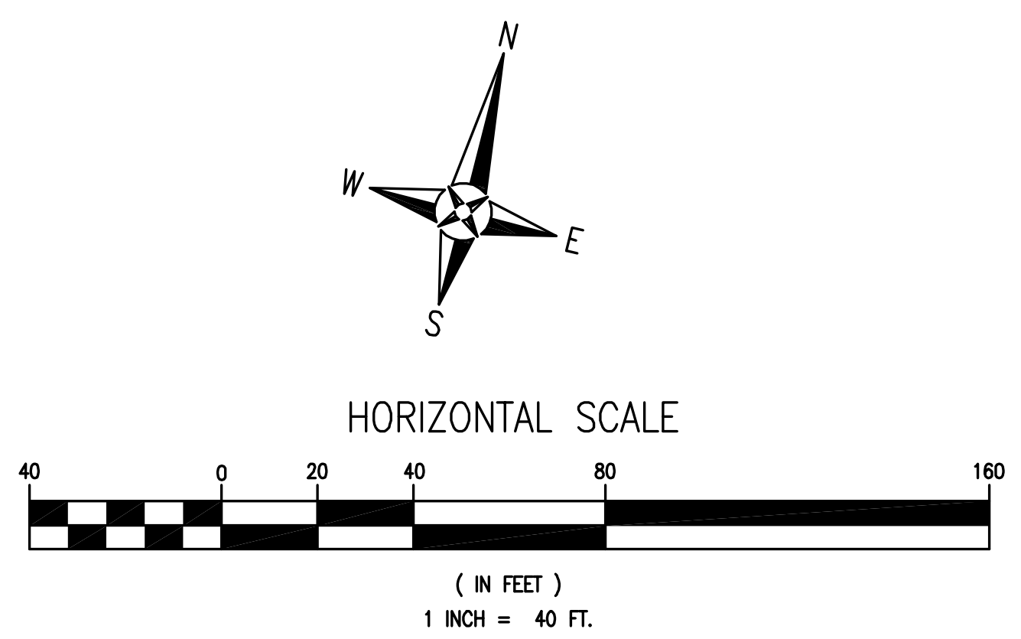

LEGEND

▭	EXISTING ASPHALT
▭	EXISTING CONCRETE
▭	EXISTING GRAVEL
▭	EXISTING DIRT
▨	DEMOLITION
▭	WETLAND
▭	WATER
—— ·· ——	BOUNDARY LINE
— — —	EASEMENT LINE
—·—·—	LOT LINE
—— — — ——	RIGHT-OF-WAY LINE
—— W ——	WATER LINE
—▷——	SEWER LINE (GRAVITY)
——|——	FORCE MAIN
—— OHU ——	OVERHEAD UTILITIES
—— 100 ——	EXISTING CONTOUR
▩ ▩ ▩	STRAW BALE
—— \ \ ——	SILT FENCE
⌖	BENCHMARK
✣	FIRE HYDRANT
▣	WATER METER
⋈	WATER VALVE
◎	CLEANOUT
●	MANHOLE
←	GUY ANCHOR
⌀	UTILITY POLE
☼	LIGHT POLE
▪	TELEPHONE BOX
⋈	GAS VALVE
▣	GAS METER
▫	POST
FRISBEE	FRISBEE GOLF
-•-	SIGN
✿	ORNAMENTAL TREE
✳	PINE TREE
○	OAK TREE
✿	HOLLY TREE
✺	PALM TREE
✸	MAGNOLIA TREE
❀	POPCORN TREE
✹	MISCELLANEOUS TREE
❀	MAPLE TREE
✹	BAY TREE

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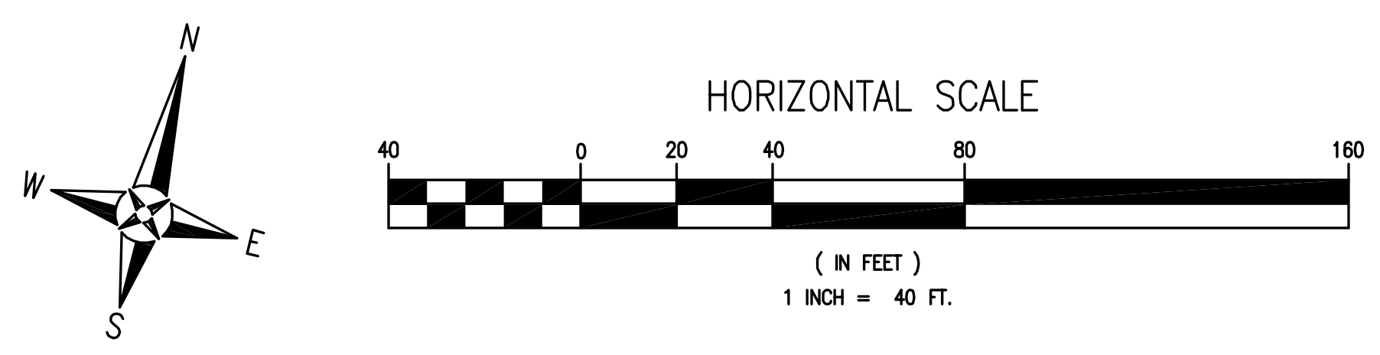
EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
OVERALL EXISTING SITE

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C0.1

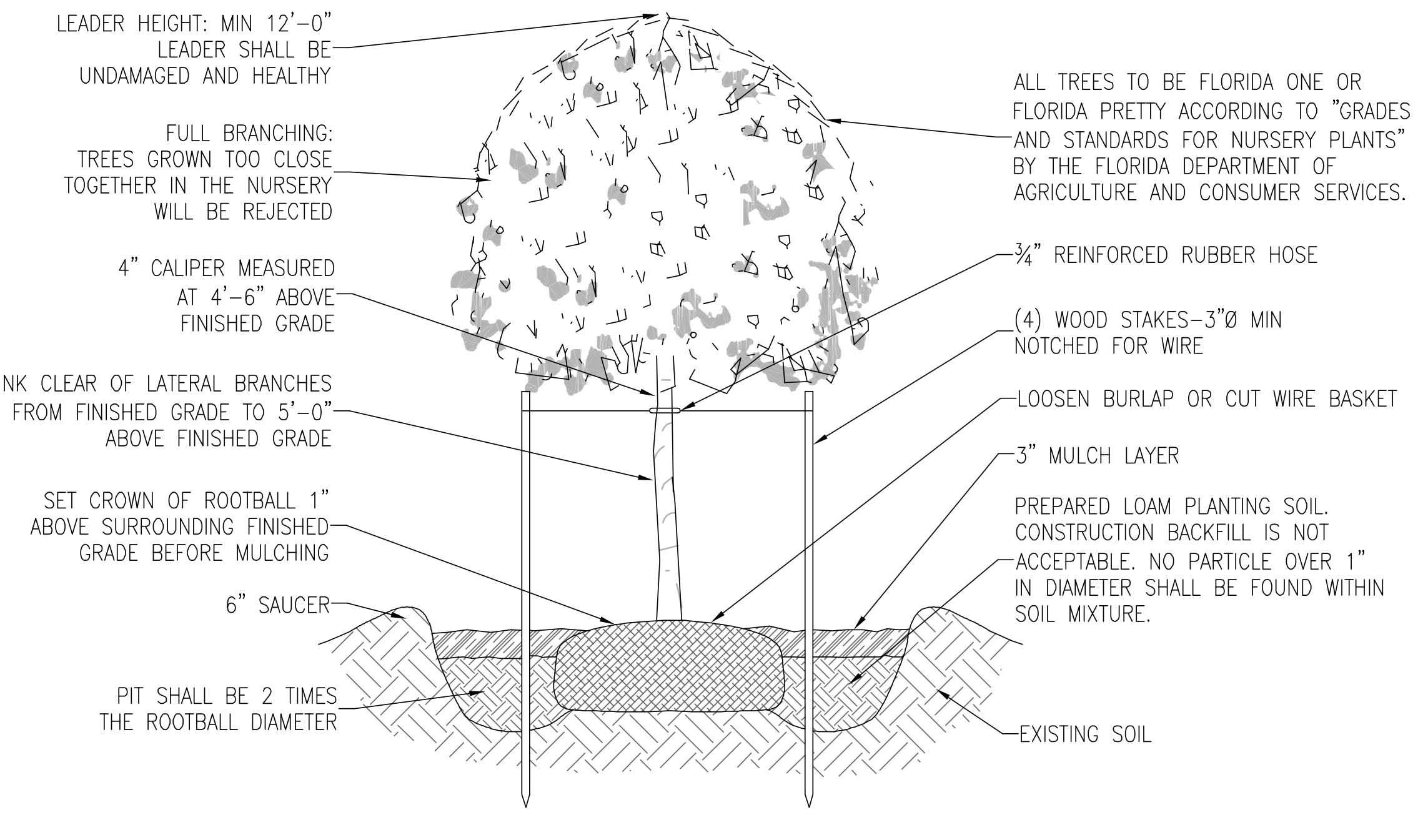


Line Table		
Line #	Length	Direction
L1	35.29'	S33°02'34"E

Curve Table					
Curve #	Radius	Delta	Length	Chord	Chord Bearing
C1	512.00'	17.01°	152.03'	151.47'	N12°08'27"W
C2	169.00'	30.61°	90.29'	89.22'	N35°57'11"W
C3	145.00'	36.61°	92.64'	91.07'	N32°57'19"W
C4	310.00'	71.61°	387.44'	362.71'	N21°09'10"E
C5	310.00'	34.41°	186.17'	183.39'	N74°09'43"E

LEGEND

░	EXISTING ASPHALT
▨	EXISTING CONCRETE
▨	EXISTING GRAVEL
▩	PROPOSED ASPHALT
▨	PROPOSED CONCRETE
●	PROPOSED LIVE OAK



TREE PLANTING DETAIL

N.T.S.

GENERAL NOTES:

1. NO LANE CLOSURES WILL BE ALLOWED ON HOLIDAYS INCLUDING THE DAY PROCEEDING AND THE DAY FOLLOWING. NO LANE CLOSURES WILL BE ALLOWED DURING THE HOURS OF 6:00 AM TO 8:00 PM.

2. ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC AND INSTALLED ACCORDING TO FDOT STANDARD INDEX 17346.

