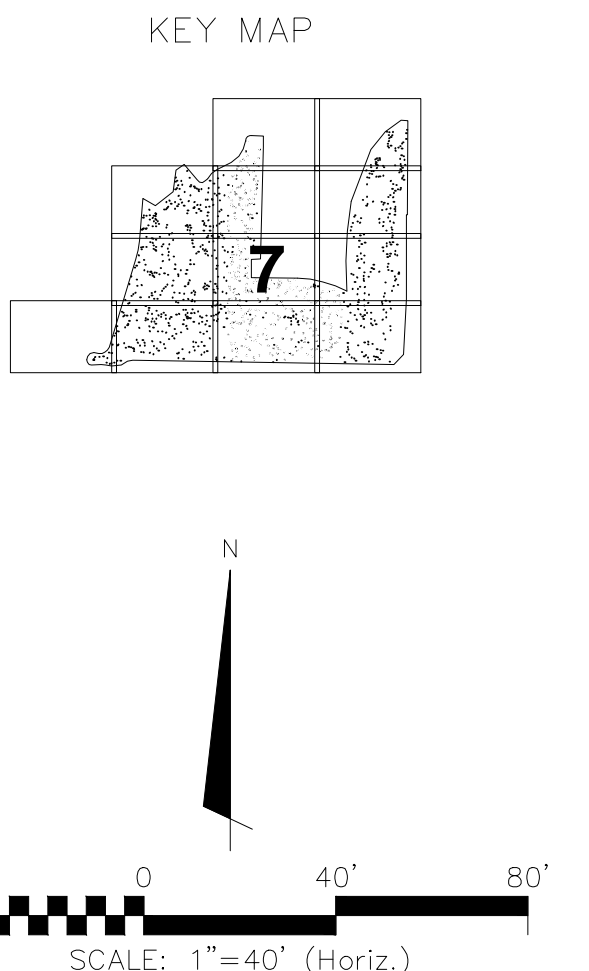
ISSUED FOR BIDDING



- SURVEY LEGEND**
- | | |
|---------|---------------------------|
| CRF | CAPPED REBAR FOUND (1/2") |
| CRS | CAPPED REBAR SET (1/2") |
| T.B.M. | TEMPORARY BENCH MARK |
| RBF | REBAR FOUND |
| B/L | BUILDING LINE |
| C/L | CENTERLINE |
| P/L | PROPERTY LINE |
| — X — | FENCE |
| R/W | RIGHT-OF-WAY |
| A.C. | AIR CONDITIONER |
| T-PED | TELEPHONE PEDESTAL |
| CATV | CABLE TELEVISION PEDESTAL |
| ● | FIRE HYDRANT |
| P-BOX | POWER BOX |
| ○ | POWER POLE |
| S | SANITARY SEWER MANHOLE |
| WM | WATER METER |
| ⊗ | WATER VALVE |
| N/L | NOT LEGIBLE |
| — W — | UNDERGROUND WATER |
| — FOC — | UNDERGROUND FIBER OPTIC |

- ENGINEERING ABBREVIATIONS**
- | | |
|------------|----------------------|
| A.L. | APPROXIMATE LOCATION |
| APPROX. | APPROXIMATE |
| ARCH. | ARCHITECTURAL |
| CONC. | CONCRETE |
| COORD. | COORDINATE |
| ELEC. | ELECTRICAL |
| EX./EXIST. | EXISTING |
| ELEV. | ELEVATION |
| FFE. | FINISHED FLOOR ELEV. |
| INV. | INVERT |
| LAND. | LANDSCAPING |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| PLUMB. | PLUMBING |
| TYP. | TYPICAL |

- EROSION CONTROL LEGEND**
- | | |
|-------|-----------------------------------|
| — # — | TYPE I SILT FENCE |
| — — — | TYPE II REINFORCED SILT FENCE |
| — > — | DIVERSION / BERM |
| — X — | SEDIMENT BASIN BAFFLE |
| — □ — | OUTLET SKIMMER |
| □ | SEDIMENTAT BASIN |
| ▨ | ROCK CONSTRUCTION EXIT |
| ▧ | CHANNEL LINING |
| ■ | 10' X 10' RIP RAP DISSIPATION PAD |
| ■ | 5' X 5' RIP RAP DISSIPATION PAD |



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020

REVISIONS

This electronic document is the property of McKim & Creed, Inc. and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document. DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

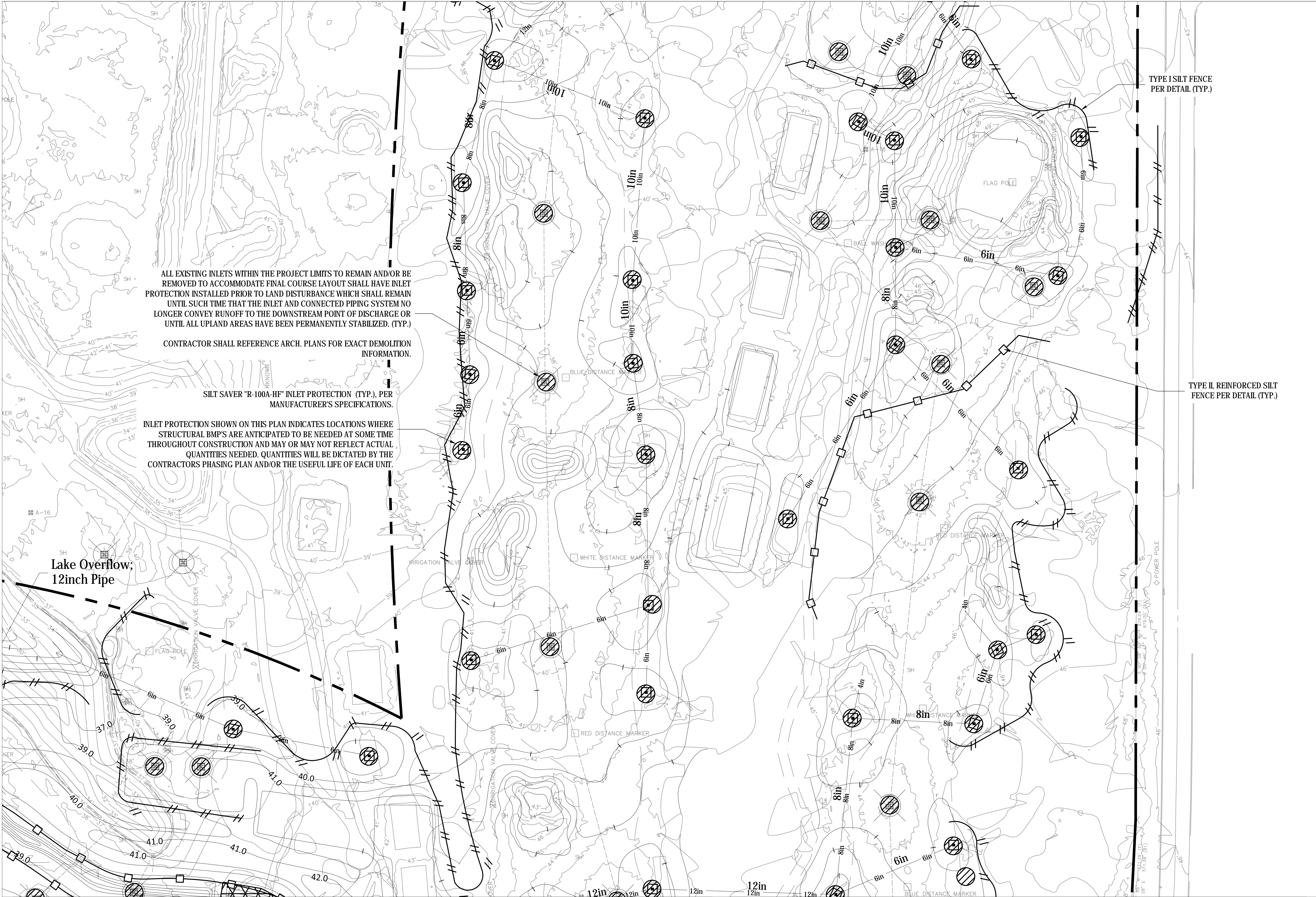
**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**
EROSION AND SEDIMENT CONTROL PLAN

DATE: 11/12/20
MCE PROJ. #: 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR.: TLW

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

C-2.7
DRAWING NUMBER
00
REVISION

STATUS: ISSUED FOR BIDDING



ALL EXISTING INLETS WITHIN THE PROJECT LIMITS TO REMAIN AND/OR BE REMOVED TO ACCOMMODATE FINAL COURSE LAYOUT SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO LAND DISTURBANCE WHICH SHALL REMAIN UNTIL SUCH TIME THAT THE INLET AND CONNECTED PIPING SYSTEM NO LONGER CONVEY RUNOFF TO THE DOWNSTREAM POINT OF DISCHARGE OR UNTIL ALL UPLAND AREAS HAVE BEEN PERMANENTLY STABILIZED. (TYP.)

CONTRACTOR SHALL REFERENCE ARCH. PLANS FOR EXACT DEMOLITION INFORMATION.

SILT SAVER "R-100A-HF" INLET PROTECTION (TYP.), PER MANUFACTURER'S SPECIFICATIONS.

INLET PROTECTION SHOWN ON THIS PLAN INDICATES LOCATIONS WHERE STRUCTURAL BMP'S ARE ANTICIPATED TO BE NEEDED AT SOME TIME THROUGHOUT CONSTRUCTION AND MAY OR MAY NOT REFLECT ACTUAL QUANTITIES NEEDED. QUANTITIES WILL BE DICTATED BY THE CONTRACTORS PHASING PLAN AND/OR THE USEFUL LIFE OF EACH UNIT.

SURVEY LEGEND

- | | |
|--------|---------------------------|
| CRF | CAPPED REBAR FOUND (1/2") |
| CRS | CAPPED REBAR SET (1/2") |
| T.B.M. | TEMPORARY BENCH MARK |
| RBF | REBAR FOUND |
| B/L | BUILDING LINE |
| CL | CENTERLINE |
| P/L | PROPERTY LINE |
| -X- | FENCE |
| R/W | RIGHT-OF-WAY |
| A.C. | AIR CONDITIONER |
| T-PEO | TELEPHONE PEDESTAL |
| CATV | CABLE TELEVISION PEDESTAL |
| ● | FIRE HYDRANT |
| P-BOX | POWER BOX |
| ○ | POWER POLE |
| S | SANITARY SEWER MANHOLE |
| WM | WATER METER |
| W | WATER VALVE |
| N/L | NOT LEGIBLE |
| W | UNDERGROUND WATER |
| FOC | UNDERGROUND FIBER OPTIC |

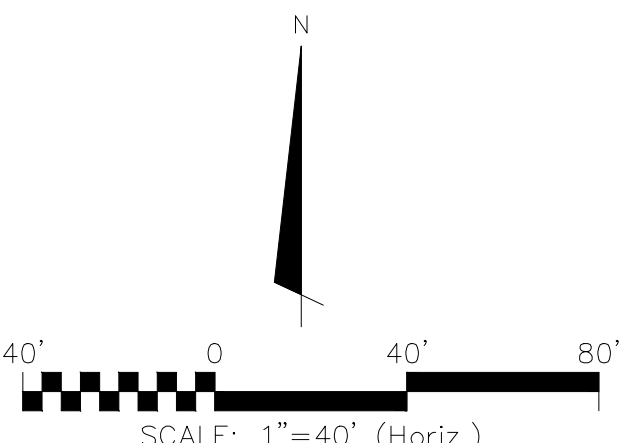
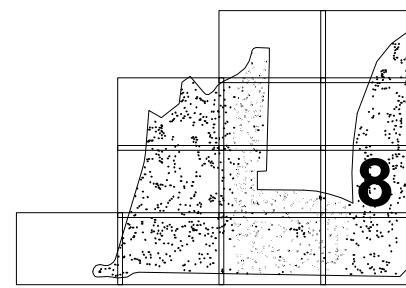
ENGINEERING ABBREVIATIONS

- | | |
|------------|----------------------|
| A.L. | APPROXIMATE LOCATION |
| APPROX. | APPROXIMATE |
| ARCH. | ARCHITECTURAL |
| CONC. | CONCRETE |
| COORD. | COORDINATE |
| ELEC. | ELECTRICAL |
| EX./EXIST. | EXISTING |
| ELEV. | ELEVATION |
| FFE. | FINISHED FLOOR ELEV. |
| INV. | INVERT |
| LAND. | LANDSCAPING |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| PLUMB. | PLUMBING |
| TYP. | TYPICAL |

EROSION CONTROL LEGEND

- | | |
|---|-----------------------------------|
| | TYPE I SILT FENCE |
| | TYPE II REINFORCED SILT FENCE |
| → | DIVERSION / BERM |
| X | SEDIMENT BASIN BAFFLE |
| □ | OUTLET SKIMMER |
| □ | SEDIMENTAT BASIN |
| □ | ROCK CONSTRUCTION EXIT |
| □ | CHANNEL LINING |
| □ | 10' X 10' RIP RAP DISSIPATION PAD |
| ■ | 5' X 5' RIP RAP DISSIPATION PAD |

KEY MAP



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020

REVISIONS

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PLAN

DATE: 11/12/20
MCE PROJ. #: 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR: TLW

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

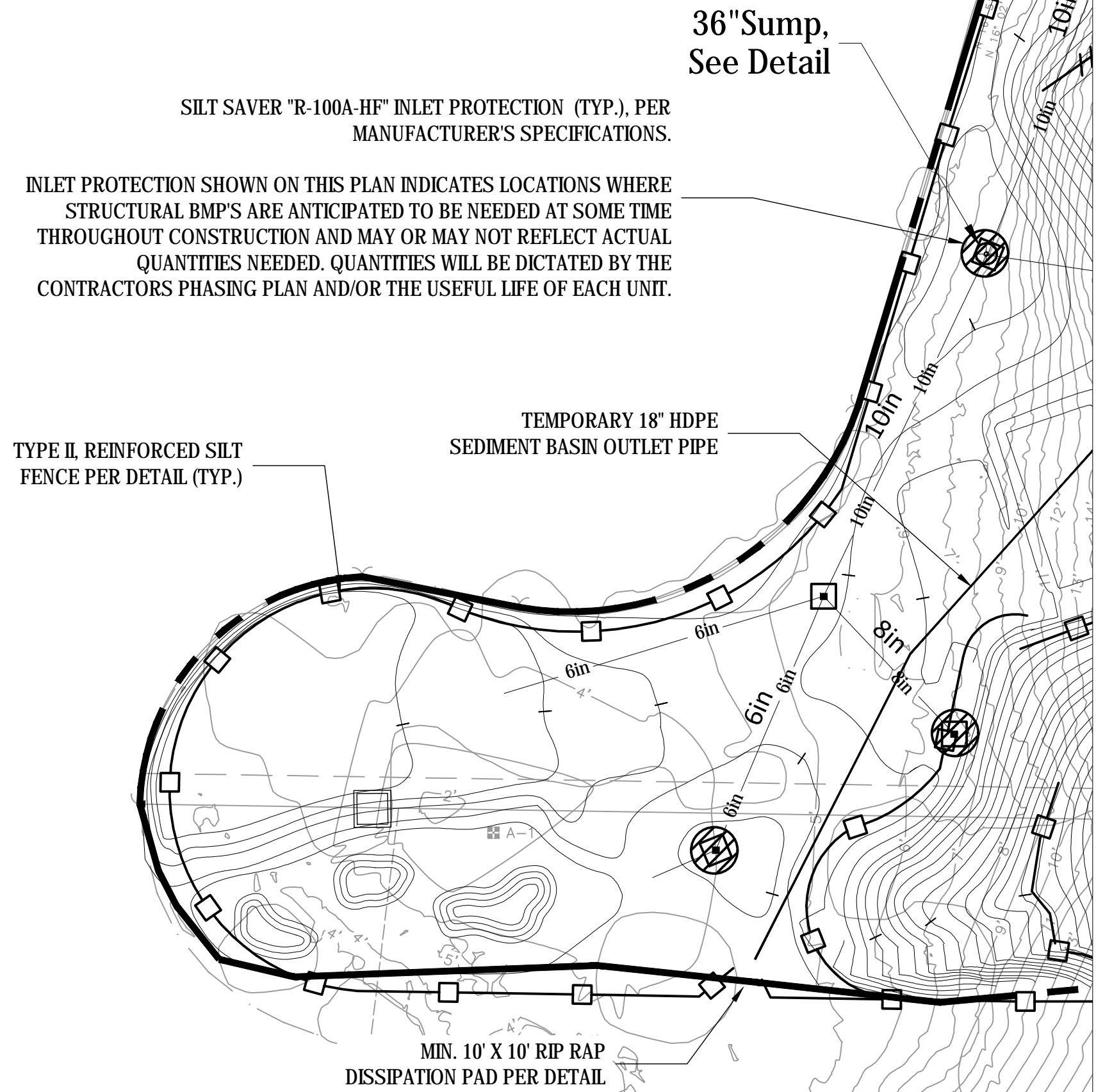
C-2.8

DRAWING NUMBER
00
REVISION

STATUS: ISSUED FOR BIDDING

ALL EXISTING INLETS WITHIN THE PROJECT LIMITS TO REMAIN AND/OR BE REMOVED TO ACCOMMODATE FINAL COURSE LAYOUT SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO LAND DISTURBANCE WHICH SHALL REMAIN UNTIL SUCH TIME THAT THE INLET AND CONNECTED PIPING SYSTEM NO LONGER CONVEY RUNOFF TO THE DOWNSTREAM POINT OF DISCHARGE OR UNTIL ALL UPLAND AREAS HAVE BEEN PERMANENTLY STABILIZED. (TYP.)