3. ALL CONSTRUCTION IN THE RIGHT–OF–WAY SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS.

4. ALL DISTURBED AREAS IN THE RIGHT–OF–WAY SHALL BE REGRADED AND SODDED AND/OR SEED AND MULCHED PER FDOT STANDARD INDEX 105.

5. ALL NEEDED STRIPING DESTROYED DURING CONSTRUCTION SHALL BE RE–STRIPED ACCORDING TO FDOT STANDARD INDEX 17346. ALL STRIPING IN RIGHT–OF–WAY IS TO BE THERMOPLASTIC.

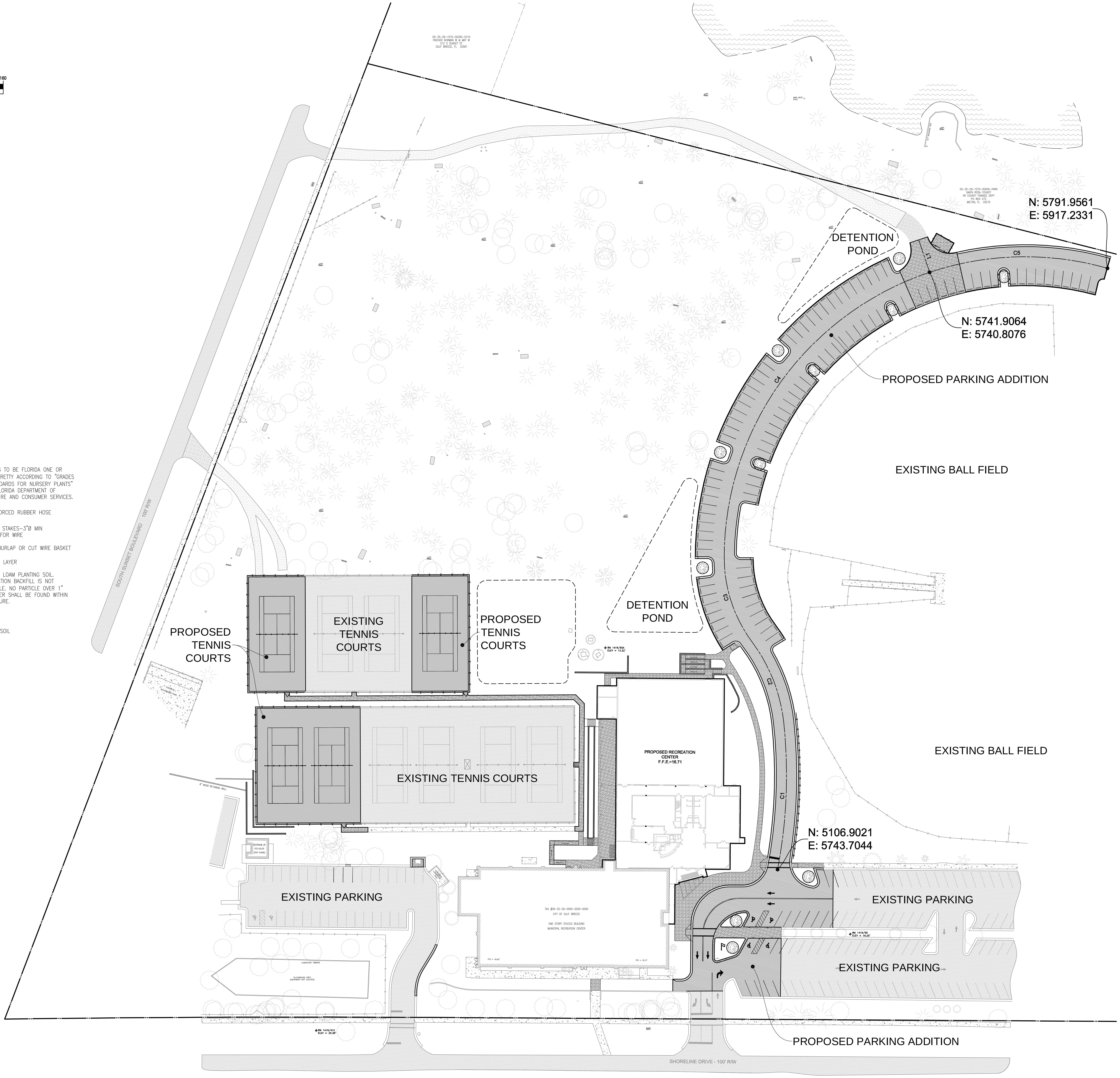
6. ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LOCAL MAINTENANCE ENGINEER OR HIS DESIGNEE.

7. ALL SIGNS SHALL BE INSTALLED PER FDOT STANDARD INDEX 11865, WIND ZONE No.:1.

8. ALL NEWLY PLACED SOD SHALL BE REGULARLY WATERED UNTIL GRASS IS ESTABLISHED.

9. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

10. ALL DISTURBED AREAS TO BE SODDED.



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EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
OVERALL SITE LAYOUT AND LANDSCAPE PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C0.2