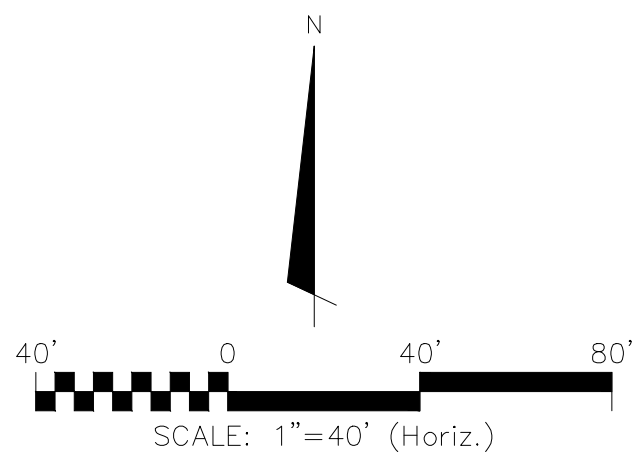
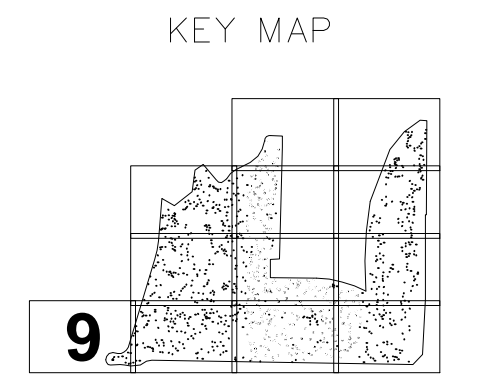
CONTRACTOR SHALL REFERENCE ARCH. PLANS FOR EXACT DEMOLITION INFORMATION.



- SURVEY LEGEND**
- | | |
|----------|---------------------------|
| CRF | CAPPED REBAR FOUND (1/2") |
| CRS | CAPPED REBAR SET (1/2") |
| T.B.M. | TEMPORARY BENCH MARK |
| RBF | REBAR FOUND |
| B/L | BUILDING LINE |
| CL | CENTERLINE |
| P/L | PROPERTY LINE |
| -X- | FENCE |
| R/W | RIGHT-OF-WAY |
| A.C. | AIR CONDITIONER |
| T-PED | TELEPHONE PEDESTAL |
| CATV | CABLE TELEVISION PEDESTAL |
| [Symbol] | FIRE HYDRANT |
| P-BOX | POWER BOX |
| [Symbol] | POWER POLE |
| [S] | SANITARY SEWER MANHOLE |
| WM | WATER METER |
| [W] | WATER VALVE |
| N/L | NOT LEGIBLE |
| -W- | UNDERGROUND WATER |
| -FOC- | UNDERGROUND FIBER OPTIC |

- ENGINEERING ABBREVIATIONS**
- | | |
|------------|----------------------|
| A.L. | APPROXIMATE LOCATION |
| APPROX. | APPROXIMATE |
| ARCH. | ARCHITECTURAL |
| CONC. | CONCRETE |
| COORD. | COORDINATE |
| ELEC. | ELECTRICAL |
| EX./EXIST. | EXISTING |
| ELEV. | ELEVATION |
| FFE. | FINISHED FLOOR ELEV. |
| INV. | INVERT |
| LAND. | LANDSCAPING |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| PLUMB. | PLUMBING |
| TYP. | TYPICAL |

- EROSION CONTROL LEGEND**
- | | |
|----------|-----------------------------------|
| [Symbol] | TYPE I SILT FENCE |
| [Symbol] | TYPE II REINFORCED SILT FENCE |
| [Symbol] | DIVERSION / BERM |
| -X- | SEDIMENT BASIN BAFFLE |
| [Symbol] | OUTLET SKIMMER |
| [Symbol] | SEDIMENTAT BASIN |
| [Symbol] | ROCK CONSTRUCTION EXIT |
| [Symbol] | CHANNEL LINING |
| [Symbol] | 10' X 10' RIP RAP DISSIPATION PAD |
| [Symbol] | 5' X 5' RIP RAP DISSIPATION PAD |



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

DO NOT REMOVE FROM ELECTRONIC FILE

**McKIM & CREED**

1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196

FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

EROSION AND SEDIMENT CONTROL PLAN

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

SCALE
HORIZONTAL:
AS NOTED
VERTICAL:
N/A

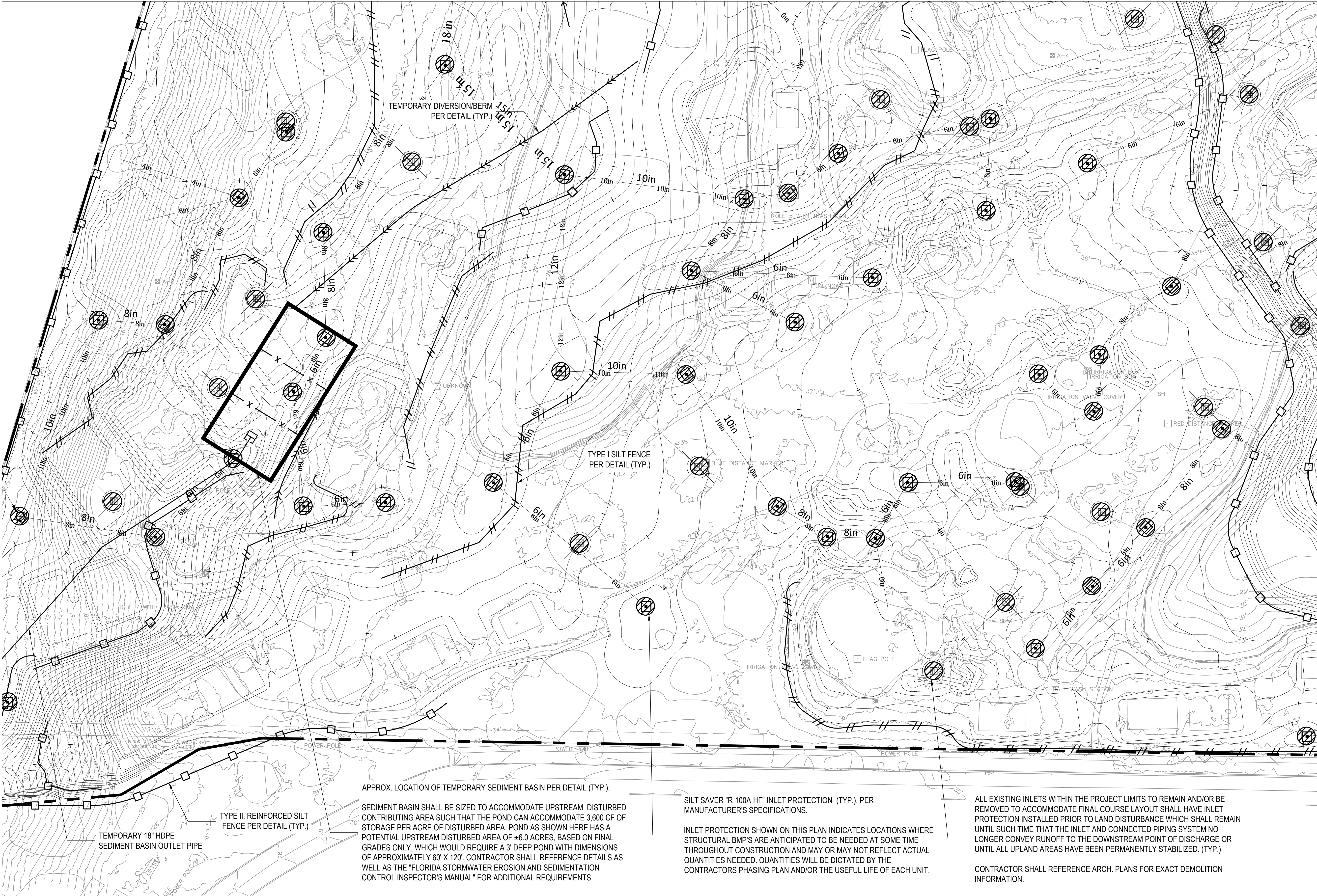
C-2.9

DRAWING NUMBER

00

REVISION

STATUS: **ISSUED FOR BIDDING**



SURVEY LEGEND

- | | |
|--------|---------------------------|
| CRF | CAPPED REBAR FOUND (1/2") |
| CRS | CAPPED REBAR SET (1/2") |
| T.B.M. | TEMPORARY BENCH MARK |
| RBF | REBAR FOUND |
| B/L | BUILDING LINE |
| CL | CENTERLINE |
| P/L | PROPERTY LINE |
| -X- | FENCE |
| R/W | RIGHT-OF-WAY |
| A.C. | AIR CONDITIONER |
| T-PED | TELEPHONE PEDESTAL |
| CATV | CABLE TELEVISION PEDESTAL |
| ● | FIRE HYDRANT |
| P-BOX | POWER BOX |
| ○ | POWER POLE |
| S | SANITARY SEWER MANHOLE |
| WM | WATER METER |
| W | WATER VALVE |
| N/L | NOT LEGIBLE |
| W | UNDERGROUND WATER |
| FOC | UNDERGROUND FIBER OPTIC |

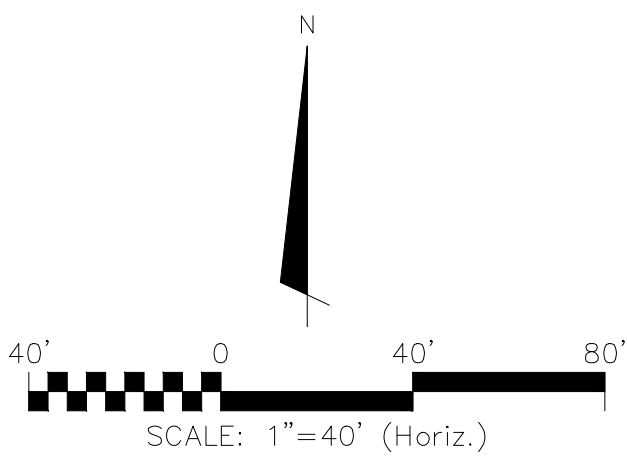
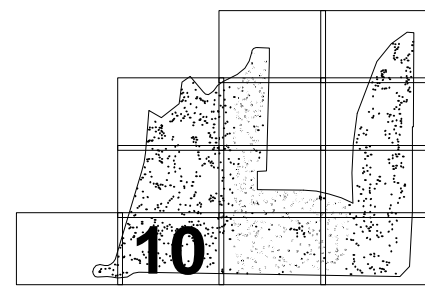
ENGINEERING ABBREVIATIONS

- | | |
|------------|----------------------|
| A.L. | APPROXIMATE LOCATION |
| APPROX. | APPROXIMATE |
| ARCH. | ARCHITECTURAL |
| CONC. | CONCRETE |
| COORD. | COORDINATE |
| ELEC. | ELECTRICAL |
| EX./EXIST. | EXISTING |
| ELEV. | ELEVATION |
| FFE. | FINISHED FLOOR ELEV. |
| INV. | INVERT |
| LAND. | LANDSCAPING |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| PLUMB. | PLUMBING |
| TYP. | TYPICAL |

EROSION CONTROL LEGEND

- | | |
|---|-----------------------------------|
| # | TYPE I SILT FENCE |
| — | TYPE II REINFORCED SILT FENCE |
| → | DIVERSION / BERM |
| x | SEDIMENT BASIN BAFFLE |
| □ | OUTLET SKIMMER |
| □ | SEDIMENTAT BASIN |
| ▨ | ROCK CONSTRUCTION EXIT |
| ▨ | CHANNEL LINING |
| ■ | 10' X 10' RIP RAP DISSIPATION PAD |
| ■ | 5' X 5' RIP RAP DISSIPATION PAD |