TREE CHART

TREE #	SIZE & TYPE	REMOVE/PROTECT
T-1	12" OAK	PROTECT
T-2	20" PINE	PROTECT
T-3	11" OAK	PROTECT
T-4	10" OAK	PROTECT
T-5	9" PINE	PROTECT
T-6	14" PINE	PROTECT
T-7	13" PINE	REMOVE
T-8	15" PINE	REMOVE
T-9	16" PINE	REMOVE
T-10	18" PINE	REMOVE
T-11	20" PINE	REMOVE
T-12	19" PINE	PROTECT
T-13	21" PINE	PROTECT
T-14	23" OAK	PROTECT
T-15	23" PINE	PROTECT
T-16	21" PINE	REMOVE
T-17	18" PINE	REMOVE
T-18	23" PINE	REMOVE
T-19	18" PINE	REMOVE
T-20	25" PINE	REMOVE
T-21	16" PINE	REMOVE
T-22	16" PINE	REMOVE
T-23	23" PINE	REMOVE
T-24	20" PINE	REMOVE
T-25	19" PINE	REMOVE
T-26	21" PINE	REMOVE
T-27	8" OAK	REMOVE
T-28	9" PINE	REMOVE
T-29	10" PINE	REMOVE
T-30	11" PINE	REMOVE
T-31	11" PINE	REMOVE
T-32	3" OAK	REMOVE
T-33	3" MAGNOLIA	REMOVE
T-34	6" MISC	PROTECT
T-35	3" OAK	REMOVE
T-36	3" OAK	REMOVE
T-37	5" PALM	PROTECT
T-38	5" PALM	REMOVE
T-39	19" PINE	PROTECT
T-40	7" PINE	PROTECT
T-41	11" PINE	PROTECT
T-42	11" PINE	PROTECT
T-43	6" PINE	PROTECT
T-44	15" OAK	PROTECT
T-45	15" OAK	PROTECT
T-46	12" OAK	PROTECT
T-47	13" OAK	PROTECT
T-48	10" OAK	PROTECT
T-49	19" OAK	PROTECT
T-50	16" OAK	PROTECT
T-51	9" OAK	PROTECT
T-52	11" OAK	PROTECT
T-53	9" OAK	PROTECT
T-54	52" OAK	PROTECT
T-55	13" OAK	PROTECT
T-56	5" PALM	PROTECT
T-57	5" PALM	PROTECT
T-58	5" PALM	PROTECT
T-59	12" OAK	PROTECT
T-60	9" OAK	PROTECT
T-61	3" OAK	PROTECT
T-62	13" OAK	PROTECT
T-63	21" OAK	PROTECT
T-64	9" OAK	PROTECT
T-65	11" OAK	PROTECT
T-66	35" OAK	PROTECT
T-67	18" OAK	PROTECT
T-68	5" PALM	PROTECT
T-69	5" PALM	PROTECT
T-70	33" OAK	PROTECT
T-71	8" OAK	PROTECT
T-72	8" OAK	PROTECT
T-73	16" OAK	PROTECT
T-74	13" OAK	PROTECT
T-75	11" OAK	PROTECT
T-76	21" OAK	PROTECT
T-77	10" OAK	PROTECT
T-78	5" OAK	PROTECT
T-79	16" OAK	PROTECT
T-80	13" OAK	PROTECT
T-81	7" OAK	PROTECT
T-82	8" OAK	PROTECT
T-83	27" OAK	PROTECT
T-84	14" OAK	PROTECT
T-85	10" OAK	PROTECT
T-86	10" OAK	PROTECT
T-87	32" OAK	PROTECT
T-88	37" OAK	PROTECT
T-89	3" OAK	PROTECT
T-90	16" OAK	PROTECT
T-91	3" OAK	PROTECT
T-92	5" OAK	PROTECT
T-93	17" OAK	PROTECT
T-94	14" OAK	PROTECT
T-95	10" OAK	PROTECT
T-96	14" PINE	PROTECT
T-97	8" PINE	PROTECT
T-98	8" PINE	PROTECT
T-99	11" PINE	PROTECT
T-100	9" OAK	PROTECT
T-101	5" OAK	PROTECT
T-102	13" PINE	PROTECT
T-103	15" PINE	PROTECT
T-104	20" OAK	PROTECT
T-105	12" OAK	PROTECT
T-106	11" PINE	PROTECT
T-107	16" PINE	PROTECT
T-108	9" OAK	REMOVE
T-109	6" OAK	PROTECT
T-110	6" OAK	PROTECT
T-111	6" OAK	REMOVE
T-112	24" OAK	PROTECT
T-113	8" MISC	PROTECT
T-114	4" MISC	PROTECT
T-115	5" MISC	PROTECT
T-116	19" PINE	REMOVE
T-117	20" PINE	REMOVE
T-118	20" PINE	REMOVE
T-119	16" PINE	REMOVE
T-120	16" HOLLY	REMOVE
T-121	13" HOLLY	REMOVE
T-122	13" HOLLY	REMOVE
T-123	16" HOLLY	REMOVE
T-124	11" HOLLY	REMOVE
T-125	11" HOLLY	REMOVE
T-126	15" HOLLY	REMOVE
T-127	18" PINE	REMOVE
T-128	3" OAK	REMOVE
T-129	3" OAK	REMOVE
T-130	8" OAK	REMOVE
T-131	6" OAK	REMOVE
T-132	3" OAK	REMOVE
T-133	13" OAK	PROTECT
T-134	17" PINE	REMOVE
T-135	17" PINE	REMOVE
T-136	15" OAK	REMOVE
T-137	14" PINE	REMOVE
T-138	20" OAK	REMOVE
T-139	11" OAK	PROTECT
T-140	11" OAK	PROTECT
T-141	28" PINE	REMOVE
T-142	8" OAK	REMOVE
T-143	13" OAK	REMOVE
T-144	11" OAK	REMOVE
T-145	14" OAK	REMOVE
T-146	12" OAK	PROTECT
T-147	10" OAK	PROTECT
T-148	12" OAK	REMOVE
T-149	5" POPCORN	PROTECT
T-150	17" PINE	PROTECT
T-151	21" PINE	REMOVE
T-152	21" PINE	PROTECT
T-153	23" PINE	PROTECT
T-154	5" POPCORN	PROTECT
T-155	21" PINE	PROTECT
T-156	20" PINE	PROTECT
T-157	13" PINE	PROTECT
T-158	15" PINE	PROTECT
T-159	22" PINE	PROTECT
T-160	10" OAK	PROTECT
T-161	12" OAK	PROTECT
T-162	14" OAK	PROTECT
T-163	14" PINE	PROTECT
T-164	19" PINE	PROTECT
T-165	9" PINE	PROTECT
T-166	13" PINE	PROTECT
T-167	13" PINE	PROTECT
T-168	20" PINE	PROTECT
T-169	14" PINE	PROTECT
T-170	15" PINE	PROTECT
T-171	11" PINE	PROTECT
T-172	14" PINE	PROTECT
T-173	11" PINE	PROTECT
T-174	14" PINE	PROTECT
T-175	17" PINE	PROTECT
T-176	15" PINE	PROTECT
T-177	12" OAK	PROTECT
T-178	15" PINE	PROTECT
T-179	11" PINE	PROTECT
T-180	15" PINE	PROTECT
T-181	8" PINE	PROTECT
T-182	15" PINE	PROTECT
T-183	17" PINE	PROTECT
T-184	13" PINE	PROTECT
T-185	11" PINE	PROTECT
T-186	10" PINE	PROTECT
T-187	11" PINE	PROTECT
T-188	9" PINE	PROTECT
T-189	13" PINE	PROTECT
T-190	11" PINE	PROTECT
T-191	8" PINE	PROTECT
T-192	8" PINE	PROTECT
T-193	16" PINE	PROTECT
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T-202	18" PINE	PROTECT
T-203	17" PINE	PROTECT
T-204	19" PINE	PROTECT
T-205	18" PINE	PROTECT
T-206	16" OAK	PROTECT
T-207	15" PINE	PROTECT
T-208	20" PINE	PROTECT
T-209	12" PINE	PROTECT
T-210	10" OAK	PROTECT
T-211	10" OAK	PROTECT
T-212	13" PINE	PROTECT
T-213	18" PINE	PROTECT
T-214	19" PINE	PROTECT
T-215	18" PINE	PROTECT
T-216	18" PINE	PROTECT
T-217	17" PINE	PROTECT
T-218	19" PINE	PROTECT
T-219	19" PINE	PROTECT
T-220	18" PINE	PROTECT
T-221	15" PINE	PROTECT
T-222	18" PINE	PROTECT
T-223	10" PINE	PROTECT
T-224	15" PINE	PROTECT
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T-245	10" OAK	PROTECT
T-246	8" OAK	PROTECT
T-247	6" OAK	PROTECT
T-248	6" OAK	PROTECT
T-249	18" OAK	PROTECT
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T-255	10" OAK	PROTECT
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T-329	16" PINE	PROTECT
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T-429	9" OAK	PROTECT
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T-437	12" OAK	PROTECT
T-438	18" PINE	PROTECT
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T-448	19" PINE	PROTECT
T-449	20" PINE	PROTECT
T-450	16" PINE	PROTECT
T-451	17" PINE	PROTECT
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T-455	16" PINE	PROTECT
T-456	18" PINE	PROTECT
T-457	15" PINE	PROTECT
T-458	14" PINE	PROTECT
T-459	9" BAY	PROTECT
T-460	15" PINE	PROTECT
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T-462	19" PINE	PROTECT
T-463	18" PINE	PROTECT
T-464	26" PINE	PROTECT
T-465	21" PINE	PROTECT
T-466	16" PINE	PROTECT
T-467	21" PINE	PROTECT
T-468	12" OAK	PROTECT
T-469	13" OAK	PROTECT
T-470	10" OAK	PROTECT
T-471	11" OAK	PROTECT
T-472	13" OAK	PROTECT
T-473	10" OAK	PROTECT
T-474	16" PINE	PROTECT
T-475	9" OAK	PROTECT
T-476	15" PINE	PROTECT
T-477	15" PINE	PROTECT
T-478	14" PINE	PROTECT
T-479	14" OAK	PROTECT
T-480	11" OAK	PROTECT
T-481	13" PINE	PROTECT
T-482	15" PINE	PROTECT
T-483	18" PINE	PROTECT
T-484	18" PINE	PROTECT
T-485	15" PINE	PROTECT
T-486	17" PINE	PROTECT
T-487	23" PINE	PROTECT
T-488	17" PINE	PROTECT
T-489	13" PINE	PROTECT
T-490	23" PINE	PROTECT
T-491	28" PINE	PROTECT
T-492	27" OAK	REMOVE
T-493	13" OAK	PROTECT
T-494	8" OAK	PROTECT
T-495	22" OAK	REMOVE
T-496	12" OAK	REMOVE
T-497	11" OAK	REMOVE
T-498	12" OAK	REMOVE
T-499	16" PINE	REMOVE
T-500	31" OAK	PROTECT
T-501	12" PINE	PROTECT
T-502	16" OAK	PROTECT
T-503	6" MISC	PROTECT
T-504	5" MISC	PROTECT
T-505	6" PINE	PROTECT
T-506	4" MAGNOLIA	PROTECT
T-507	6" PINE	PROTECT
T-508	9" MISC	PROTECT
T-509	9" MAGNOLIA	PROTECT
T-510	8" MISC	PROTECT
T-511	ORNAMENTAL	PROTECT
T-512	ORNAMENTAL	PROTECT
T-513	ORNAMENTAL	PROTECT
T-514	6" OAK	PROTECT
T-515	5" OAK	PROTECT
T-516	34" OAK	PROTECT
T-517	47" OAK	PROTECT
T-518	17" OAK	PROTECT
T-519	16" PINE	PROTECT
T-520	17" PINE	PROTECT
T-521	18" PINE	PROTECT
T-522	15" PINE	PROTECT
T-523	15" PINE	PROTECT
T-524	15" PINE	PROTECT
T-525	14" PINE	PROTECT
T-526	14" PINE	PROTECT
T-527	14" PINE	PROTECT
T-528	11" OAK	PROTECT
T-529	17" PINE	PROTECT
T-530	19" PINE	PROTECT
T-531	19" PINE	PROTECT
T-532	9" OAK	PROTECT
T-533	20" PINE	PROTECT
T-534	15" PINE	PROTECT
T-535	17" PINE	PROTECT
T-536	19" PINE	PROTECT
T-537	13" PINE	PROTECT
T-538	12" OAK	PROTECT
T-539	15" PINE	PROTECT
T-540	12" PINE	PROTECT
T-541	13" PINE	PROTECT
T-542	16" PINE	PROTECT
T-543	15" PINE	PROTECT
T-544	11" OAK	PROTECT
T-545	8" OAK	PROTECT
T-546	13" PINE	PROTECT
T-547	15" PINE	PROTECT
T-548	15" OAK	PROTECT
T-549	15" PINE	PROTECT
T-550	18" PINE	PROTECT
T-551	21" PINE	PROTECT
T-552	21" PINE	PROTECT
T-553	17" PINE	PROTECT
T-554	16" PINE	PROTECT
T-555	28" PINE	PROTECT
T-556	15" PINE	PROTECT
T-557	18" PINE	PROTECT
T-558	19" PINE	PROTECT
T-559	17" PINE	PROTECT
T-560	16" PINE	PROTECT
T-561	14" PINE	PROTECT
T-562	16" PINE	PROTECT
T-563	16" PINE	PROTECT
T-564	16" PINE	PROTECT
T-565	15" PINE	PROTECT
T-566	28" PINE	PROTECT
T-567	13" PINE	PROTECT
T-568	20" PALM	PROTECT

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF ALL GOVERNING AUTHORITIES.

2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AGENCIES.

3. THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE UTILITIES AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

4. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, SANITARY SEWER, GAS, TELEPHONE, CABLE TELEVISION, AND POWER COMPANIES 10 DAYS IN ADVANCE THAT HE INTENDS TO START WORK IN A SPECIFIED AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE OR RIGHT-OF-WAY.

5. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND STRUCTURES, WHICH ARE NOT IN SERVICE AS NECESSARY FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. THESE INCLUDE PIPES, VALVES, DRAINAGE STRUCTURES, ETC., AS INDICATED ON THE CONTRACT PLANS. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER AND ENGINEER OF ALL DISCOVERED UNDERGROUND STRUCTURES WHICH ARE IN CONFLICT WITH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS AND ARE NOT INDICATED ON THE CONTRACT PLANS OR LOCATED IN THE FIELD BY UTILITIES IN ACCORDANCE WITH GENERAL NOTES.

6. THE RELOCATION OF OBSTRUCTIONS OWNED BY PRIVATE PROPERTY OWNERS, SUCH AS MAIL BOXES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO MUST COORDINATE WITH THE PROPERTY OWNER.

7. THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH FDOT STANDARD INDEX 600 (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS.

8. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK, IN ACCORDANCE WITH APPLICABLE MUTCD INDEX.

9. ALL AREAS, NOT PAVED, DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED BY SODDING. CENTIPEDE OR ST. AUGUSTINE SOD SHALL BE PLACED, WATERED, FERTILIZED W/APPROPRIATE SOIL AMENDMENTS IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS AND THESE CONSTRUCTION DOCUMENTS.

10. ALL EXCESS MATERIAL SHALL BE HAULED AWAY AND DISPOSED OF APPROPRIATELY AT THE CONTRACTOR'S EXPENSE.

11. CONSTRUCTION AROUND TREES SHALL BE DONE IN A MANNER TO MINIMIZE DAMAGE TO THE TREE AND ITS ROOT SYSTEM.

12. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE EXTENT OF CLEARING AND GRUBBING REQUIRED.

13. ALL OF THE DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

14. THE CONTRACTOR IS TO COORDINATE WITH THE RESPONSIBLE UTILITY PROVIDER FOR PROTECTION/HOLDING OF UTILITY POLES, GUY WIRES, AND GUY ANCHORS IN AREAS OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE THE COST OF PROTECTING UTILITY POLES IN THEIR OVERALL PRICE TO THE OWNER.

15. A SEPARATE PERMIT SHALL BE REQUIRED FOR ALL SIGNAGE AND SHALL MEET CITY OF GULF BREEZE LDC.

16. THE OWNER/CONTRACTOR SHALL COORDINATE ANY ANTICIPATED COMMENCEMENT OF CONSTRUCTION WITH THE ENGINEER OF RECORD. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE OWNER IS RESPONSIBLE FOR SUBMITTING THE 'CONSTRUCTION COMMENCEMENT NOTICE FORM' 62-346.900(3).

17. UPON SUBSTANTIAL COMPLETION, THE OWNER/CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD IS RESPONSIBLE FOR INSPECTION OF THE PERMITTED FACILITY FOR COMPLIANCE WITH THE APPROVED PERMIT. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'AS BUILT CERTIFICATION FORM' 62-346.900(4) WITHIN 30 DAYS AFTER WORK IS DEEMED COMPLETE.

18. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'REQUEST FOR CONVERSION OF STORMWATER MANAGEMENT PERMIT CONSTRUCTION PHASE TO OPERATION AND MAINTENANCE PHASE FORM' 62-346.900(6). THIS FORM SHALL BE SUBMITTED CONCURRENTLY WITH THE AS BUILT CERTIFICATION.

19. THE OPERATION AND MAINTENANCE OF THE FACILITY WILL BE THE RESPONSIBILITY OF THE OWNER, AS IN ACCORDANCE WITH THE APPROVED PERMIT.

20. THE CONTRACTOR SHALL NOTIFY FDOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHTS-OF-WAY.

DEMOLITION NOTES:

1. ALL DEBRIS RESULTING FROM PROPOSED DEMOLITION WILL BE DISPOSED OF IN A LEGAL MANNER AND WILL CONFORM TO ANY AND ALL STATE AND LOCAL REGULATIONS AND/OR ORDINANCES WHICH GOVERN SUCH ACTIVITIES.

2. THE CONTRACTOR IS TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE RELOCATION WITH THE APPROPRIATE UTILITY OWNER AS NECESSARY. ANY AND ALL UTILITIES ENCOUNTERED DURING DEMOLITION WILL BE PROTECTED AND/OR RELOCATED AT THE DISCRETION OF THEIR PROSPECTIVE OWNERS.

3. NO DEMOLITION DEBRIS WILL BE STOCKPILED OR GATHERED ON THE PROJECT SITE OR ADJACENT PROPERTIES, WITHOUT PRIOR AUTHORIZATION OF THE OWNER.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL ESTABLISH EROSION CONTROL PRIOR TO COMMENCING ANY CONSTRUCTION OR DEMOLITION ON THE PROJECT. THE EROSION CONTROL BARRIER PLACEMENT AS INDICATED IN THE PLANS IS A SUGGESTION ONLY, AND DOES NOT RELIEVE THE CONTRACTOR FROM CONTROLLING EROSION AND SEDIMENT WITHIN THE PROJECT SITE. EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MAINTAINED DURING THE ENTIRE TIME OF CONSTRUCTION AND DEMOLITION ON THE PROJECT.

2. AN EROSION CONTROL BARRIER IS TO BE PLACED ALONG ALL BOUNDARIES OF THE PROJECT AREA AS SHOWN BEFORE CONSTRUCTION BEGINS AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS FINISHED AND ACCEPTED AND FINAL STABILIZATION IS COMPLETE.

3. THE CONTRACTOR IS TO INSPECT AND REESTABLISH EROSION CONTROL BARRIERS WEEKLY AND AFTER EVERY SIGNIFICANT STORM EVENT.

TREE PROTECTION NOTES:

1. NO UN-PERMITTED GRADING OR CLEARING BY HEAVY EQUIPMENT SHOULD HAPPEN UNDER THE DRIPLINE OF PROTECTED TREES ON THE SITE.

2. STORAGE OF HEAVY EQUIPMENT SHALL NOT OCCUR UNDER THE DRIPLINE OF PROTECTED TREES ON THE SITE.

3. NO PROTECTED TREES INDICATED FOR PRESERVATION SHALL BE REMOVED, DESTRUCTIVELY DAMAGED, MUTILATED, RELOCATED, DISFIGURED, DESTROYED, CUT DOWN OR EXCESSIVELY PRUNED.

TREE REMOVAL CHART OF PROTECTED TREES

SIZE	REMOVED	MITIGATION REQUIREMENTS	REPLACE
12"-19"	31	2 TREES PER 1 REMOVED	62
20"-29"	15	4 TREES PER 1 REMOVED	60
> 30"	0	6 TREES PER 1 REMOVED	0
TOTALS	46		122

TREE CREDIT SCHEDULE

SIZE	PROTECTED	CREDIT REQUIREMENTS	CREDITS
12"-19"	313	1 TREE PER	313
20"-29"	55	2 TREE PER	110
> 30"	10	3 TREE PER	30
TOTALS	378		453

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PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
TREE CHART AND GENERAL NOTES

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C0.3

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

4. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.

*5. A BITUMINOUS CONCRETE BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE BITUMINOUS CONCRETE BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.

*6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL, ACCORDING TO STATE STANDARDS.

*7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).

*8. A CRUSHED LIMEROCK, VEHICLE WHEEL–CLEANING BLANKET SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF–SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. BLANKET SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM), CRUSHED LIMEROCK 2 1/2 INCHES IN DIAMETER. SAID BLANKET SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND MAINTAINED IN GOOD ORDER.

9. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT
SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON–VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

*10. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

11. UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.

12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.

13. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS–OF–WAY WILL BE REMOVED IMMEDIATELY.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

15. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).

16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

17. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.

18. ALL CATCH BASIN INLETS SHALL BE PROTECTED WITH HAY BALES AS SHOWN ON DETAIL.

19. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING AND DOWNSTREAM SILTATION PROTECTION OF EACH STREAM CROSSING PRIOR TO EXCAVATING THE STREAM BED. PLAN SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTION PRIOR TO EACH STREAM CROSSING CONSTRUCTION.

20. ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

* WHERE APPLICABLE

TEMPORARY SEEDING DETAILS:

SEED BED PREPARATION:

SOIL TO BE THOROUGHLY PULVERIZED BY DISK–HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16–16–16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

SEED MIXTURE

CONSISTING OF ANNUAL RYE (LOLIUM MULTIFLORUM) AT A RATE OF 174 LBS/ACRE.

PERMANENT SOD DETAILS:

SODDING:

SOD SHALL BE WELL ROOT MATTED CENTIPEDE OR ST. AUGUSTINE GRASS COMMERCIALLY CUT TO A MINIMUM DIMENSION OF 12" x 24" A MAXIMUM OF 72 HOURS PRIOR TO PLACEMENT. SOD SHALL BE LIVE, FRESH AND UNINJURED, REASONABLY FREE OF WEEDS AND OTHER GRASSES, WITH A HEAVY SOIL MAT ADHERING TO THE ROOT SYSTEM. SOD SHALL BE GROWN, CUT, AND SUPPLIED BY A STATE CERTIFIED GROWER.

TRAFFIC CONTROL STANDARDS:

1. CONSTRUCTION TRAFFIC SHALL BE RESTRICTED TO ONSITE ACCESS BY MEANS SO DESIGNATED BY THE ENGINEER, POLICE/SHERIFF DEPARTMENT, ESCAMBIA COUNTY HIGHWAY DEPARTMENT, AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.
2. TRAFFIC DURING WET WEATHER SHALL BE MINIMIZED AND APPROPRIATE ROADWAY AND SITE CLEAN–UP SHALL BE PROVIDED BY THE CONTRACTOR AS SOON AS WEATHER CONDITIONS PERMIT.

TREE PROTECTION:

1. DAMAGED TRUNKS OR EXPOSED ROOTS WILL BE PAINTED IMMEDIATELY WITH A GOOD GRADE OF "TREE PAINT".

2. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA PAINTED IMMEDIATELY WITH A GOOD GRADE OF TREE PAINT.

DUST CONTROL:

1. ALL AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.

2. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATION COVER.

3. IN EVENT OF EMERGENCY CONDITIONS, TILLAGE WILL BE SATISFACTORY FREE BEFORE SOIL BLOWING STARTS.

4. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 102–5, LATEST EDITION.

PROPOSED SEQUENCE OF CONSTRUCTION:

1. THE INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.

2. CLEAR AND REMOVE ALL EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. ALL REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND IS TO REMAIN IN ITS NATURAL STATE. TOPSOIL IN AREAS TO BE DISTURBED IS TO BE STRIPPED TO A MINIMUM DEPTH OF SIX (6) INCHES AND STOCKPILED SEPARATELY FROM FROM OTHER EXCAVATED SOIL(S)

3. THE IMMEDIATE INSTALLATION OF ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES.

4. PERFORM ALL DEMOLITION WORK.

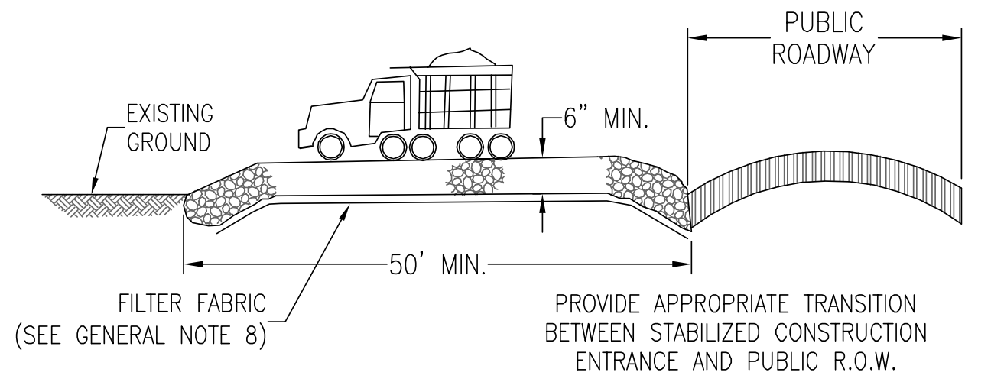
5. CONSTRUCT ALL UNDERGROUND UTILITIES AND STORM DRAIN SYSTEMS.