KEY MAP



REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE



1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

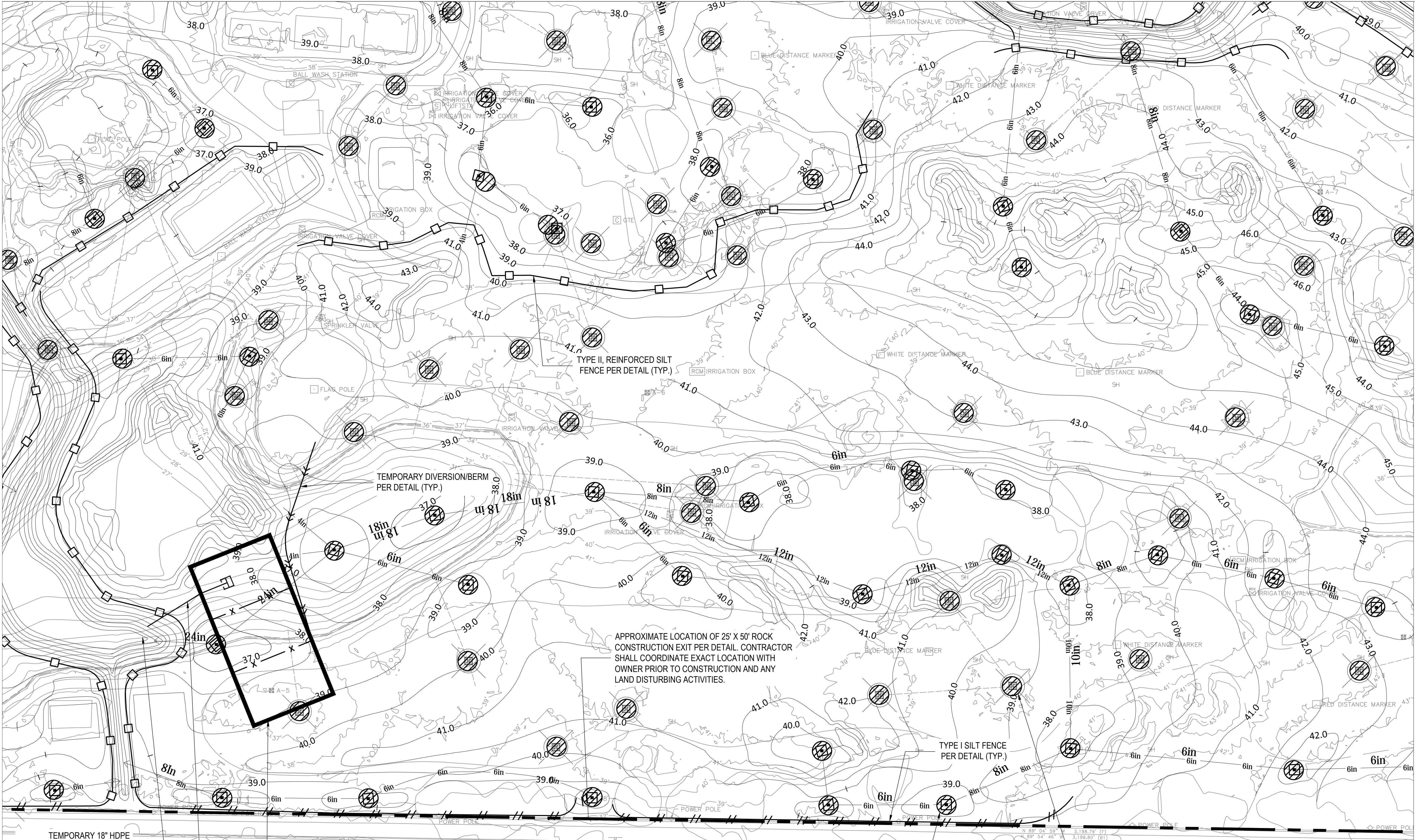
EROSION AND SEDIMENT CONTROL PLAN

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

SCALE
HORIZONTAL:
AS NOTED
VERTICAL:
N/A

C-2.10
DRAWING NUMBER
00
REVISION

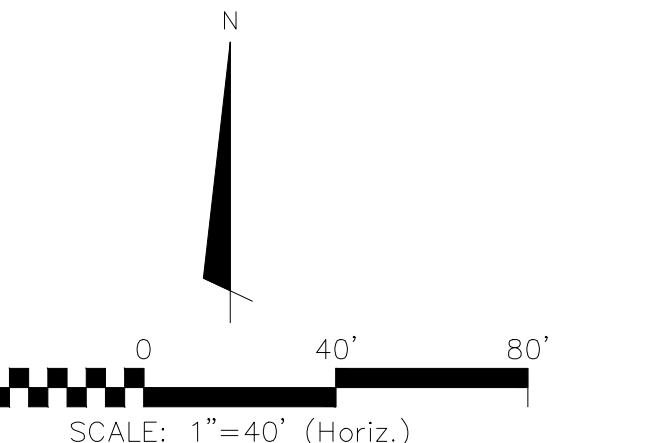
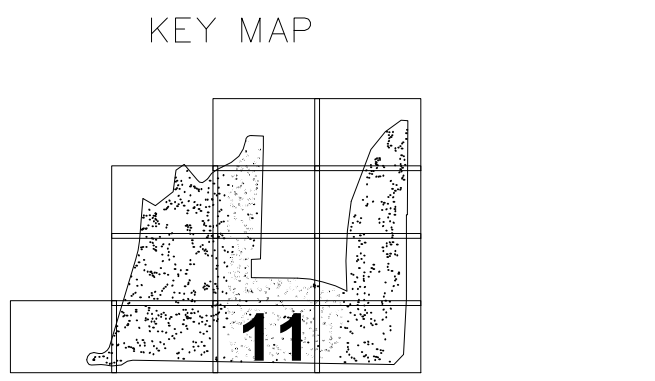
STATUS: ISSUED FOR BIDDING



- SURVEY LEGEND**
- CRF CAPPED REBAR FOUND (1/2")
 - CRS CAPPED REBAR SET (1/2")
 - T.B.M. TEMPORARY BENCH MARK
 - RBF REBAR FOUND
 - B/L BUILDING LINE
 - CL CENTERLINE
 - P/L PROPERTY LINE
 - X- FENCE
 - R/W RIGHT-OF-WAY
 - A.C. AIR CONDITIONER
 - T-PED TELEPHONE PEDESTAL
 - CATV CABLE TELEVISION PEDESTAL
 - FIRE HYDRANT
 - P-BOX POWER BOX
 - PP POWER POLE
 - SS SANITARY SEWER MANHOLE
 - WM WATER METER
 - WV WATER VALVE
 - N/L NOT LEGIBLE
 - UW UNDERGROUND WATER
 - UFO UNDERGROUND FIBER OPTIC

- ENGINEERING ABBREVIATIONS**
- A.L. APPROXIMATE LOCATION
 - APPROX. APPROXIMATE
 - ARCH. ARCHITECTURAL
 - CONC. CONCRETE
 - COORD. COORDINATE
 - ELEC. ELECTRICAL
 - EX./EXIST. EXISTING
 - ELEV. ELEVATION
 - FFE. FINISHED FLOOR ELEV.
 - INV. INVERT
 - LAND. LANDSCAPING
 - MAX. MAXIMUM
 - MIN. MINIMUM
 - PLUMB. PLUMBING
 - TYP. TYPICAL

- EROSION CONTROL LEGEND**
- # TYPE I SILT FENCE
 - TYPE II REINFORCED SILT FENCE
 - DIVERSION / BERM
 - SEDIMENT BASIN BAFFLE
 - OUTLET SKIMMER
 - SEDIMENT BASIN
 - ROCK CONSTRUCTION EXIT
 - CHANNEL LINING
 - 10' X 10' RIP RAP DISSIPATION PAD
 - 5' X 5' RIP RAP DISSIPATION PAD



TEMPORARY 18" HDPE SEDIMENT BASIN OUTLET PIPE

MIN. 10' X 10' RIP RAP DISSIPATION PAD PER DETAIL

APPROX. LOCATION OF TEMPORARY SEDIMENT BASIN PER DETAIL (TYP.).

SEDIMENT BASIN SHALL BE SIZED TO ACCOMMODATE UPSTREAM DISTURBED CONTRIBUTING AREA SUCH THAT THE POND CAN ACCOMMODATE 3,600 CF OF STORAGE PER ACRE OF DISTURBED AREA. POND AS SHOWN HERE HAS A POTENTIAL UPSTREAM DISTURBED AREA OF ±8.0 ACRES, BASED ON FINAL GRADES ONLY, WHICH WOULD REQUIRE A 3' DEEP POND WITH DIMENSIONS OF APPROXIMATELY 70' X 140'. CONTRACTOR SHALL REFERENCE DETAILS AS WELL AS THE "FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL" FOR ADDITIONAL REQUIREMENTS.

SILT SAVER "R-100A-HF" INLET PROTECTION (TYP.), PER MANUFACTURER'S SPECIFICATIONS.

INLET PROTECTION SHOWN ON THIS PLAN INDICATES LOCATIONS WHERE STRUCTURAL BMP'S ARE ANTICIPATED TO BE NEEDED AT SOME TIME THROUGHOUT CONSTRUCTION AND MAY OR MAY NOT REFLECT ACTUAL QUANTITIES NEEDED. QUANTITIES WILL BE DICTATED BY THE CONTRACTOR'S PHASING PLAN AND/OR THE USEFUL LIFE OF EACH UNIT.

ALL EXISTING INLETS WITHIN THE PROJECT LIMITS TO REMAIN AND/OR BE REMOVED TO ACCOMMODATE FINAL COURSE LAYOUT SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO LAND DISTURBANCE WHICH SHALL REMAIN UNTIL SUCH TIME THAT THE INLET AND CONNECTED PIPING SYSTEM NO LONGER CONVEY RUNOFF TO THE DOWNSTREAM POINT OF DISCHARGE OR UNTIL ALL UPLAND AREAS HAVE BEEN PERMANENTLY STABILIZED. (TYP.)

CONTRACTOR SHALL REFERENCE ARCH. PLANS FOR EXACT DEMOLITION INFORMATION.

REV. NO.	DESCRIPTION	DATE
01	ADJUSTED INLET PROTECTION LOCATIONS	12/03/2020

REVISIONS

This electronic document is the property of McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

DO NOT REMOVE FROM ELECTRONIC FILE

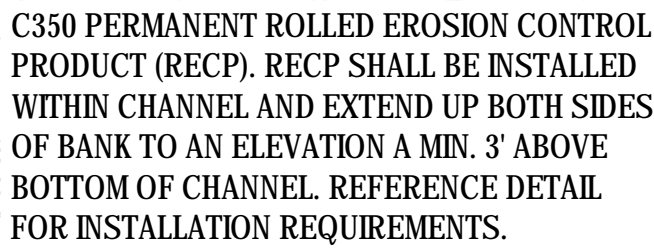
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

EROSION AND SEDIMENT CONTROL PLAN

DATE: 11/12/20	SCALE: HORIZONTAL: AS NOTED	C-2.11 DRAWING NUMBER 00 REVISION
MCE PROJ. # 07334-0001	VERTICAL: N/A	
DRAWN: AM		
DESIGNED: MDL		
CHECKED: MDL		
PROJ. MGR: TLW		

STATUS: **ISSUED FOR BIDDING**



TYPE II, REINFORCED SILT
FENCE PER DETAIL (TYP.)

TYPE I SILT FENCE
PER DETAIL (TYP.)

CONTRACTOR SHALL REFERENCE ARCH. PLANS FOR EXACT DEMOLITION INFORMATION.

This electronic document is the property of





McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

**DO NOT REMOVE FROM
ELECTRONIC FILE**

BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS




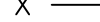






SURVEY LEGEND

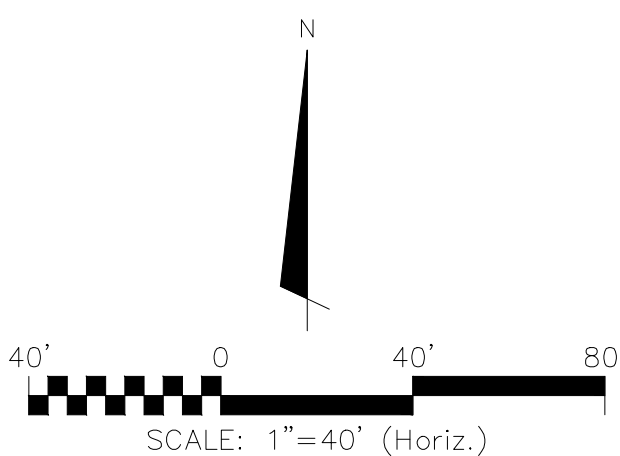
CRF	CAPPED REBAR FOUND (1/2")
CRS	CAPPED REBAR SET (1/2")
T.B.M.	TEMPORARY BENCH MARK
RBF	REBAR FOUND
B/L	BUILDING LINE
CL	CENTERLINE
P/L	PROPERTY LINE
-X-	FENCE
R/W	RIGHT-OF-WAY
A.C.	AIR CONDITIONER
T-PED	TELEPHONE PEDESTAL
CATV	CABLE TELEVISION PEDESTAL
	FIRE HYDRANT
P-BOX	POWER BOX
	POWER POLE
	SANITARY SEWER MANHOLE
WM	WATER METER
	WATER VALVE
N/L	NOT LEGIBLE
—W—	UNDERGROUND WATER
-FOC-	UNDERGROUND FIBER OPTIC

ENGINEERING ABBREVIATIONS

A.L.	APPROXIMATE LOCATION
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
CONC.	CONCRETE
COORD.	COORDINATE
ELEC.	ELECTRICAL
EX./EXIST.	EXISTING
ELEV.	ELEVATION
FFE.	FINISHED FLOOR
	ELEV.
INV.	INVERT
LAND.	LANDSCAPING
MAX.	MAXIMUM
MIN.	MINIMUM
PLUMB.	PUMPING
TYP.	TYPICAL

EROSION CONTROL LEGEND

	TYPE I SILT FENCE
	TYPE II REINFORCED SILT FENCE
	DIVERSION / BERM
	SEDIMENT BASIN BAFFLE
	OUTLET SKIMMER
	SEDIMENTATION BASIN
	ROCK CONSTRUCTION EXIT
	CHANNEL LINING
	10' X 10' RIP RAP DISSIPATION PAD
	5' X 5' RIP RAP DISSIPATION PAD



DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

SCALE

HORIZONTAL:
AS NOTED

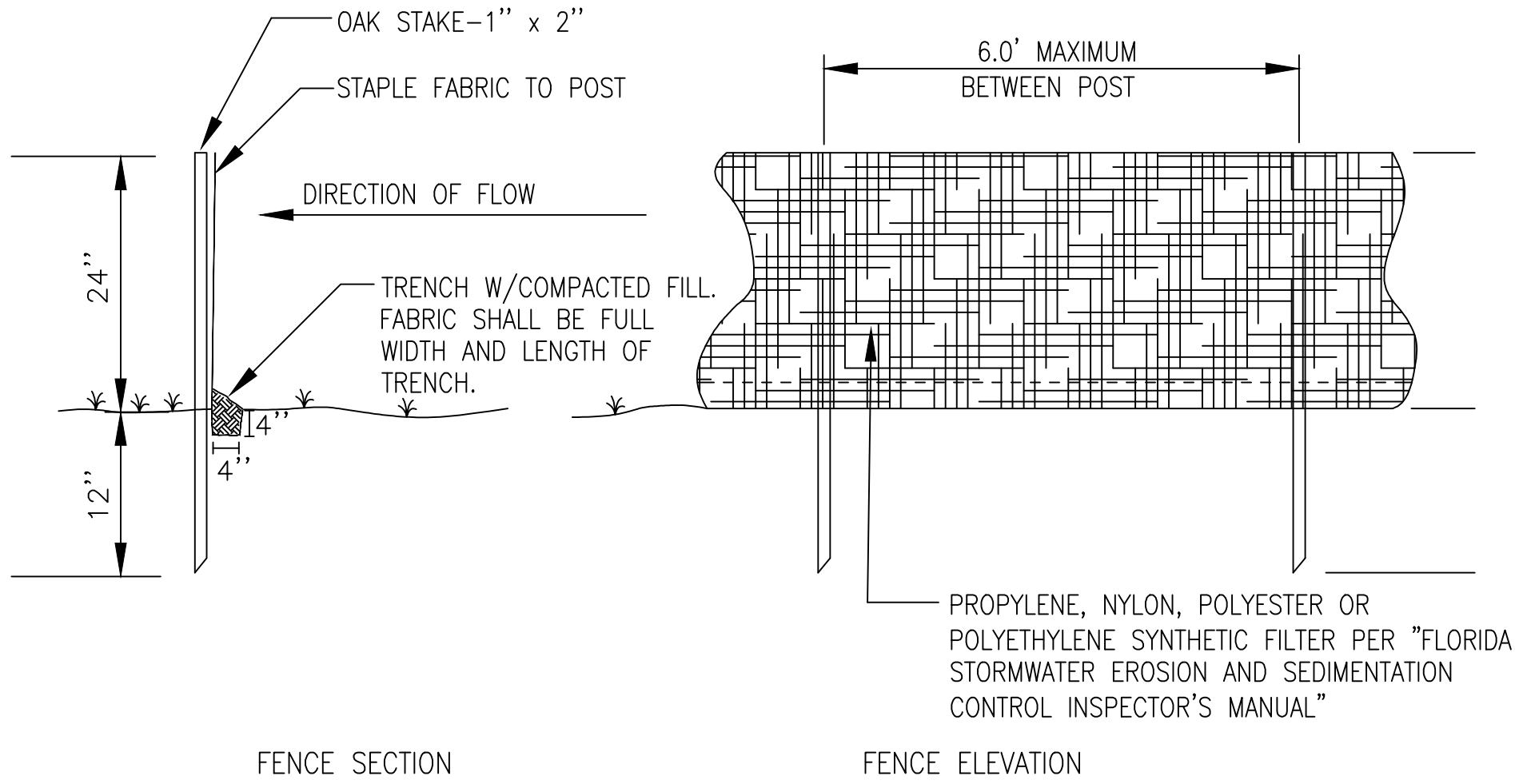
VERTICAL:
N/A

C-2 12

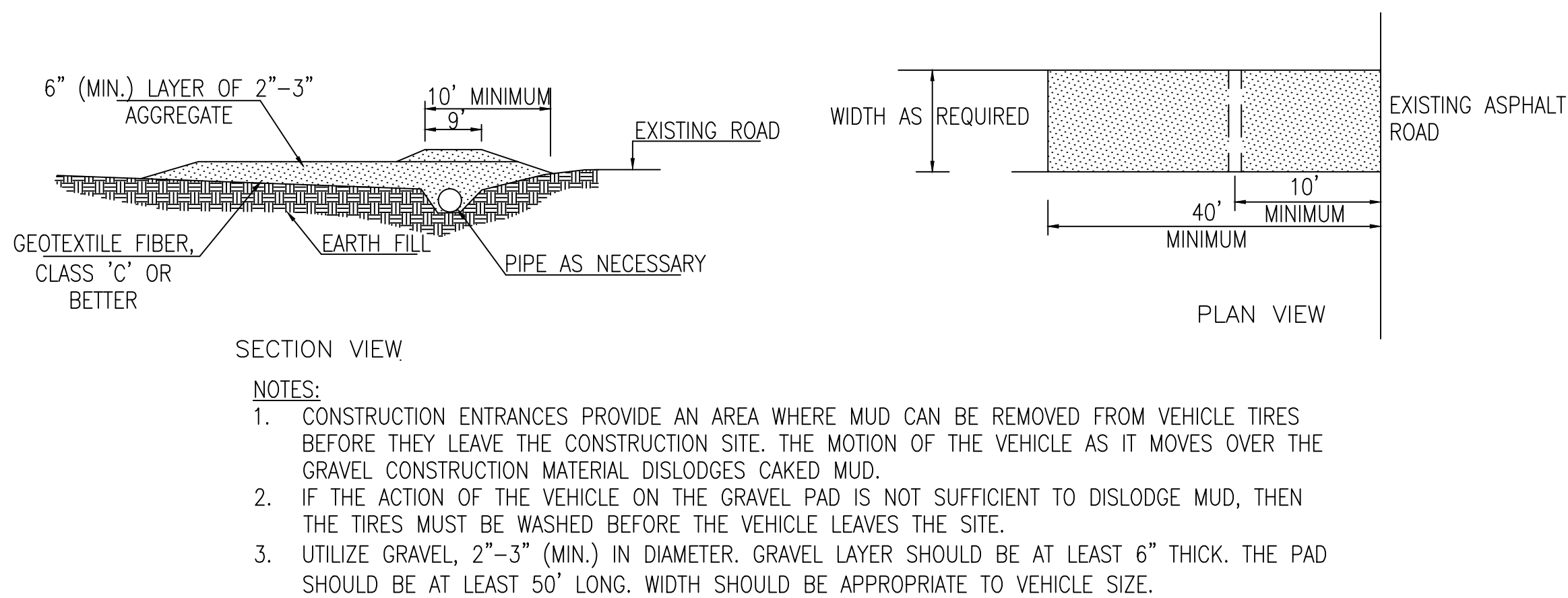
0.0
REVISION

STATUS:

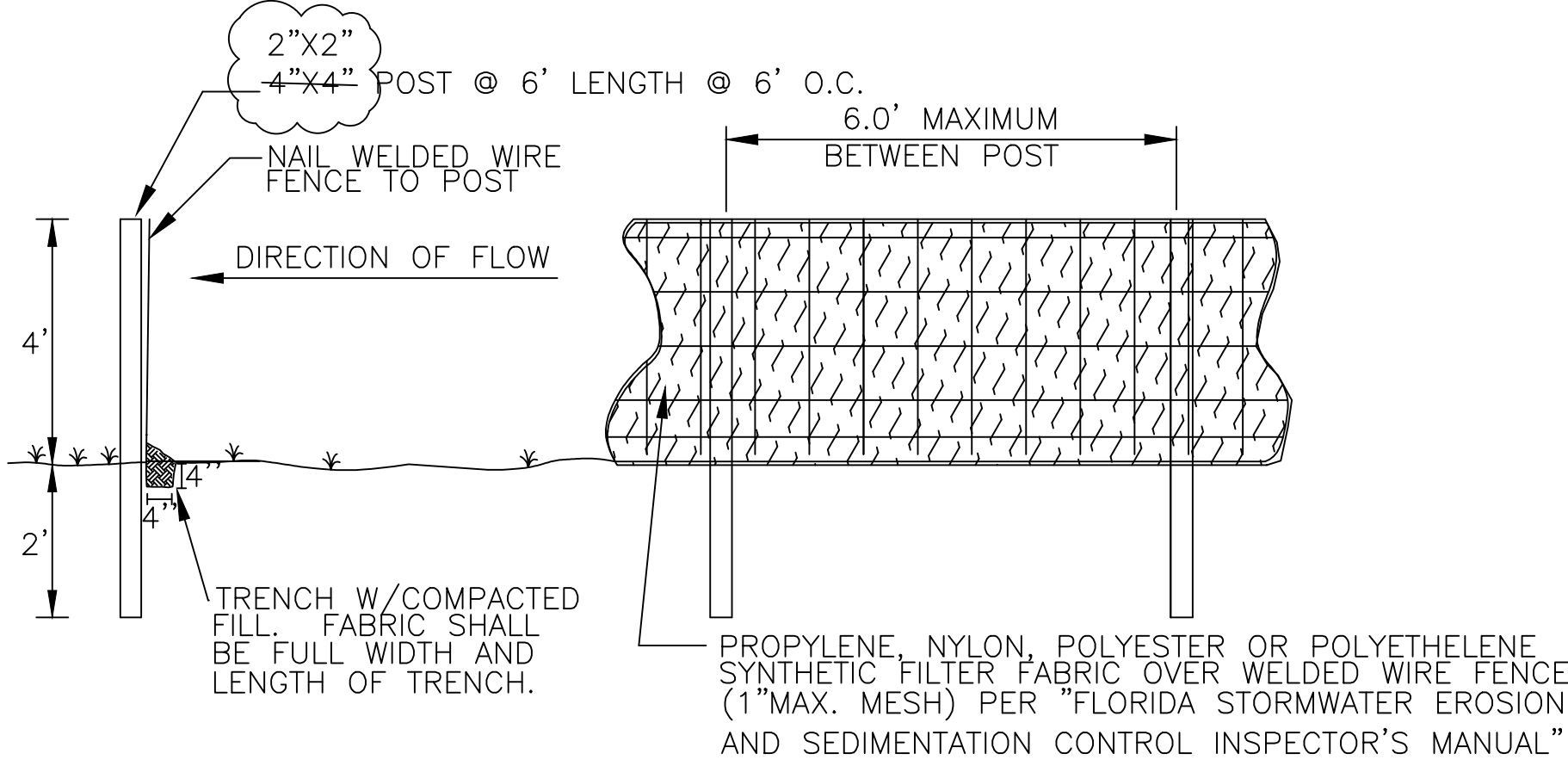
ISSUED FOR BIDDING



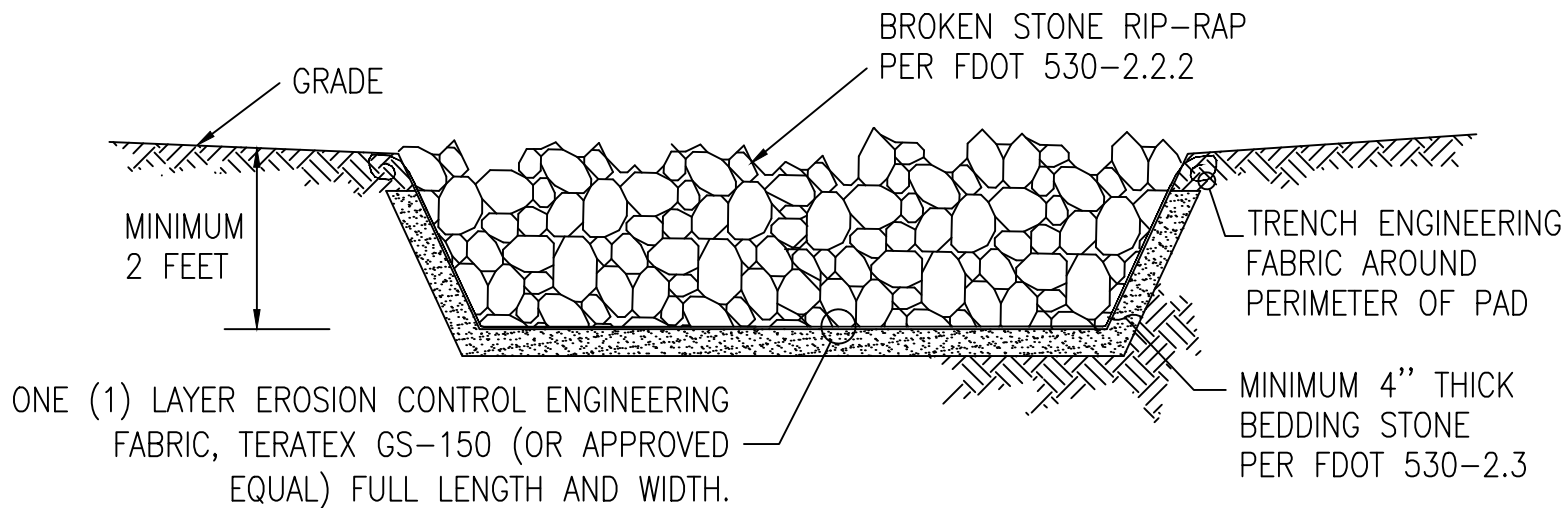
TYPE 1 SILT FENCE **1**
NOT TO SCALE C3.0



ROCK CONSTRUCTION ACCESS **2**
NOT TO SCALE C3.0

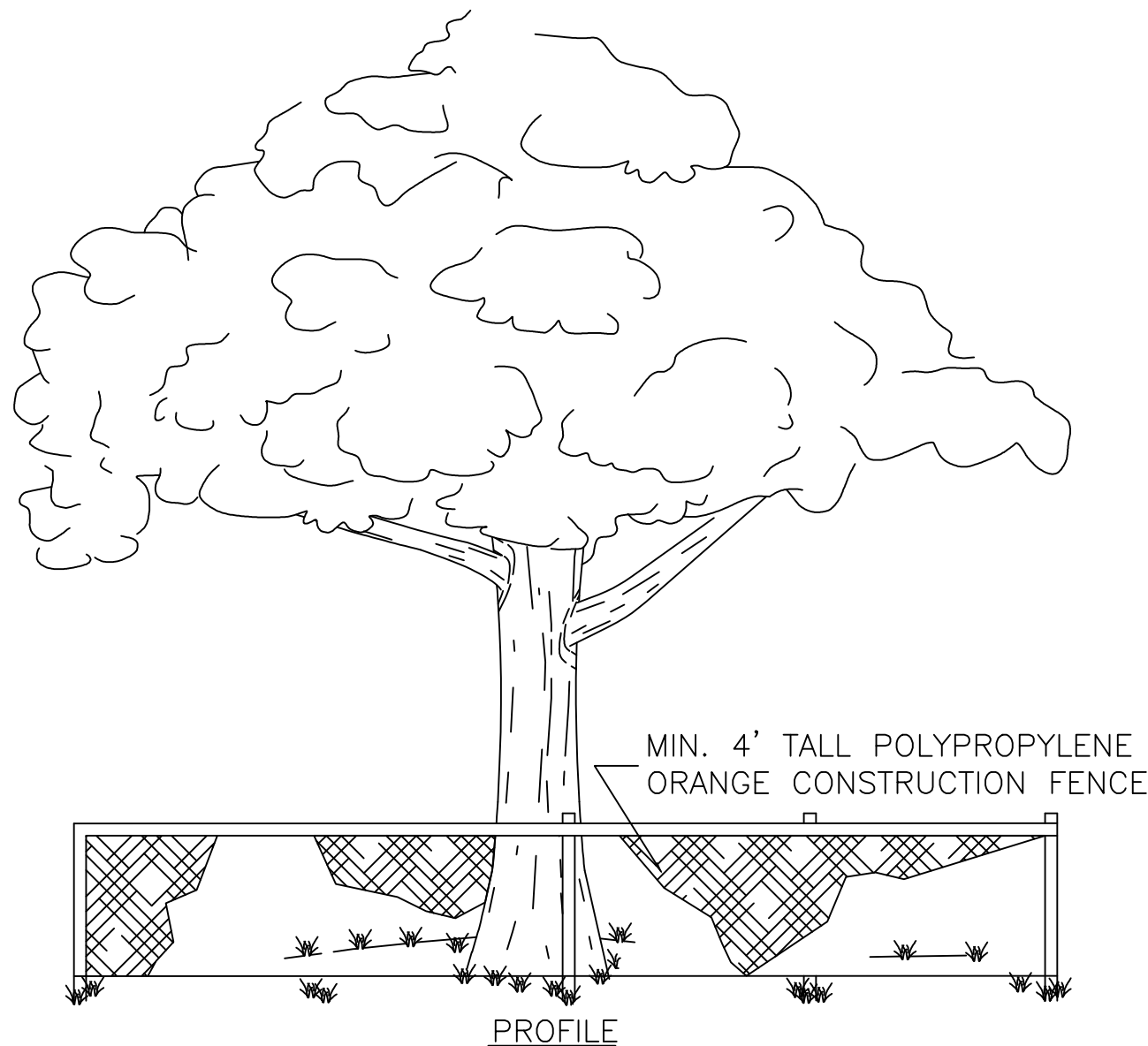


TYPE 2 SILT FENCE **3**
NOT TO SCALE C3.0



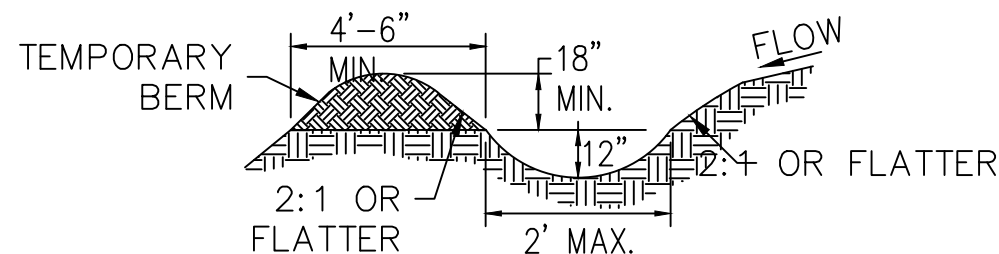
- NOTES:
1. RIP-RAP PAD SHALL NOT BE BROKEN CONCRETE, BROKEN STONE SHALL BE ROUGHLY ANGULAR AND FREE FROM THIN OR ELONGATED PIECES.
 2. TOP OF RIP-RAP SHALL BE FLUSH WITH FINISHED GRADES.
 3. 10' X 10' MIN. HORIZONTAL DIMENSIONS