6. CONSTRUCT ROADS (SUBGRADE, CURB & GUTTER, BASE, PAVEMENT, SIDEWALKS AND LANDSCAPING).

7. COMPLETE STORMWATER PONDS.

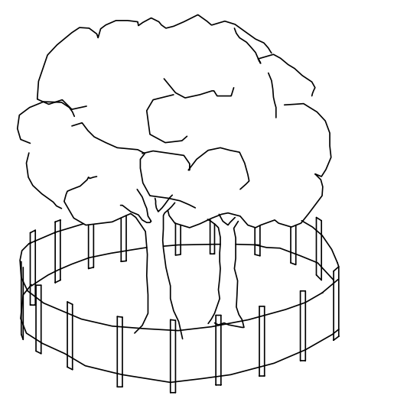
8. UPON THE COMPLETION OF THE CONSTRUCTION ACTIVITIES, PROVIDE RESTORATION, FINE GRADE REMAINDER OF SITE, RESPREAD STOCKPILED TOPSOIL AND STABILIZE WITH PERMANENT VEGETATIVE COVER AND LANDSCAPING.

9. THE REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.



STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



NOTE:
ALL PROTECTED TREES AS SHOWN ON THE PLANS TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING AT THE DRIP LINE OF EACH PROTECTED TREE BEFORE WORKING IN THE VICINITY OF THE TREE.

TREE BARRICADE DETAIL

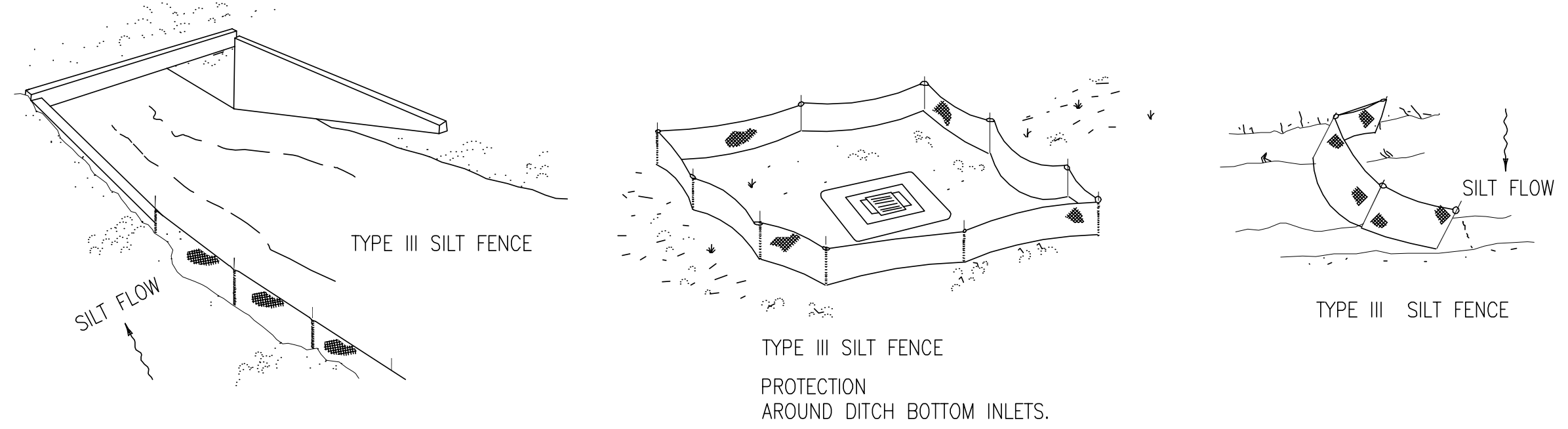
N.T.S.

DESCRIPTION:
FILTER BAGS WILL BE USED AS AN EFFECTIVE FILTER MEDIUM TO CONTAIN SAND, SILT AND FINES WHEN TRENCH DEWATERING. THE WETLAND FILTER BAG CONTAINS THESE MATERIALS WHILE ALLOWING THE WATER TO FLOW THROUGH THE FABRIC.

INSTALLATION:
WETLAND FILTER BAGS MAY REPLACE HAY BALE CORRALS DURING TRENCH DEWATERING, AT THE DISCRETION OF THE ENGINEER INSPECTOR. TO INSURE PROPER INSTALLATION, FILTER BAGS WILL BE PLACED ON RELATIVELY FLAT TERRAIN FREE OF BRUSH AND STUMPS TO AVOID RUPTURES AND PUNCTURES. PROPER INSTALLATION REQUIRES CUTTING A SMALL HOLE IN THE CORNER OF THE BAG, INSERTING THE PUMP DISCHARGE HOSE, AND THEN SECURING THE DISCHARGE HOSE TO THE BAG WITH A HOSE CLAMP. FILTER BAGS WILL BE PLACED AS FAR AWAY FROM FLOWING STREAMS AND WETLANDS AS POSSIBLE.

MAINTENANCE:
PRIOR TO REMOVING A BAG FROM THE HOSE, THE BAG WILL BE TIED OFF BELOW THE END OF THE HOSE ALLOWING THE BAG TO DRAIN. DRAINAGE WILL NOT BE ALLOWED THROUGH THE INLET HOLE. TO AVOID RUPTURE, THE BAGS WILL BE ATTENDED AND PUMPING RATES MONITORED. ONCE THE BAG IS INFLATED TO A HEIGHT OF 4 FEET, PUMPING WILL STOP TO AVOID RUPTURE. FILTER BAGS USED DURING CONSTRUCTION WILL BE BUNDLED AND REMOVED FOR PROPER DISPOSAL.

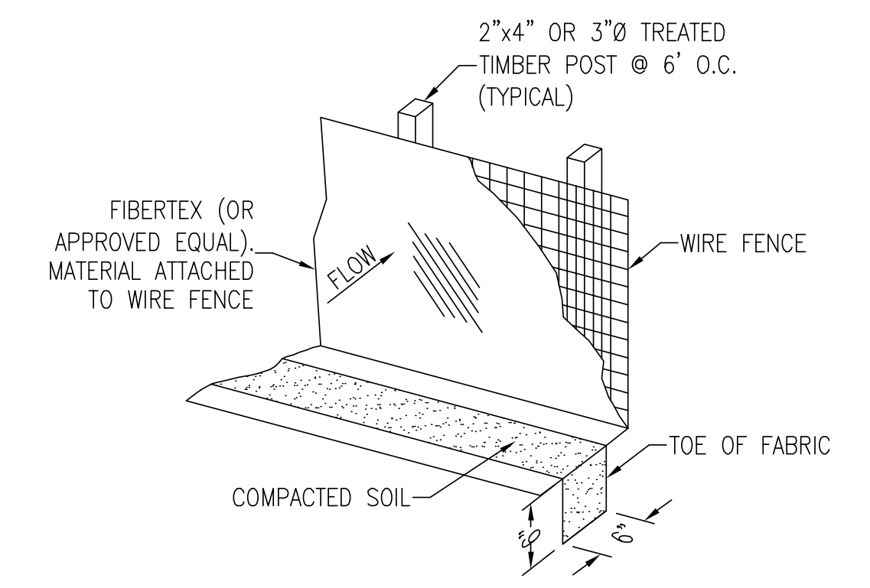
SPECIFICATION:
FILTER BAGS ARE CONSTRUCTED OF NON–WOVEN GEOTEXTILE FABRIC. A MAXIMUM OF ONE SIX INCH DISCHARGE HOSE WILL BE ALLOWED PER FILTER BAG. BAG CAPACITY WILL BE EXCEEDED BEYOND 2,000 GALLONS PER MINUTE. TYPICAL BAG DIMENSIONS ARE 15 FEET BY 13.25 FEET. TO HELP PREVENT PUNCTURES, GEOTEXTILE FABRIC WILL BE PLACED BENEATH THE FILTER BAG WHEN USED IN WOODED LOCATIONS. UNATTENDED FILTER BAGS WILL BE ENCIRCLED WITH A HAY BALE OR SILT FENCE CORRAL. HOSE CLAMPS WILL BE USED TO SECURE THE DISCHARGE HOSE, WIRE OR STRING WILL NOT BE USED.



SILT FENCE APPLICATIONS

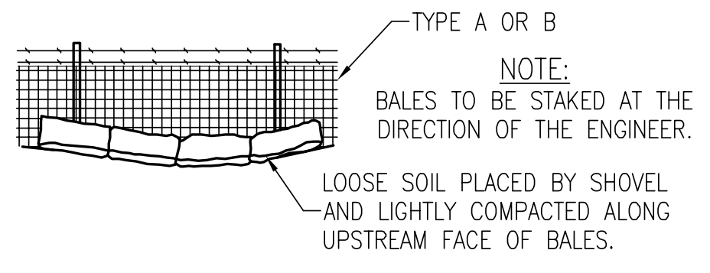
N.T.S.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



SILT FENCE DETAIL

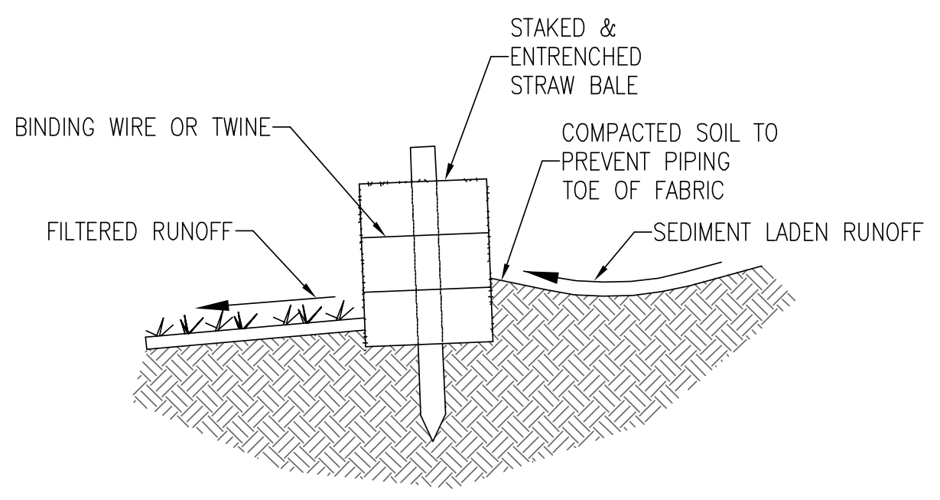
N.T.S.