RIP-RAP PAD **6**
NOT TO SCALE C3.0

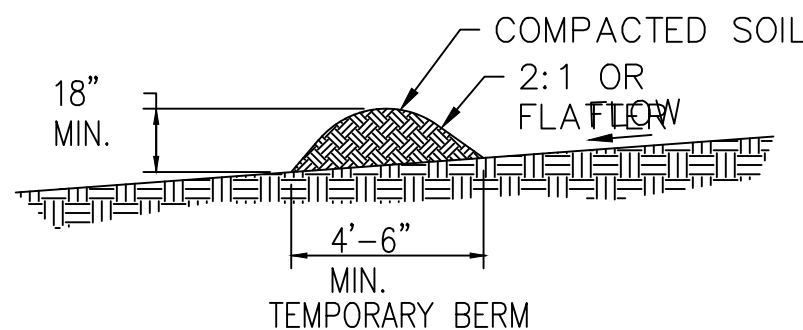


- NOTES:
1. FOR TEMPORARY USE DURING CONSTRUCTION. BARRICADE SHALL BE PLACED PRIOR TO ANY LAND DISTURBANCE.
 2. FENCE MATERIAL SHALL BE PLACED AT THE DRIP LINE OF THE TREE OR GROUP OF TREES TO BE PROTECTED.
 3. NONE OF THE FOLLOWING ACTIVITIES SHALL OCCUR WITHIN THE TREE PROTECTION BARRICADE: DRIVING, PARKING, STORING MATERIALS, DUMPING WASTE, CONCRETE WASHOUT, ADDING FILL SOIL, TRENCHING, REMOVING SOIL OR GRUBBING.
 4. 50% OF THE DRIPLINE REQUIRED TO BE PROTECTED.
 5. CONTRACTOR SHALL REFERENCE ARCHITECT PLANS FOR EXACT LOCATION OF ALL TREES TO BE PROTECTED AND FOR ADDITIONAL REQUIREMENTS. IF REQUIREMENTS CONFLICT WITH THOSE STATED WITHIN THESE PLANS, THE MOST STRINGENT SHALL APPLY.

TREE PROTECTION **4**
NOT TO SCALE C3.0



- NOTES:
1. TEMPORARY DIVERSION DITCH SHALL BE CONSTRUCTED ACROSS THE SLOPE TO INTERCEPT RUNOFF AND DIRECT TO A STABLE OUTLET OR SEDIMENT TRAP
 2. USE IMMEDIATELY ABOVE A NEW CUT OR FILL SLOPE OR AROUND THE PERIMETER OF A DISTURBED AREA AND/OR WHERE INDICATED ON PLANS.
 3. GRADIENT ALONG THE FLOW PATH SHALL HAVE A POSITIVE GRADE TO ASSURE DRAINAGE, BUT SHALL NOT BE SO STEEP AS TO RESULT IN EROSION DUE TO HIGH VELOCITY.



- NOTES:
1. BERMS SHALL HAVE A HEIGHT OF 18", SIDE SLOPES OF 2:1 OR FLATTER, AND A MINIMUM BASE WIDTH OF 4.5'.
 2. BERMS SHALL BE USED TO INTERCEPT AND DIVERT DRAINAGE TO A DESIGNATED OUTLET.
 3. BERMS SHALL NOT BE USED WHERE DRAINAGE AREA EXCEEDS 10 ACRES.

TEMPORARY DIVERSION / BERM **5**
NOT TO SCALE C3.0

GENERAL NOTES FOR EROSION AND SEDIMENT CONTROL

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION (PRIOR TO CONSTRUCTION) AND MAINTENANCE/REPAIRS OF (DURING CONSTRUCTION) EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENT AND EROSION ON THE SITE OF DEVELOPMENT. THE PROVISIONS SHOWN HEREIN REPRESENT THE MINIMUM EROSION CONTROL MEASURES TO BE TAKEN.
2. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE SITE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
3. ALL AREAS OF DISTURBANCE SHALL BE TREATED AS APPROPRIATE TO PREVENT THE GENERATION OF DUST.
4. AT THE TIME OF SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT PERMANENT COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR PERMANENT COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION SHALL BE EMPLOYED (I.E. EROSION CONTROL FABRIC, RIP-RAP, ETC.).
5. THE CONTRACTOR SHALL MAKE REGULAR INSPECTIONS OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS TO ENSURE THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PLAN. AT A MINIMUM, INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM EVENT THAT IS ONE-HALF (0.50) INCH OR GREATER. ALL INSPECTIONS MUST BE DOCUMENTED PER THE NPDES REQUIREMENTS.
6. IN THE EVENT THAT AN ON-SITE INSPECTION BY ANY PARTY REVEALS A DEFICIENCY IN THE INSTALLATION AND/OR MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMEDIATION OF THE PROBLEM.
7. FAILURE TO COMPLY WITH THE REQUIRED EROSION AND SEDIMENT CONTROL GUIDELINES MAY RESULT IN FINES LEVIED BY GOVERNMENTAL AGENCIES. ANY FINES SUFFERED DUE TO NON-COMPLIANCE SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

SEQUENCE OF EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTATION

SITE PREPARATION

1. PRIOR TO ANY SOIL DISTURBANCE, SILT FENCE SHALL BE INSTALLED ALONG ENTIRE DOWN-GRADE PERIMETER OF PROJECT AREA AND/OR PROTECTED TREE LINE, AS SHOWN IN PLANS AND DETAILS, OR BY EQUIVALENT MEASURES. SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL UP-GRADE AREAS OF DISTURBANCE HAVE BEEN PERMANENTLY STABILIZED.
2. A PROPER ROCK CONSTRUCTION EXIT SHALL BE ESTABLISHED AT ALL POINTS OF INGRESS/EGRESS FROM CONSTRUCTION SITE, PER DETAIL PROVIDED IN THE PLANS, OR BY EQUIVALENT MEASURES. ALL CONSTRUCTION EXITS SHALL REMAIN IN PLACE UNTIL INGRESS/EGRESS FROM THE SITE AT THAT POINT HAS STOPPED.

CLEARING AND GRUBBING

1. ALL DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL RECEIVE A TEMPORARY SEEDING IMMEDIATELY UPON DISTURBANCE. TEMPORARY SEEDING SPECIFICATIONS SHALL BE PER THE "FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL" AND "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREA WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE.
2. ALL DISTURBED AREAS THAT ARE SUBJECT TO HIGH AMOUNTS OF EROSION (I.E. STEEP SLOPES, EMBANKMENTS GREATER THAN 3:1, OR OTHER AS DICTATED BY SITE CONDITIONS) SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH MULCHING WITH STRAW, OR EQUIVALENT MATERIAL, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL.
3. ALL DISTURBED AREAS SHALL, AT A MINIMUM, BE MAINTAINED BY WATER TO MINIMIZE THE GENERATION OF DUST.

SITE GRADING

1. THE SITE SHALL, AT ALL TIMES, BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS CONTROLLED BY EROSION AND SEDIMENT CONTROL MEASURES.
2. ALL AREAS USED FOR MATERIAL STOCKPILE, BE IT FILL/EXCAVATED MATERIALS, STONE, OR OTHERWISE, ARE TO BE STABILIZED, AND SHALL HAVE SILT FENCE INSTALLED PER THE DETAILS PROVIDED IN THE PLANS, OR BY EQUIVALENT MEASURES, AROUND THEIR ENTIRE DOWNGRADE PERIMETER.

INSTALLATION OF STORM SEWER AND UTILITIES

1. TEMPORARY OUTLET PROTECTION MUST BE INSTALLED AT ALL PROPOSED STORM WATER OUTFALLS PRIOR TO THE INSTALLATION OF THE DRAINAGE SYSTEM.
2. ALL SITE DRAINAGE, INCLUDING ROOF DRAINS, DOWN SPOUTS, GUTTERS, OR OTHERWISE SHALL BE ROUTED TO CARRY ALL STORM WATER TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM(S).
3. ANY SLOPES GREATER THAN 3:1 (H:V) RECEIVING PIPELINE OR UTILITY INSTALLATION SHALL BE BACKFILLED AND STABILIZED DAILY AS THE INSTALLATION PROCEEDS.

FINAL SITEWORK

1. PERMANENT VEGETATION (I.E. SEED AND MULCH, SOD, ETC) TO BE INSTALLED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
2. UPON COMPLETION OF CONSTRUCTION, BUT PRIOR TO FINAL ACCEPTANCE, ALL CONSTRUCTION WASTE AND DEBRIS SHALL BE REMOVED FROM THE SITE AND ALL PAVED ROADWAYS AND/OR PARKING AREAS SHALL BE SWEEP CLEAN OF ALL SEDIMENT.
3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL SUCH TIME WHEN ALL UP-GRADE AREAS HAVE BEEN PERMANENTLY STABILIZED.

REV. NO.	DESCRIPTION	DATE
01	REVISED TYPE 2 SILT FENCE DETAIL	12/28/2020

REVISIONS

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS**

DETAILS

DATE: 11/12/20
MCE PROJ. # 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR: TLW

SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

C-3.0
DRAWING NUMBER
01
REVISION

STATUS: **ISSUED FOR BIDDING**

ISOMETRIC VIEW
SHOWN WITH ROADWAY PROJECTS FILTER HAT

REPLACEMENT FILTERS: MODEL # R-140

ROUND FRAME & FILTER ASSEMBLY
Model # R-100A

FRAME & FILTER DISCHARGE ANALYSIS

HEAD (FT)	EQUATION USED	OPENING AREA (SF)	FRAME FLOW (CFS)	FILTER AREA (SF)	FILTERED FLOW (CFS)
0.5	O	2.1	7	6	2
1.0	O	3.9	19	12	3
1.5	O	7.0	41	18	5
2.0	O	8.0	54	24	7
2.5	O	9.2	70	30	9
3.0	O	9.2	77	—	77

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.

FILTER MATERIAL ALLOWS 139 gpm/SF OR 0.29cfs/SF
ORIFICE EQUATION (O) = $Q=0.6A(2gh)^{0.5}$
P = FEET PERIMETER
h = HEAD IN FEET
Q = CAPACITY IN cfs
A = FREE OPEN AREA OF FRAME
g = 32.2 FEET-PER-SECOND/SECOND

FRAME MATERIAL: BLACK 0.25" HMWPE
FILTER FABRIC MATERIAL: REFER TO SPEC
SCALE: NOT TO SCALE
LAST UPDATED: APRIL 2010

GREEN HIGH-FLOW MATERIAL
GRAY HIGH-EFFICIENCY MATERIAL
POCKET FILLED w/ ROCK FOR WEIGHT, ROCK PROVIDED BY PURCHASER.

FILTER OPTIONS
FILTER HAT IS AVAILABLE IN THREE OPTIONS:
1) ALL HIGH-FLOW MATERIAL
2) ALL HIGH-EFFICIENCY MATERIAL
3) HIGH-FLOW MATERIAL ON TOP HALF OF HAT, HIGH-EFFICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER HAT. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER HAT INSTALLATION:
FILTER HAT SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER HAT MATERIAL. EVERY FILTER HAT COMES IN ONE PIECE FOR EASY INSTALLATION.

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT R-100A DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.

SPECIFICATIONS
FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.

SILT-SAVER, INC. 1094 CULPEPPER DRIVE, CONYERS, GA 30094 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.silt-saver.com

STORM WATER INLET PROTECTION

NOT TO SCALE

1

C3.1

MOUNTABLE CONCRETE CURB
DETAIL A
NOT TO SCALE

TYPICAL GOLF CART PATH SECTION

NOT TO SCALE

NOTES:

- LOCATION OF CURBS NOT SHOWN ON PLANS. CURB LOCATIONS SHALL BE NEAR GREENS, TEE BOXES AND NEEDED FOR CART TRAFFIC CONTROL AS DIRECTED BY THE COURSE SUPERINTENDENT.
- IF CURB IS NOT INSTALL MONOLITHICALLY WITH PATH, PROVIDE 1/2" JOINT WITH PREFORMED JOINT FILLER.

REV. NO.	DESCRIPTION	DATE
01	REVISED TYPICAL PATH DETAIL	12/28/2020
REVISIONS		

This electronic document is the property of
McKim & Creed, Inc.
and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.
DO NOT REMOVE FROM ELECTRONIC FILE

McKIM & CREED

1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

VIEW LOOKING UPSTREAM

SECTION A - A

L' = THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF EQUAL ELEVATION.

SPACING BETWEEN CHECK DAMS

SWALE PROTECTION - ROCK CHECK DAMS

NOT TO SCALE

3

C3.1

FRONT ELEVATION

SECTION RR

PLAN

CONCRETE ENDWALL WITH U-TYPE WINGS FOR PIPE CULVERTS

FRONT ELEVATION

SECTION NN

PLAN

CONCRETE ENDWALL WITH 45° WINGS FOR PIPE CULVERTS

TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES
PIPE CULVERT ENDWALLS WITH U-TYPE WINGS

DIMENSIONS		QUANTITIES IN ONE ENDWALL									
Wall		Footing		Concrete, Class I, Total (CY)						Steel Tie Bars	
Opening	Area (ft²)	G	H	K	F	J	RCP Inlet	CMP Outlet	CIP Inlet	CIP Outlet	
12"	0.8	3'-8"	2'-0"	1'-0"	1'-3"	2'-2"	0.48	0.55	0.49	0.57	0.59
15"	1.2	3'-11"	2'-3"	1'-5"	1'-3"	2'-2"	0.59	0.67	0.62	0.70	0.61
18"	1.8	4'-2"	2'-6"	1'-9"	1'-3"	2'-11"	0.70	0.79	0.74	0.82	0.74
24"	3.1	4'-8"	3'-0"	2'-6"	1'-6"	3'-8"	1.01	1.11	1.06	1.16	1.06
30"	4.9	5'-2"	3'-6"	3'-3"	1'-6"	4'-5"	1.33	1.44	1.41	1.51	1.40
36"	7.1	5'-8"	4'-0"	4'-0"	1'-9"	5'-2"	1.73	1.85	1.84	1.96	1.82
42"	9.6	6'-2"	4'-6"	4'-9"	2'-0"	5'-11"	2.19	2.32	2.32	2.45	2.34
48"	12.6	6'-6"	5'-0"	5'-6"	2'-0"	6'-8"	2.64	2.78	2.81	2.95	2.84

TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES
PIPE CULVERT ENDWALLS WITH 45° WINGS

DIMENSIONS		QUANTITIES IN ONE ENDWALL									
Wall		Footing		Concrete, Class I, Total (CY)						Steel Tie Bars	
Opening	Area (ft²)	H	G	L	M	F	RCP	CMP	CIP	CIP	
15"	1.2	2'-3"	3'-2"	1'-0"	1'-3"	1'-3"	0.56	0.59	0.59	0.59	none
18"	1.8	2'-6"	3'-10"	1'-2"	1'-2"	1'-3"	0.74	0.77	0.77	0.77	none
24"	3.1	3'-0"	4'-4"	1'-5"	2'-1"	1'-4"	1.01	1.06	1.06	1.06	2 - #6 Bars x 2'-0"
30"	4.9	3'-6"	4'-10"	1'-9"	2'-5"	1'-6"	1.32	1.40	1.39	1.39	2 - #6 Bars x 2'-0"
36"	7.1	4'-0"	5'-4"	2'-0"	2'-11"	1'-8"	1.72	1.83	1.82	1.82	2 - #6 Bars x 2'-0"
42"	9.6	4'-6"	5'-10"	2'-3"	3'-4"	2'-0"	2.34	2.47	2.46	2.46	2 - #6 Bars x 2'-0"
48"	12.6	5'-0"	6'-4"	2'-6"	4'-0"	2'-0"	2.74	2.90	2.89	2.89	2 - #6 Bars x 2'-0"

GENERAL NOTES

- Winged concrete endwalls are intended for use outside the clear zone.
- Chamfer all exposed edges 3/4".
- Concrete shall be Class I, except ASTM C478 (4000 psi) Concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
- Endwall to be paid for under the contract unit price for Class I Concrete.
- Sodding to be in accordance with Index 524-001, and paid for under the contract unit price for Performance Turf, 5V.

LAST REVISION 11/01/17

DESCRIPTION:

FDOT

FY 2019-20
STANDARD PLANS

WINGED CONCRETE ENDWALLS SINGLE ROUND PIPE

INDEX 430-040

SHEET 1 of 1

FDOT WINGED END WALL DETAIL

NOT TO SCALE

4

C3.1

BELLEAIR COUNTRY CLUB
WEST COURSE IMPROVEMENTS

DETAILS

DATE: 11/12/20
MCE PROJ. # 07334-0001
DRAWN: AM
DESIGNED: MDL
CHECKED: MDL
PROJ. MGR: TLW

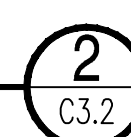
SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

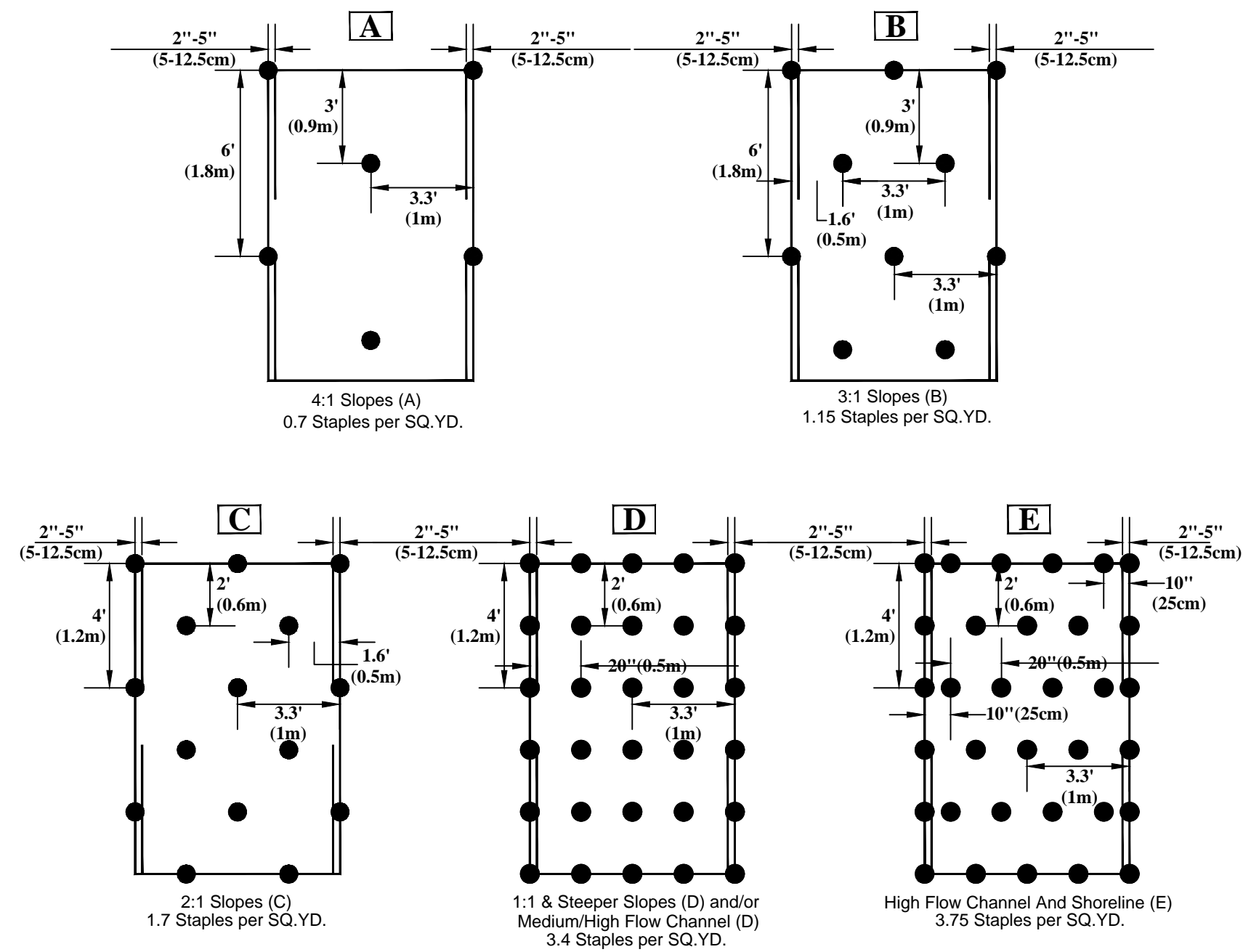
C-3.1
DRAWING NUMBER
01
REVISION

STATUS:
ISSUED FOR BIDDING



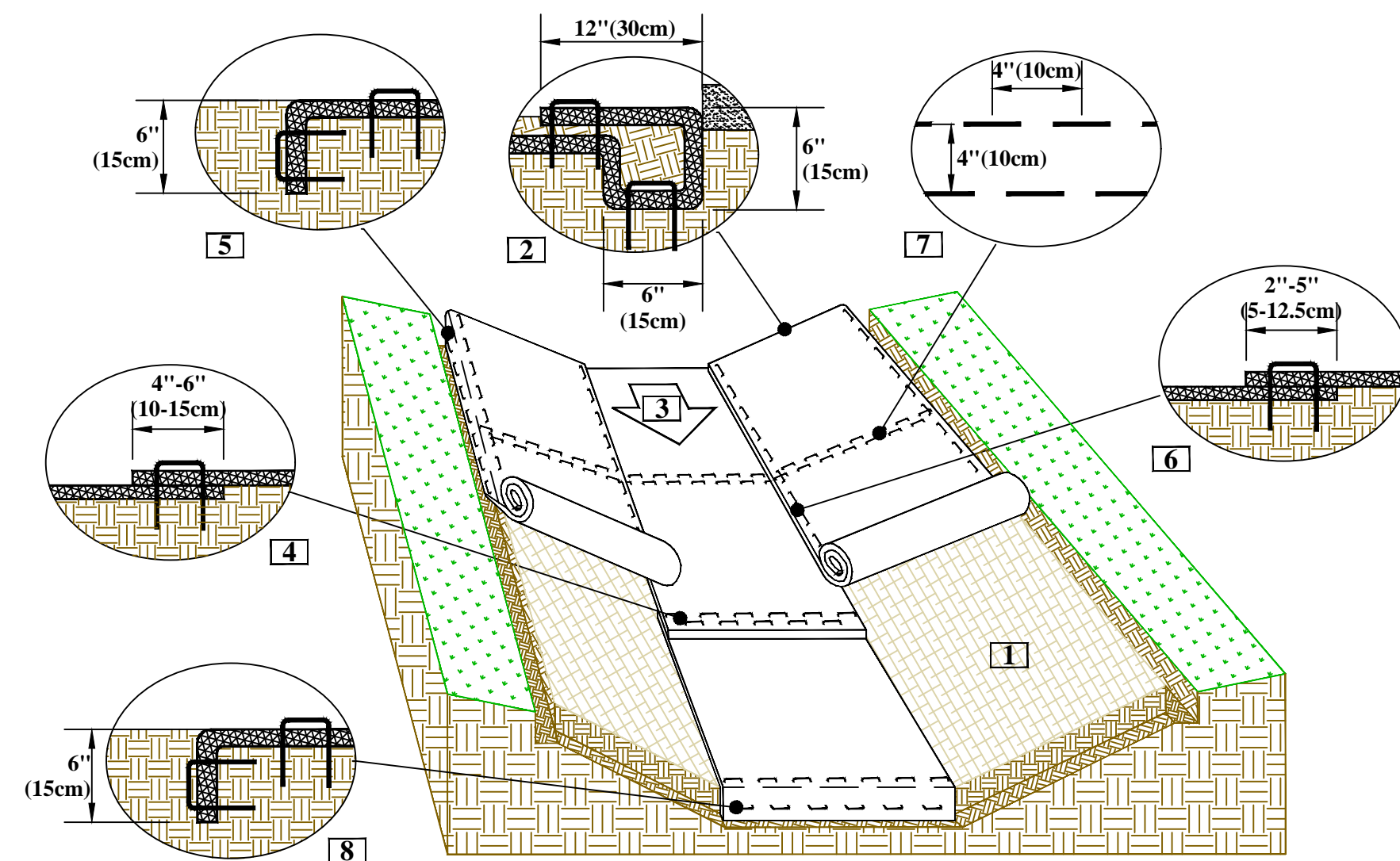
1
C3.2

[illegible]**ISSUED FOR BIDDING**



STAPLE PATTERN DETAIL

NOT TO SCALE



CRITICAL POINTS

- A. Overlaps and Seams
- B. Projected Water Line
- C. Channel Bottom/Side Slope Vertices

Drawing Not To Scale

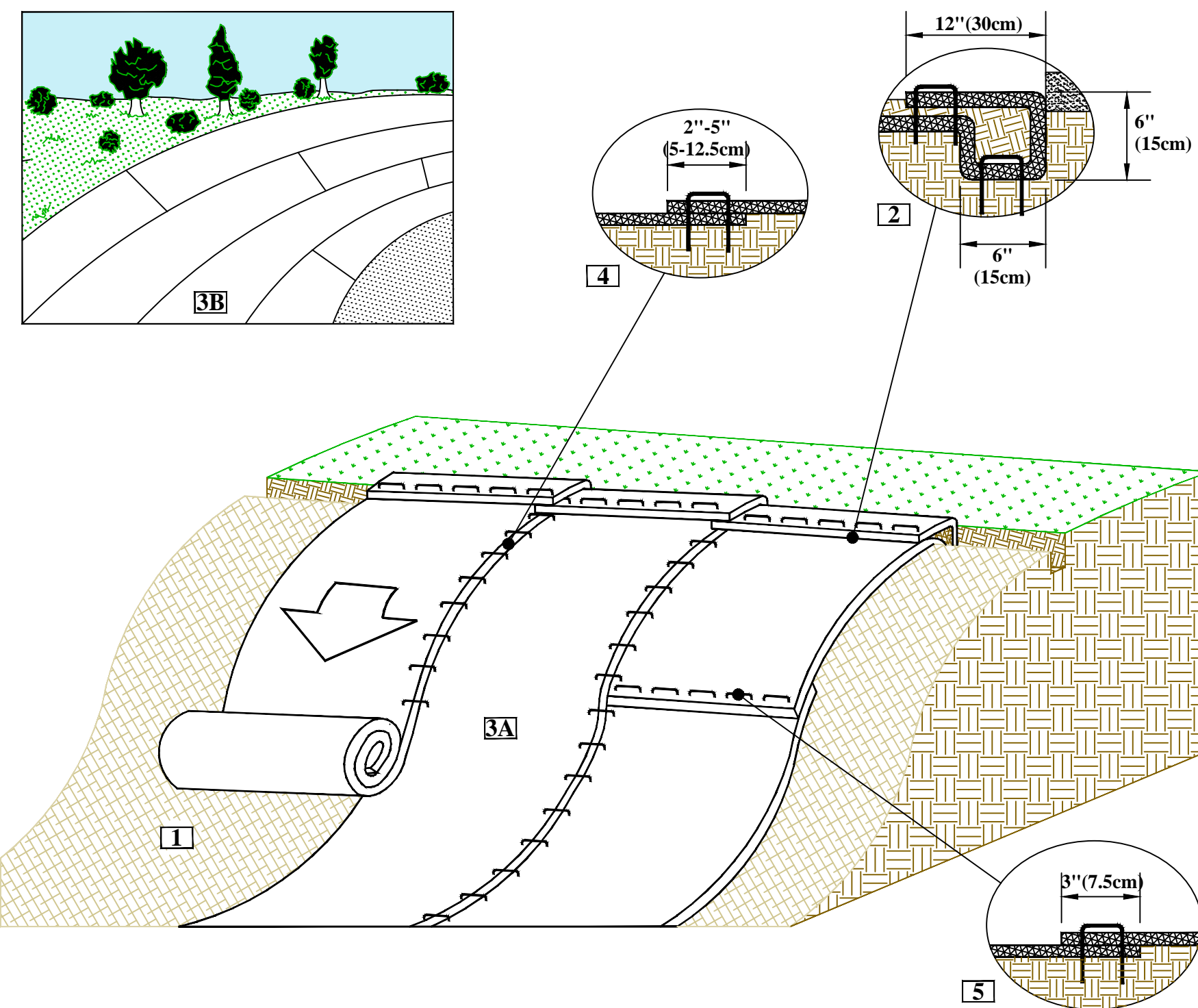
NOTES:

*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

RECP CHANNEL INSTALLATION DETAIL

NOT TO SCALE



SLOPE INSTALLATION

NOTES

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs at a 6" (15cm) overlap. The 6" (15cm) wide RECPs will be installed in a staggered fashion. RECPs extended beyond the deep slope portion of the trench. Anchor the RECPs with a row of staples/staples approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after staking. Apply seed to the compacted soil and fold the remaining 2" (30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/staples spaced approximately 12" (30cm) apart across the width of the RECPs.
3. Roll out the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/staples in appropriate locations as shown in the staple pattern guide.
4. The overlap of panels must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs spliced down the slope must be end over end (and Shingle style) with an approximate 3" (7.5cm) overlap. Staple through overlapped area, approximately 12" (30cm) apart across entire RECPs width.

*NOTE:

In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the RECP's.