NOTE:
BALES TO BE STAKED AT THE DIRECTION OF THE ENGINEER.

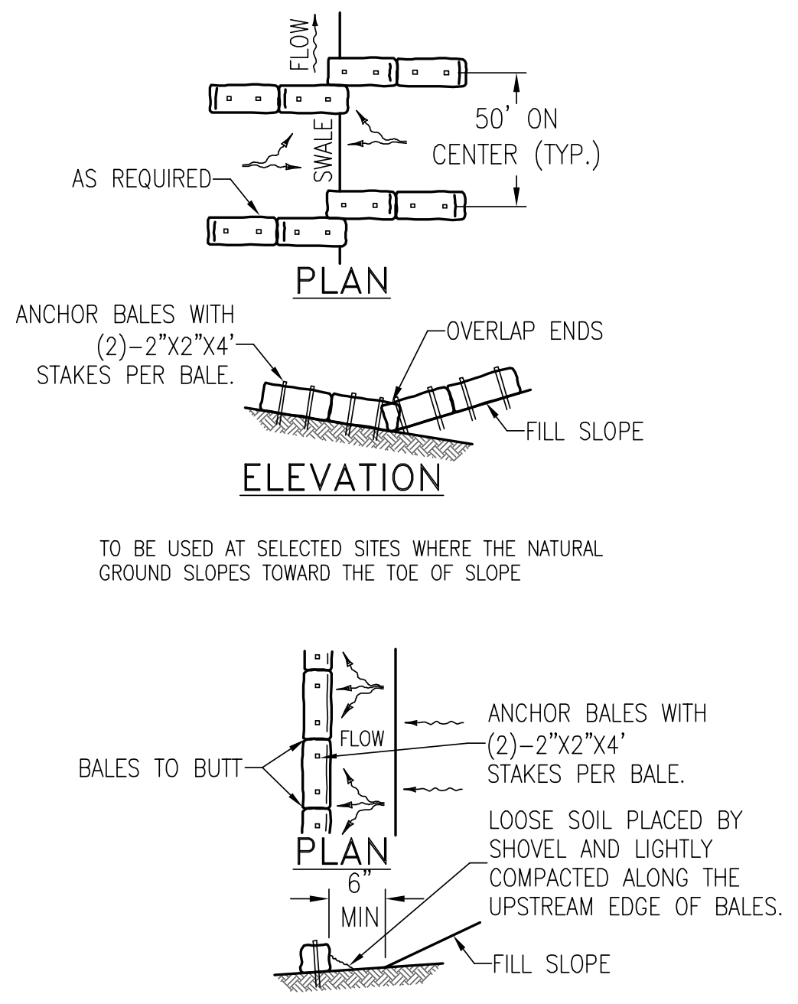
STRAW BALES BACKED BY FENCE

N.T.S.



STRAW BALE DETAIL

N.T.S.

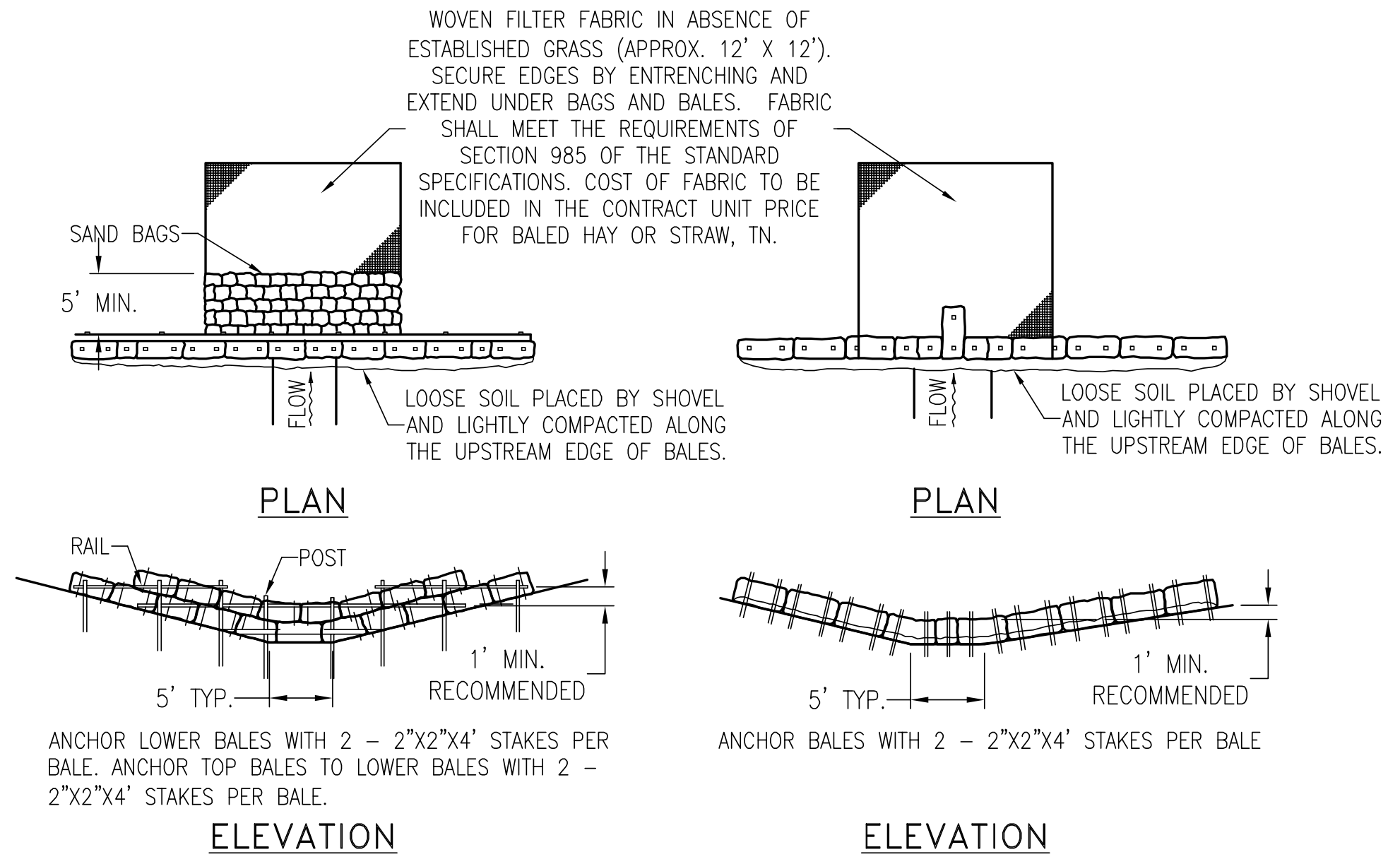


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

N.T.S.



WOVEN FILTER FABRIC IN ABSENCE OF ESTABLISHED GRASS (APPROX. 12' X 12'). SECURE EDGES BY ENTRENCHING AND EXTEND UNDER BAGS AND BALES. FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 985 OF THE STANDARD SPECIFICATIONS. COST OF FABRIC TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, TN.

ANCHOR LOWER BALES WITH 2 – 2"X2"X4' STAKES PER BALE. ANCHOR TOP BALES TO LOWER BALES WITH 2 – 2"X2"X4' STAKES PER BALE.

ELEVATION

ANCHOR BALES WITH 2 – 2"X2"X4' STAKES PER BALE

ELEVATION

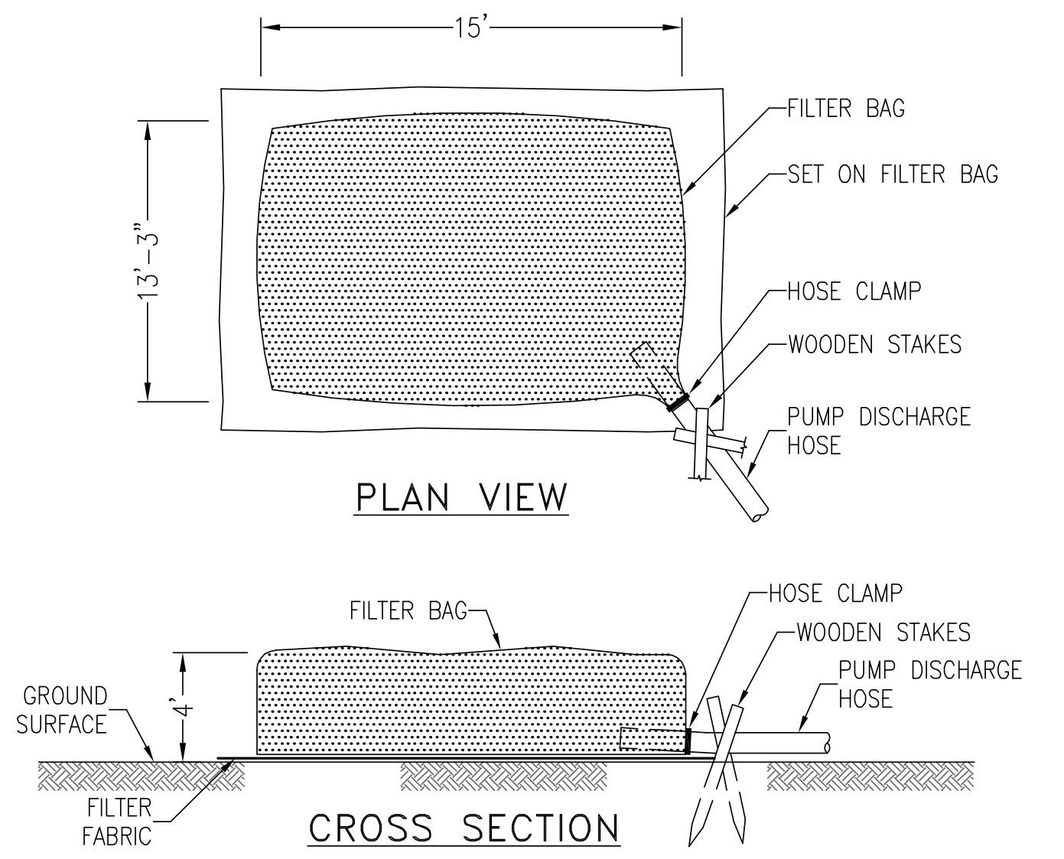
APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART I, SHEET 1 OF 3, INDEX NO. 102