RECP SLOPE INSTALLATION DETAIL

NOT TO SCALE

[illegible]

This electronic document is the property of
McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

DO NOT REMOVE FROM
ELECTRONIC FILE



1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196

FL Certificate of Authorization# 29588
www.mckimcreed.com

BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENTS

DETAILS

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	AM
DESIGNED	MDL
CHECKED	MDL
PROJ. MGR.	TLW

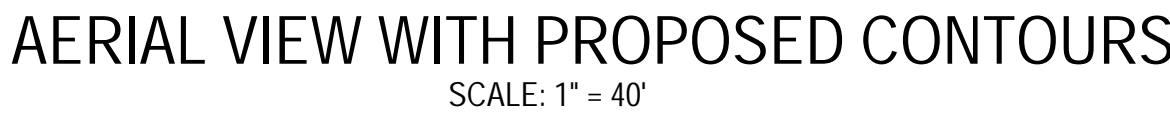
SCALE
HORIZONTAL: AS NOTED
VERTICAL: N/A

C-3.3

EVISION

STATUS:

ISSUED FOR BIDDING

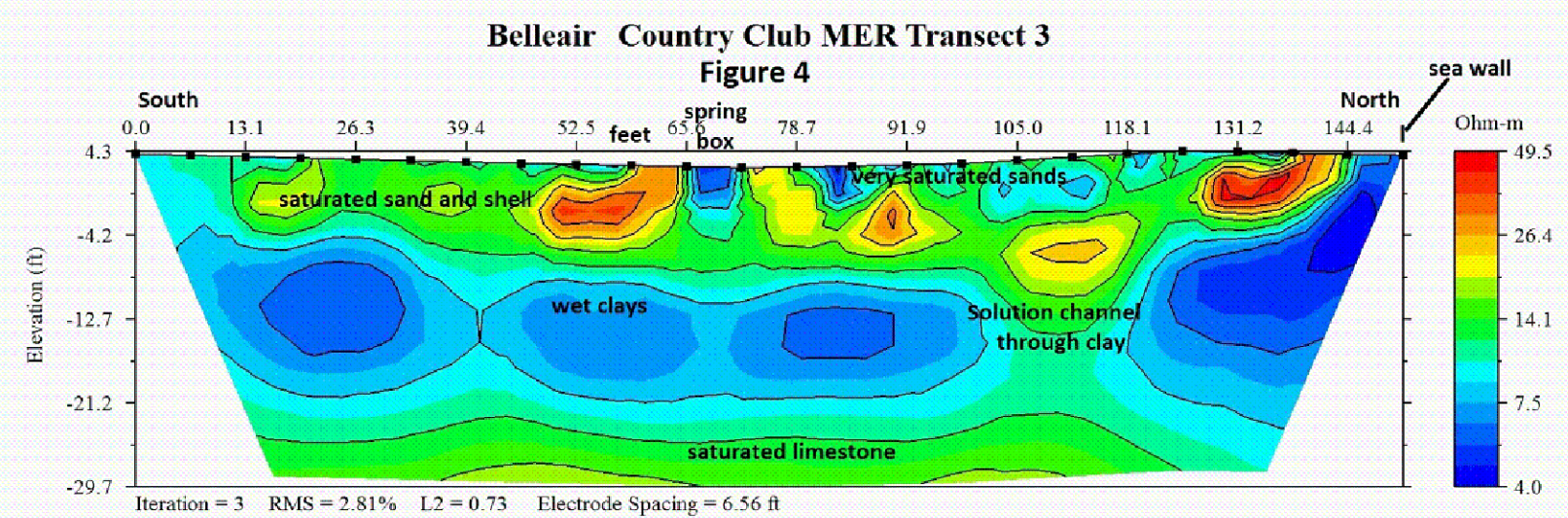
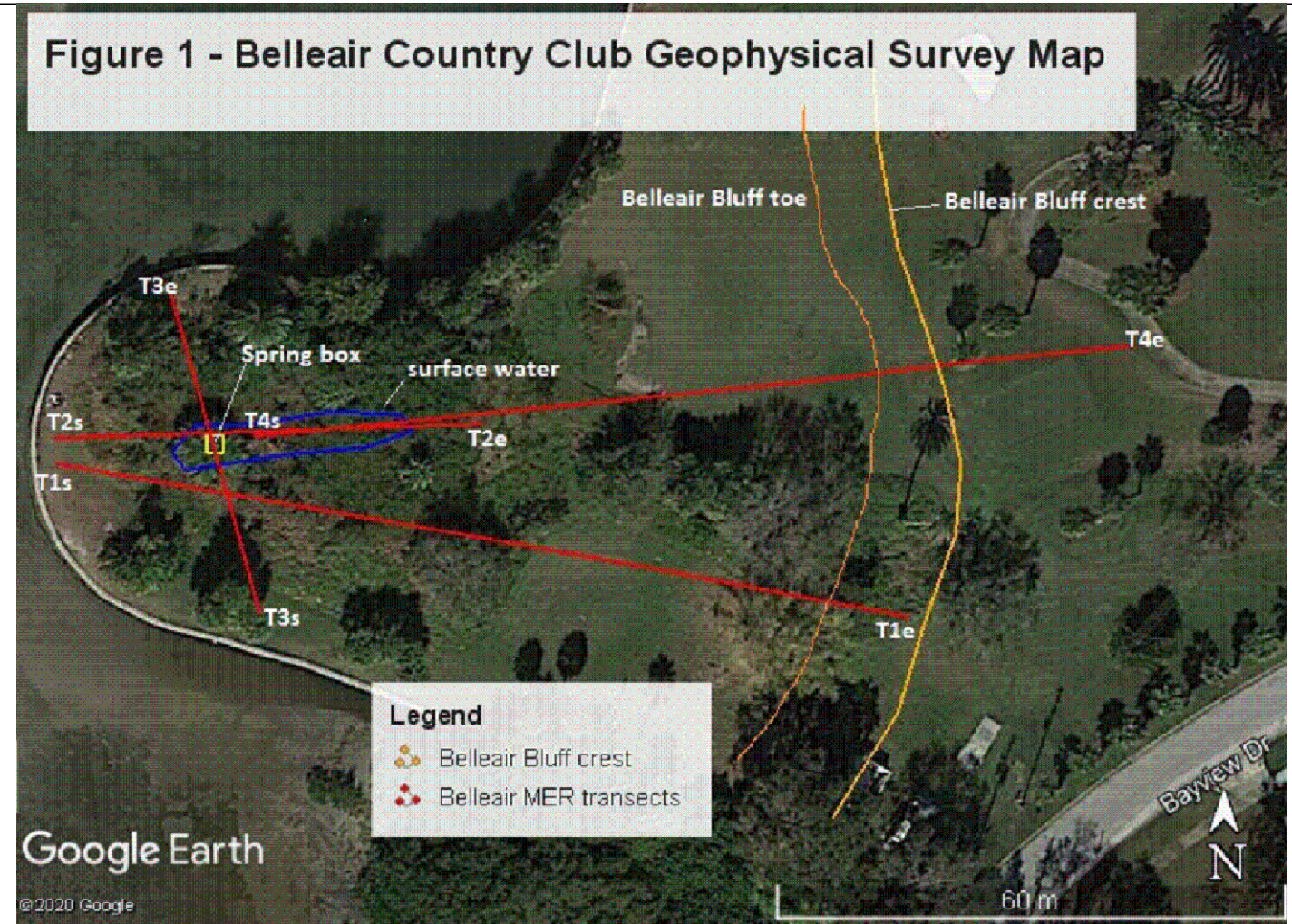


APPROXIMATE
10.0'
(FIELD VERIFY)

10.0'

PLAN VIEW
(EXISTING)

The diagram shows a rectangular plan view of an existing structure. It consists of an outer rectangle and an inner rectangle, creating a border. A dimension line with arrows at both ends indicates the width of the outer rectangle is approximately 10.0 feet, with a note "(FIELD VERIFY)". Another dimension line with arrows at both ends indicates the height of the inner rectangle is 10.0 feet. Two section lines, represented by thick black arrows pointing to the right, are labeled "A" at their ends. One section line is at the top edge, and the other is at the bottom edge, both passing through the center of the structure.



N. S. Nettles Associates, Inc.			
Job Code	MER Transect T3	Survey Date	Jun 30, 2020
Project Site	BCC spring site	Instrument	SuperSting R8
Approved By	Sandy Nettles	Software	EarthImager 2D
Data File	BELL3B_trial4.stg		

EXCERPT FROM THE REPORT PREPARED BY N.S. NETTLES
& ASSOCIATES, INC. DATED JULY 2, 2020. GEOPHYSICAL
INVESTIGATION OF THE COASTAL SPRING BOX AT
BELLEAIR COUNTRY CLUB
(FOR INFORMATION ONLY)

GENERAL NOTES:

1. SEE DRAINAGE PLAN ON SHEET 06 OF GOLF COURSE CONSTRUCTION PLANS FOR ENTIRE SITE DRAINAGE PLAN.

REV.NO.	DESCRIPTION	DATE
-	-	-
REVISIONS		

This electronic document is the property of

McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

**DO NOT REMOVE FROM
ELECTRONIC FILE**



BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENT

SPRING BOX ABANDONMENT DETAIL

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	TLW
DESIGNED	TLW
CHECKED	PJL
PROJ. MGR.	TLW

STATUS

SCALE

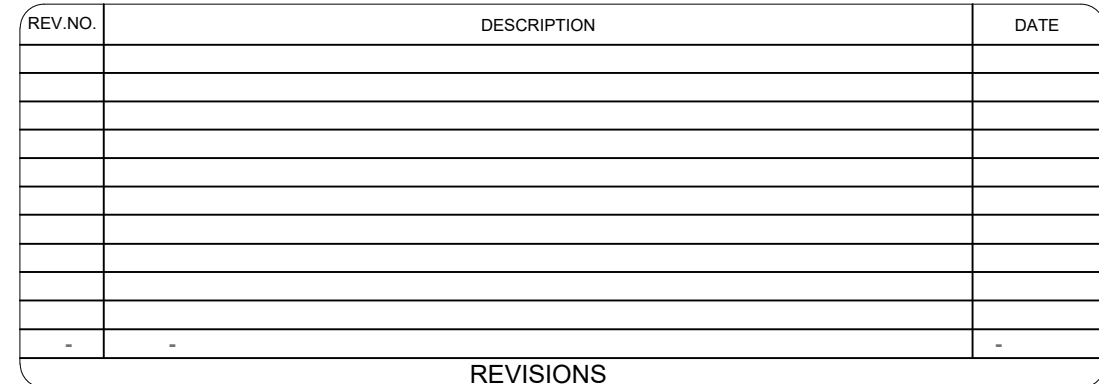
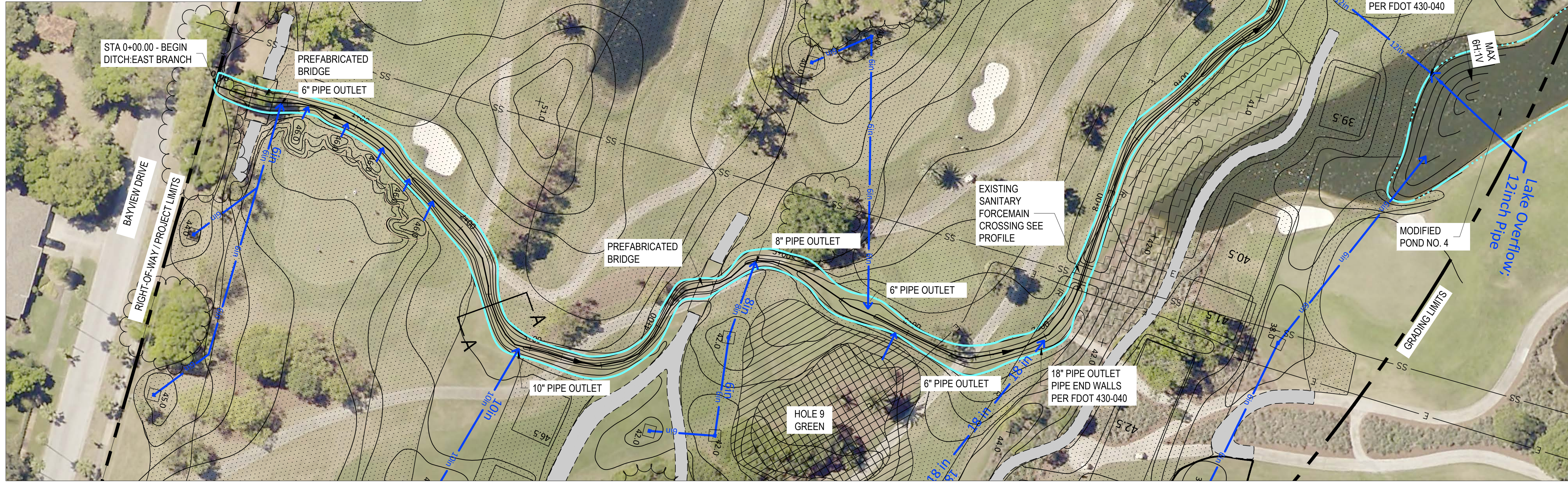
HORIZONTAL:
AS NOTED

VERTICAL:
N/A

C-3.4

00
REVISION

ISSUED FOR BIDS



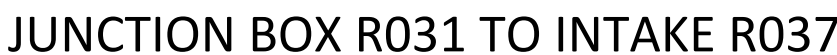
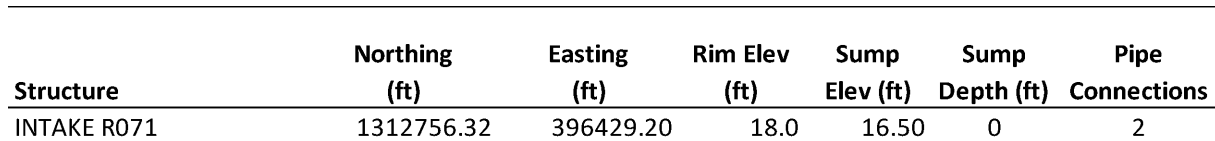
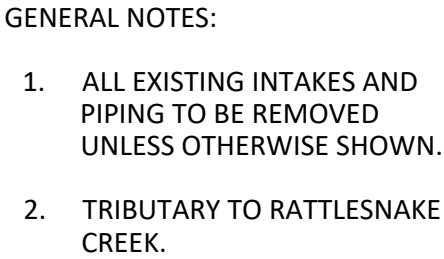
McKIM & CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196
FL Certificate of Authorization# 29588
www.mckimcreed.com

**DRAINAGE PLANS
DITCH: EAST BRANCH
STA. 0+00 TO 11+00**

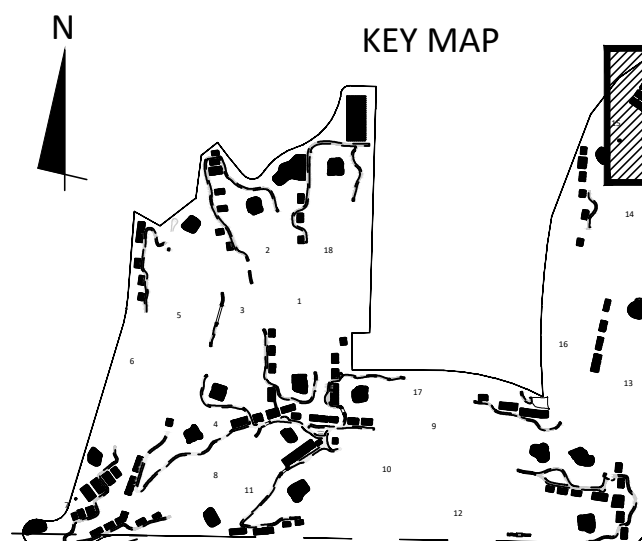
DATE:	11/12/20	
MCE PROJ. #	07334-0001	
DRAWN	TLW	
DESIGNED	TLW	
CHECKED	PJL	
PROJ. MGR.	TLW	

<p>SCALE</p> <p>HORIZONTAL:</p> <p>AS NOTED</p> <p>VERTICAL:</p> <p>N/A</p>	<p>D4</p> <p>DRAWING NUMBER</p> <p>00</p> <p>REVISION</p>
--	---

STATUS:	<p>ISSUED FOR BIDDING</p>
---------	----------------------------------



Structure	Northing (ft)	Easting (ft)	Rim Elev (ft)	Sump Elev (ft)	Sump Depth (ft)	Pipe Connections
JUNCT BOX R031	1312990.65	396351.15	18.0	15.50	0	2
INTAKE R032	1312931.57	396427.09	19.5	16.75	0	2
INTAKE R033	1312953.08	396483.19	21.5	19.00	0	2
INTAKE R034	1313033.18	396531.94	25.0	22.50	0	2
INTAKE R035	1313115.06	396542.59	27.0	24.50	0	2
INTAKE R036	1313081.79	396380.93	21.0	18.00	0	2
INTAKE R037	1313103.47	396431.92	24.0	21.50	0	1



REV.NO	DESCRIPTION	DATE
-	-	-

REVISIONS

This electronic document is the property of

McKim & Creed, Inc.

and is not to be used for any purpose without the written consent of the engineer whose seal appears on the original certified document.

**DO NOT REMOVE FROM
ELECTRONIC FILE**



BELLEAIR COUNTRY CLUB WEST COURSE IMPROVEMENT

DRAINAGE PLANS

PRIVATE STORM SEWER

DATE:	11/12/20
MCE PROJ. #	07334-0001
DRAWN	TLW
DESIGNED	TLW
CHECKED	PJL
PROJ. MGR.	TLW

STATUS

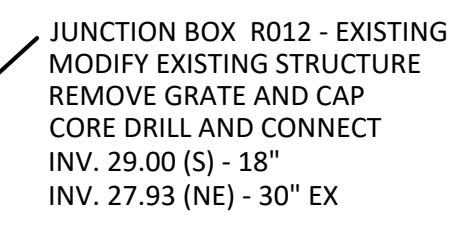
SCALE

HORIZONTAL:
AS NOTED
VERTICAL:
N/A

D6.1

00

ISSUED FOR BIDDING



STATUS: **ISSUED FOR BIDDING**

		Northing	Easting	Rim Elev	Sump	Sump	Pipe	
	Structure	(ft)	(ft)	(ft)	Elev (ft)	Depth (ft)	Connections	
1	INTAKE A008	1312405.76	394037.58	14.0	12.90	0	1	
2	JUNCTION BOX A009	1312321.54	394048.27	15.3	12.71	0	4	
3	JUNCTION BOX A010	1312301.18	394106.24	14.5	13.00	0	2	
4	INTAKE A011	1312376.56	394199.97	21.0	18.00	0	2	
5	INTAKE A012	1312509.44	394152.19	23.0	19.75	0	3	
6	INTAKE A013	1312624.26	394295.18	27.0	24.00	0	3	
7	INTAKE A014	1312565.93	394396.64	30.0	27.25	0	2	
8	INTAKE A015	1312589.03	394482.52	31.0	28.50	0	2	
9	INTAKE A016	1312656.31	394521.79	31.5	29.25	0	2	
10	INTAKE A017	1312697.85	394265.80	27.0	25.00	0	1	
11	INTAKE A018	1312615.23	394139.30	24.0	20.50	0	2	
12	INTAKE A019	1312692.08	394148.99	24.0	21.50	0	2	
13	INTAKE A020	1312726.12	394181.26	26.0	24.00	0	1	
14	INTAKE B008	1312309.38	394326.42	24.0	19.50	0	4	
15	INTAKE B009	1312410.04	394300.35	25.0	22.50	0	2	
16	INTAKE B010	1312526.89	394298.58	26.0	23.50	0	1	
17	INTAKE B011	1312332.21	394388.48	28.0	23.50	0	5	
18	INTAKE B012	1312336.78	394600.78	32.0	29.00	0	3	
19	INTAKE B013	1312322.69	394765.33	34.0	31.50	0	2	
20	INTAKE B014	1312332.44	394895.89	38.0	35.50	0	1	
21	INTAKE B015	1312429.87	394582.51	32.0	28.00	0	4	
22	INTAKE B016	1312420.45	394701.25	33.0	28.85	0	3	
23	INTAKE B017	1312454.26	394791.60	36.0	33.25	0	2	
24	INTAKE B018	1312478.05	394917.74	37.0	34.50	0	2	
25	INTAKE B019	1312533.80	394898.50	38.0	35.50	0	1	
26	INTAKE B020	1312567.35	394740.56	33.0	29.40	0	4	
27	INTAKE B021	1312610.08	394901.09	39.0	36.50	0	1	
28	INTAKE B022	1312651.44	394739.70	33.0	29.75	0	3	
29	INTAKE B023	1312765.36	394820.36	33.0	30.00	0	4	
30	INTAKE B024	1312726.03	394971.29	34.0	32.00	0	2	
31	INTAKE B025	1312633.31	394995.52	35.0	33.00	0	1	
32	INTAKE B026	1312789.31	394919.38	34.2	31.25	0	2	
33	INTAKE B027	1312789.85	394982.97	34.2	31.55	0	2	
34	INTAKE B028	1312824.97	395012.03	34.0	31.65	0	2	
35	INTAKE B029	1312911.30	395014.42	34.0	31.85	0	2	
36	INTAKE B030	1313006.39	395019.54	34.0	32.05	0	1	
37	INTAKE B031	1312838.51	394862.82	33.0	31.00	0	2	
38	INTAKE B032	1312925.70	394880.67	34.0	31.20	0	2	
39	INTAKE B033	1312997.49	394890.86	34.0	31.40	0	2	
40	INTAKE B034	1313041.83	394928.15	34.0	31.75	0	2	
41	INTAKE B035	1313041.51	394989.22	34.0	31.90	0	1	
42	INTAKE B036	1312493.24	394542.83	32.0	29.50	0	1	
43	INTAKE B037	1312494.24	394605.59	32.0	29.50	0	2	
44	INTAKE B038	1312551.21	394612.82	33.0	30.50	0	2	
45	INTAKE B039	1312459.84	394494.65	31.0	28.50	0	2	
46	INTAKE B040	1312508.54	394482.92	32.0	28.50	0	2	
47	INTAKE B12A	1312243.14	394654.35	33.0	30.50	0	1	
48	INTAKE C010	1312122.21	393930.74	16.0	13.50	0	1	
49	INTAKE C011	1312128.14	393872.58	12.0	8.15	0	3	
50	INTAKE C012	1312029.46	393881.48	13.0	8.25	0	2	
51	INTAKE C013	1311840.50	393876.82	12.0	7.80	0	3	
52	INTAKE C014	1311714.68	393880.95	13.0	9.25	0	2	
53	INTAKE C015	1311623.04	393852.54	14.0	10.25	0	2	
54	INTAKE C016	1311550.04	393859.74	17.0	10.75	0	2	
55	INTAKE C017	1311458.79	393868.62	17.0	11.00	0	3	
56	INTAKE C018	1311311.88	393851.41	15.0	11.25	0	3	
57	INTAKE C019	1311220.20	393951.76	20.0	15.50	0	3	
58	INTAKE C020	1311054.86	393948.56	28.0	24.75	0	3	
59	INTAKE C021	1310960.91	393891.76	28.0	25.50	0	2	
60	INTAKE C022	1310856.93	394020.36	33.0	30.50	0	1	
61	INTAKE C023	1311052.16	394054.20	32.0	29.00	0	2	
62	INTAKE C024	1310941.22	394130.97	34.0	30.75	0	2	
63	INTAKE C025	1310915.54	394172.91	36.5	32.00	0	2	
64	INTAKE C026	1310914.18	394213.09	37.5	32.25	0	3	
65	INTAKE C027	1310961.17	394240.26	36.0	33.00	0	3	
66	INTAKE C028	1310961.88	394330.67	36.0	33.50	0	1	
67	INTAKE C029	1311199.61	394102.75	25.0	21.50	0	3	
68	INTAKE C030	1311139.26	394059.00	28.0	25.25	0	3	
69	INTAKE C031	1311095.73	394144.82	34.0	31.50	0	1	
70	INTAKE C032	1311133.22	394211.20	35.0	32.50	0	2	
71	INTAKE C033	1311204.61	394140.36	25.0	22.00	0	4	
72	INTAKE C034	1311238.12	394182.05	25.0	22.50	0	2	
73	INTAKE C035	1311267.24	394309.88	30.0	27.50	0	2	
74	INTAKE C036	1311189.96	394306.03	35.0	32.50	0	1	
75	INTAKE C037	1311171.59	393749.07	15.0	12.25	0	2	
76	INTAKE C038	1311082.88	393751.00	19.0	14.50	0	2	
77	INTAKE C039	1311037.94	393723.59	18.0	15.00	0	2	
78	INTAKE C040	1310940.71	393732.63	24.0	21.50	0	2	
79	INTAKE C041	1310944.69	393801.11	25.0	22.50	0	1	

	Structure	Northing (ft)	Easting (ft)	Rim Elev (ft)	Sump Elev (ft)	Sump Depth (ft)	Pipe Connections
80	INTAKE D011	1311855.35	393977.95	23.0	20.50	0	1
81	INTAKE D012	1311930.72	393978.78	22.0	19.50	0	2
82	INTAKE E010	1311740.96	393971.67	23.0	20.50	0	1
83	INTAKE E011	1311849.66	394119.29	25.0	19.25	0	3
84	INTAKE E012	1311774.08	394145.12	24.0	19.50	0	3
85	INTAKE E013	1311701.76	394200.14	24.5	22.00	0	1
86	INTAKE E014	1311610.87	394173.46	23.5	20.00	0	4
87	INTAKE E015	1311602.49	394239.31	24.0	21.00	0	1
88	INTAKE E016	1311563.23	394180.96	24.0	21.00	0	3
89	INTAKE E017	1311382.21	394104.20	25.0	21.00	0	5
90	INTAKE E018	1311434.45	394193.71	26.5	24.00	0	1
91	INTAKE E019	1311394.89	394287.39	28.0	25.50	0	1
92	INTAKE E020	1311485.28	394320.03	24.5	22.00	0	1
93	INTAKE F011	1312021.08	394374.86	25.0	21.75	0	3
94	INTAKE F012	1312025.08	394451.22	30.0	26.50	0	4
95	INTAKE F013	1312118.04	394567.12	30.0	27.35	0	3
96	INTAKE F014	1312162.39	394696.35	32.0	29.50	0	2
97	INTAKE F015	1312200.65	394915.17	39.0	36.50	0	2
98	INTAKE F016	1312059.28	394722.59	32.0	29.50	0	3
99	INTAKE F017	1312020.20	394573.09	32.9	29.25	0	2
100	INTAKE F018	1311865.23	394551.87	32.0	29.00	0	3
101	INTAKE F019	1311784.68	394559.34	33.0	29.50	0	4
102	INTAKE F020	1311737.02	394730.28	35.0	30.25	0	2
103	INTAKE F021	1311770.99	394804.62	33.0	30.50	0	2
104	INTAKE F022	1311703.29	394872.87	35.0	32.50	0	1
105	INTAKE F023	1311643.47	394581.13	33.0	29.75	0	3
106	INTAKE F024	1311978.02	394363.82	26.0	23.25	0	2
107	INTAKE F025	1311941.05	394397.14	26.0	23.50	0	2
108	INTAKE F026	1311877.43	394435.00	28.0	25.50	0	1
109	INTAKE G011	1311468.50	394603.29	33.0	31.40	0	3
110	INTAKE G012	1311451.83	394685.68	33.0	31.55	0	1
111	INTAKE GG011	1311373.80	394690.30	35.0	33.00	0	1
112	INTAKE H011	1311554.73	394764.65	33.0	31.65	0	2
113	INTAKE H012	1311558.89	394731.55	34.0	31.85	0	2
114	INTAKE I011	1311229.33	394391.34	35.0	32.00	0	1
115	INTAKE J011	1311125.79	394462.33	35.0	32.00	0	2
116	INTAKE J012	1311069.05	394401.24	36.0	32.75	0	2
117	INTAKE J013	1311021.01	394396.59	36.0	33.25	0	2
118	INTAKE J014	1311052.19	394350.65	36.0	33.50	0	1
119	INTAKE J011	1311195.69	394607.21	34.0	31.25	0	4
120	INTAKE J012	1311266.33	394693.43	36.0	33.25	0	2
121	INTAKE J013	1311311.52	394652.69	36.0	33.50	0	1
122	INTAKE K011	1311006.62	394504.63	36.0	33.10	0	2
123	INTAKE K012	1310923.51	394440.41	36.0	33.30	0	2
124	INTAKE K013	1310874.04	394395.34	37.0	34.00	0	2
125	INTAKE K014	1310821.87	394347.84	37.0	34.50	0	1
126	INTAKE KK011	1311085.72	394627.96	37.0	33.75	0	3
127	INTAKE KK012	1311087.88	394728.68	38.0	35.00	0	2
128	INTAKE L011	1310747.46	394576.02	36.3	35.25	0	1
129	INTAKE M011	1310741.83	394706.96	37.0	35.20	0	2
130	INTAKE M012	1310741.03	394821.63	37.0	35.30	0	2
131	INTAKE M013	1310741.75	394996.98	37.0	35.50	0	1
132	INTAKE N011	1310861.89	394702.74	36.0	32.10	0	2
133	INTAKE N012	1310935.96	394794.88	36.1	32.40	0	5
134	INTAKE N013	1310908.43	394899.82	38.0	35.50	0	1
135	INTAKE N014	1310963.16	394873.84	36.0	32.75	0	2
136	INTAKE N015	1310981.44	394998.14	38.0	33.00	0	4
137	INTAKE N016	1310915.41	395068.03	39.0	35.00	0	2
138	INTAKE N017	1310901.40	395208.95	37.0	33.50	0	2
139	INTAKE N018	1310931.79	395318.04	37.5	33.60	0	2
140	INTAKE N019	1310908.28	395370.55	37.0	33.75	0	3
141	INTAKE N020	1310931.84	395439.53	38.0	35.30	0	2
142	INTAKE N021	1310913.73	395531.12	41.0	38.50	0	2
143	INTAKE N022	1310890.88	395611.53	42.0	39.50	0	1
144	INTAKE N024	1310780.28	395372.04	37.3	34.10	0	3
145	INTAKE N025	1310736.32	395274.52	38.0	35.00	0	2
146	INTAKE N026	1310736.09	395182.12	38.0	35.50	0	2
147	INTAKE N027	1310778.60	395176.94	39.0	36.50	0	2
148	INTAKE N028	1310763.75	395547.27	41.0	38.50	0	2
149	INTAKE N029	1310766.81	395667.06	44.0	41.50	0	1
150	INTAKE N030	1310973.96	395119.45	37.0	34.25	0	2
151	INTAKE N031	1310988.14	395247.58	37.5	34.75	0	2
152	INTAKE N032	1310983.25	395321.00	37.5	35.00	0	1
153	INTAKE P011	1311544.33	394898.96	37.0	32.75	0	3
154	INTAKE P012	1311590.37	394889.08	36.0	32.85	0	2
155	INTAKE P013	1311588.85	394952.31	36.0	33.00	0	2
156	INTAKE P014	1311596.97	395067.27	37.0	33.50	0	3
157	INTAKE P015	1311554.19	395062.99	38.0	35.50	0	2
158	INTAKE P016	1311598.38	395131.91	37.0	34.00	0	2
159	INTAKE P017	1311597.72	395201.34	38.0	34.40	0	2