TYPE II

TYPE I

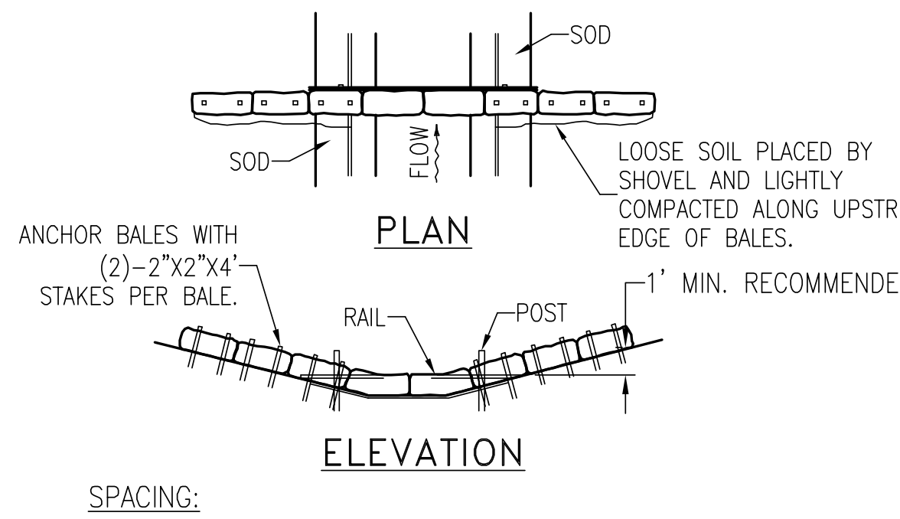
BARRIER FOR UNPAVED DITCH

N.T.S.



FILTER BAG DETAIL FOR TRENCH DEWATERING OPERATIONS

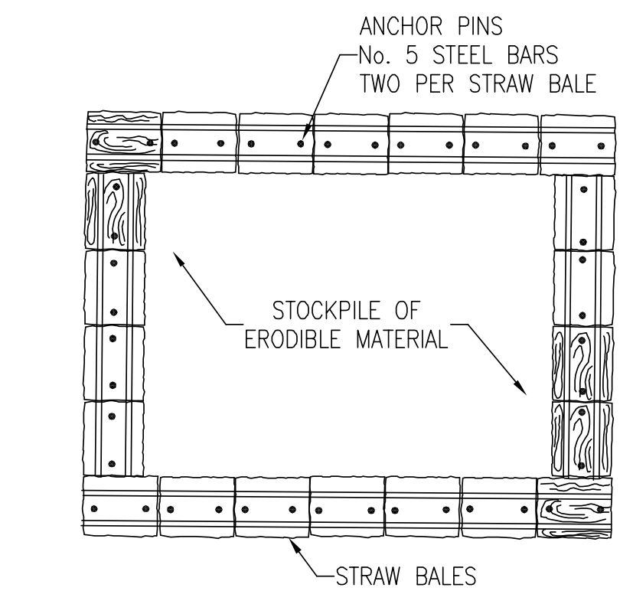
N.T.S.



SPACING:
BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102

BARRIER FOR PAVED DITCH

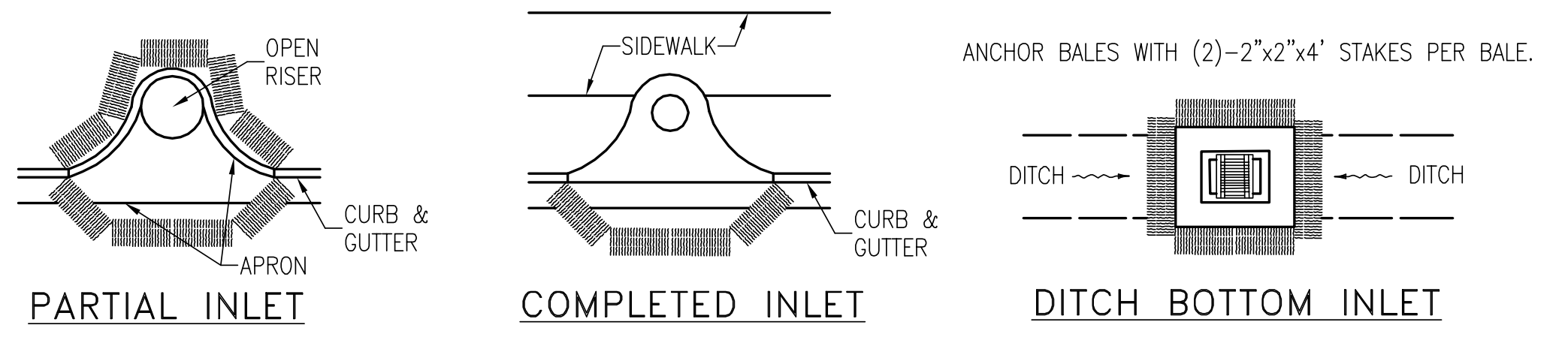
N.T.S.



MATERIAL STOCKPILE DETAIL

N.T.S.

ANCHOR BALES WITH (2)–2"x2"x4' STAKES PER BALE.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

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EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
EROSION CONTROL DETAILS

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C0.4

STORM WATER POLLUTION PREVENTION PLAN

1.0 BACKGROUND & REQUIREMENTS:

1.1 Introduction:

The referenced support documentation for this Storm Water Pollution Prevention Plan (SWPPP) is the United States Environmental Protection Agency's (EPA) Storm Water Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices Summary Guidance (EPA 833-R-92-001) and Storm Water Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices (EPA 832-R-92-005). This SWPPP is designed to protect onsite and adjacent natural resources, including but not limited to, wetlands, marshes, bayous and bays, while preserving wildlife and archeological resources.

An Environmental Resource Permit Application has been submitted to the NWFWMD May 2011

1.2 Notice of Intent (NOI):

Rule 62-621.300(4), FAC requires the construction operator of a site that disturbs one or more acres to obtain coverage from the Generic Permit for Stormwater Discharge from Large and Small Construction Activities. The contractor is required to submit a Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities (FDEP Form 62-621.300(4)(b)) along with the appropriate application fee to the following address 48 hours prior to commencing construction:

NPDES Stormwater Notices Center, MS # 2510
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

This form can be obtained from FDEP's website (www.dep.state.fl.us) or by contacting FDEP. Please note that the current application fee is $300; however, this fee is subject to change without notice. Always refer to the most current version of Rule 62-4.050(4)(d), FAC to confirm the amount before submitting payment. If construction activity exceeds five years, the contractor must re-apply for coverage.

1.3 Stormwater Pollution Prevention Plan (SWPPP):

The contractor is required to certify this Stormwater Pollution Prevention Plan (SWPPP) below prior to submitting the NOI. This SWPPP is not required to be submitted with the NOI, but is required to be kept on site during all phases of construction. Because erosion and sediment controls and construction methods vary significantly from contractor to contractor, the contractor can propose alternative methods to this SWPPP that are equal or better at controlling erosion and sedimentation. At a minimum, the contractor must follow the erosion control plan specified in the construction plans and documents. Any modifications to this SWPPP must be documented and kept with the plan as part of the records keeping process to be in full compliance with the CGP.

1.4 Contractor's Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print & Sign Name	Company & Address
______________________	______________________
______________________	______________________
Name & Title (Print)	______________________
______________________	
Signature Date	

Responsibilities (General Contractor, Site Contractor, Subcontractor, Other):

____

1.5 Notice of Termination (NOT):

The contractor is required to submit a Notice of Termination of Generic Permit Coverage (FDEP Form 62-621.300(6)) upon construction completion to discontinue permit coverage. The NOT is to be submitted to the following address:

NPDES Stormwater Notices Center, MS # 2510
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

This form can be obtained from FDEP's website (www.dep.state.fl.us) or by contacting FDEP. The NOT can not be submitted until all disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time. Final stabilization means that all soil disturbing activities at the site have been completed and that a uniform perennial vegetative cover with a density of 70 percent of the cover for unpaved areas and areas not covered by permanent structures has been established, or equivalent stabilization measures have been employed. If construction activity exceeds five years, the contractor must re-apply for coverage.

1.6 Application Information:

Project Address: 800 Shoreline Dr.
Gulf Breeze, FL
32561

Latitude: N 30°21'17.00"
Longitude: E 87°10'39.95"

Water Management District: Northwest Florida (NWFWMD)

(APPLIED FOR)

MS4 Operator Name: City of Gulf Breeze

Receiving Water Name: English Navy Cove / Pensacola Bay

2.0 SITE DESCRIPTION:

2.1 Nature of Construction Activities:

Proposed improvements include a 24,500 SF building addition to the existing Gulf Breeze Community Center and associated asphalt parking and stormwater ponds.

2.2 Sequence of Major Soil Disturbing Activities:

The following sequence of major activities shall be followed unless the contractor can propose an alternative that is equal to or better at controlling erosion and sedimentation. The detailed sequence for the entire project can vary significantly from contractor to contractor. The contractor is responsible for documenting any changes.

1. Clear, grub and perform all demolition work.
2. Complete rough grading of the pond and direct all stormwater runoff to the pond(s).
3. Construct all underground utilities and storm drain system.
4. Construct roads (subgrade, curb & gutter, base, pavement, sidewalks, and landscaping).
5. Complete stormwater ponds.

2.3 Area Estimates:

Onsite Area: N/A acres
Offsite Area: N/A acres
Total Area: 100+ acres
Area to be Disturbed: ± 6.0 acres

2.4 Runoff Data:

Runoff Coefficients (c):

Before: Total Composite c = <0.50

During: Varies between <0.50

After: Varies between <0.50

Total Composite c = <0.50

Soils Data:

The soils located at the site are predominately very loose to loose slightly silty sands. Groundwater was not encountered in the 15 ft to 20 ft deep test boring. For more detailed soils information, refer to the Geotechnical Services Report prepared by Universal Engineering Services.

Drainage Areas for Each Outfall:

Outfall Location	Total Area flowing to Pond	'c' coefficient
Natural depression northwest of proposed building addition (runoff is then pumped south to the bay).	100+ Acres	<0.50

2.5 Site Map:

The construction plans are to be used as the site maps. The location of the required information is described below. The sheet numbers for all the items discussed below are identified on the Key Sheet of the construction plans.

- Drainage Patterns: All drainage patterns are shown on the Grading & Drainage Plans.
- Approximate Slopes: Approximate slopes are shown on the Grading & Drainage Plan. Pond side slopes are shown on the pond cross-sections.
- Areas of Soil Disturbance: All demolition is shown on the Existing Site Conditions and Demolition and Erosion Control Plan Sheet. All proposed construction is shown on the remaining plans. Any areas where demolition work or permanent features are shown above or below ground will be disturbed.
- Areas not to be Disturbed: Any areas not showing demolition work or permanent features are assumed not to be disturbed. It will be the contractor's responsibility to indicate on the plans any of these areas that do get disturbed as well as any areas used for staging and materials storage.
- Locations of Controls: All proposed temporary controls and existing permanent controls are shown on the Existing Site, Demolition and Erosion Control Plan. All proposed permanent controls are shown on the remaining plans. It will be the contractor's responsibility to indicate the location of any other controls on the plans that are used during construction.
- Areas to be Stabilized: Permanent stabilization is shown on the plans. It will be the contractor's responsibility to indicate the location on the plans of all temporary stabilization practices used during construction.
- Surface Waters: N/A
- Discharge Points: Natural depression northwest of proposed building addition (runoff is then pumped south to the bay).

2.6 Receiving Waters:

English Navy Cove / Pensacola Bay

3.0 CONTROLS:

3.1 Erosion and Sediment Controls:

All erosion and sediment controls specified on the Demolition and Erosion Control Plan Sheets, and the Erosion Control Details shall be installed prior to any construction or demolition. Silt fencing and staked hay bales shall be installed along down-gradient limits.

Temporary seeding and mulching shall be applied after 14-day intervals of ceased disturbance activities that will exceed 20-day periods. Graded areas shall be stabilized with permanent seeding, mulching, and fertilizing, or sodding within five days of final grading. Landscaping, including sodding, shall be installed by an experienced Landscape Contractor. Proposed disturbed areas will not exceed 8 acres in any drainage area.

3.2 Stormwater Management:

Proposed stormwater management facilities for this site include:
Two dry retention ponds that are interconnected/equalized.

The proposed stormwater management facilities meet all stormwater treatment requirements and all rate control requirements set forth by the local and state regulatory agencies.

3.3 Other Controls:

Waste Disposal: The contractor is responsible for all waste disposal from the site. The contractor shall employ waste disposal practices that meet all local, state, and federal guidelines and prevent discharge of solid materials to waters of the United States. The Contractor is responsible for documenting this portion of the SWPPP.

Offsite Vehicle Tracking: If off site tracking of sediments by construction vehicles occurs, the contractor is required to install a Soil Tracking Prevention Device (STPD) as per FDOT Standard Index 106 at all exits to the site where sediment tracking is occurring. The Contractor is also responsible for documenting this portion of the SWPPP.

4.0 MAINTENANCE:

Controls shall be kept in full operating condition throughout all phases of construction until all disturbed areas are completely stabilized. Maintenance, repair records and repair requests shall be documented. Repairs and deficiencies shall be completed as soon as possible and within seven days after inspection. Any required changes that are not covered in the SWPPP shall also be made as soon as possible within seven days and documented.

5.0 INSPECTIONS:

Qualified personnel shall inspect the following items, but not limited to, at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater. Where sites have been finally stabilized, inspections shall be conducted at least once every month.

- Points of discharge to waters of the United States.
- Points of discharge to municipal separate storm sewer systems.
- Disturbed areas of the site that have not been finally stabilized.
- Areas used for storage of materials that are exposed to precipitation.
- Structural controls.
- Stormwater management systems.
- Locations where vehicles enter or exit the site.

6.0 NON-STORMWATER DISCHARGES:

The Contractor shall be responsible for reporting any hazardous substance spills that may equal or exceed a Reportable Quantity (RQ). Refer to EPA's List of Hazardous Substances and Reportable Quantities (EPA 40 CFR 302.4 & 117). This list can be obtained from EPA's website (www.epa.gov) or by contacting EPA. If an RQ release does occur the Contractor shall perform the following procedures:

- Notify the National Response Center immediately at 800-424-8802.
- Provide written description of the release within 14 days providing dates, cause and prevention methods to the regional EPA office.
- Modify the SWPPP as necessary to address added prevention methods.

7.0 IMPLEMENTATION CHECKLIST:

7.1 Records:

The Contractor shall maintain records of construction activities including, but not limited to:

- Dates when major grading activities occur.
- Dates when construction activities temporarily cease on a portion of the site.
- Dates when construction activities permanently cease on a portion of the site.
- Dates when stabilization measures are initiated on the site.

7.2 Inspection Reports:

The Contractor shall prepare inspection reports summarizing the following, but not limited to:

- Name of inspector.
- Qualifications of inspector.
- Measures/areas inspected.
- Observed conditions.
- Changes necessary to the SWPPP.

7.3 Releases of Reportable Quantities of Oil or Hazardous Materials:

The Contractor shall report any releases of reportable quantities of oil or hazardous materials if they occur as per the measures outlined in Section 6.0 of the SWPPP.

7.4 SWPPP Modification:

The Contractor shall modify the SWPPP as necessary to:

- Comply with minimum permit requirements when notified by FDEP that the plan does not comply.
- Address any changes in design, construction operations or maintenance, which has an effect on the potential for discharge of pollutants.
- Prevent reoccurrence of reportable quantity releases of hazardous material or oil.

8.0 TERMINATION CHECKLIST:

The following items shall be complete before submitting the NOT:

- All soil disturbing activities are complete.
- Temporary erosion and sediment control measures have been removed or will be removed at an appropriate time.
- All areas of the construction site not otherwise covered by permanent pavement or structure have been stabilized with uniform perennial vegetative cover with a density of 70% or equivalent measures have been employed.

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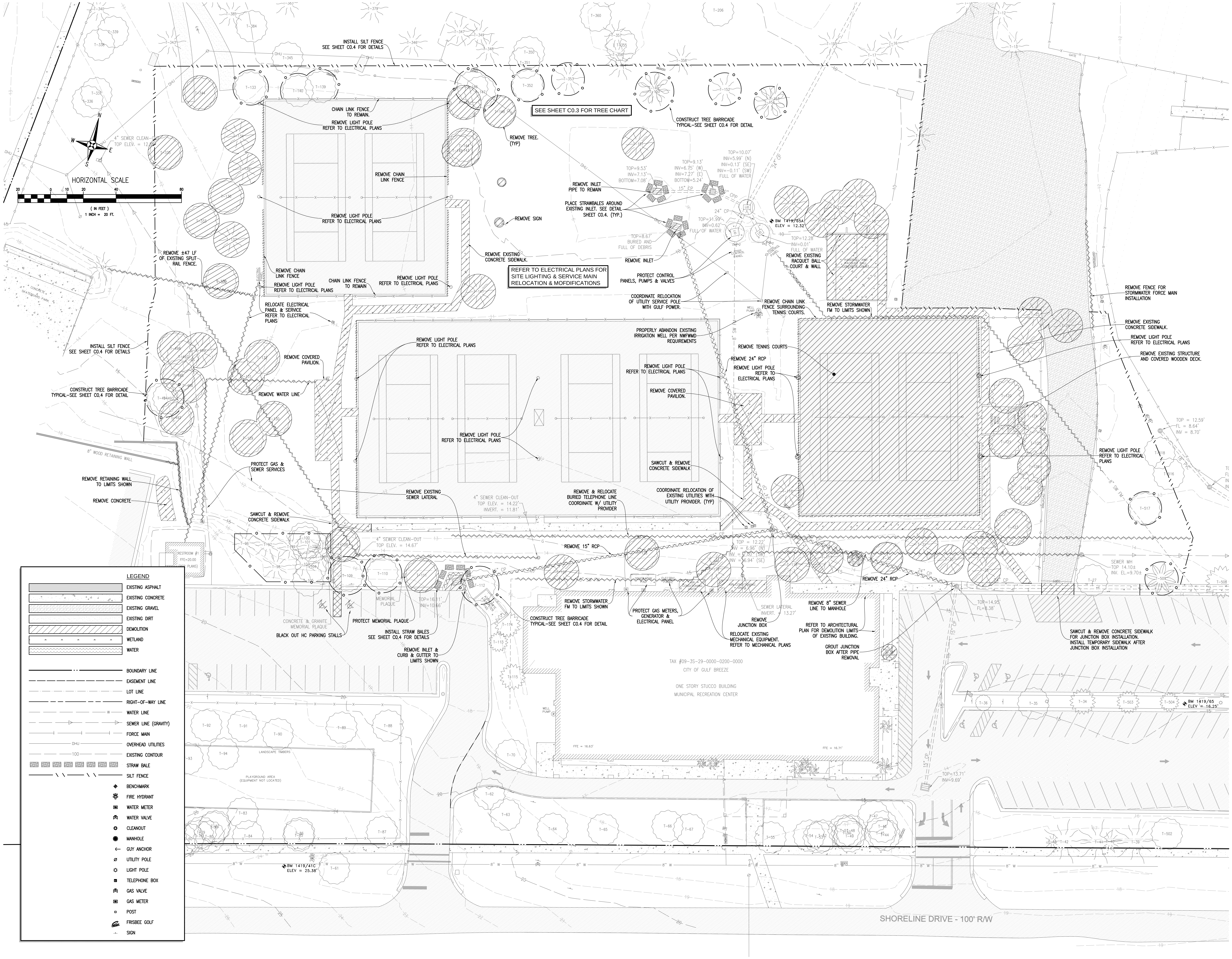
EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
NPDES - STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C0.5



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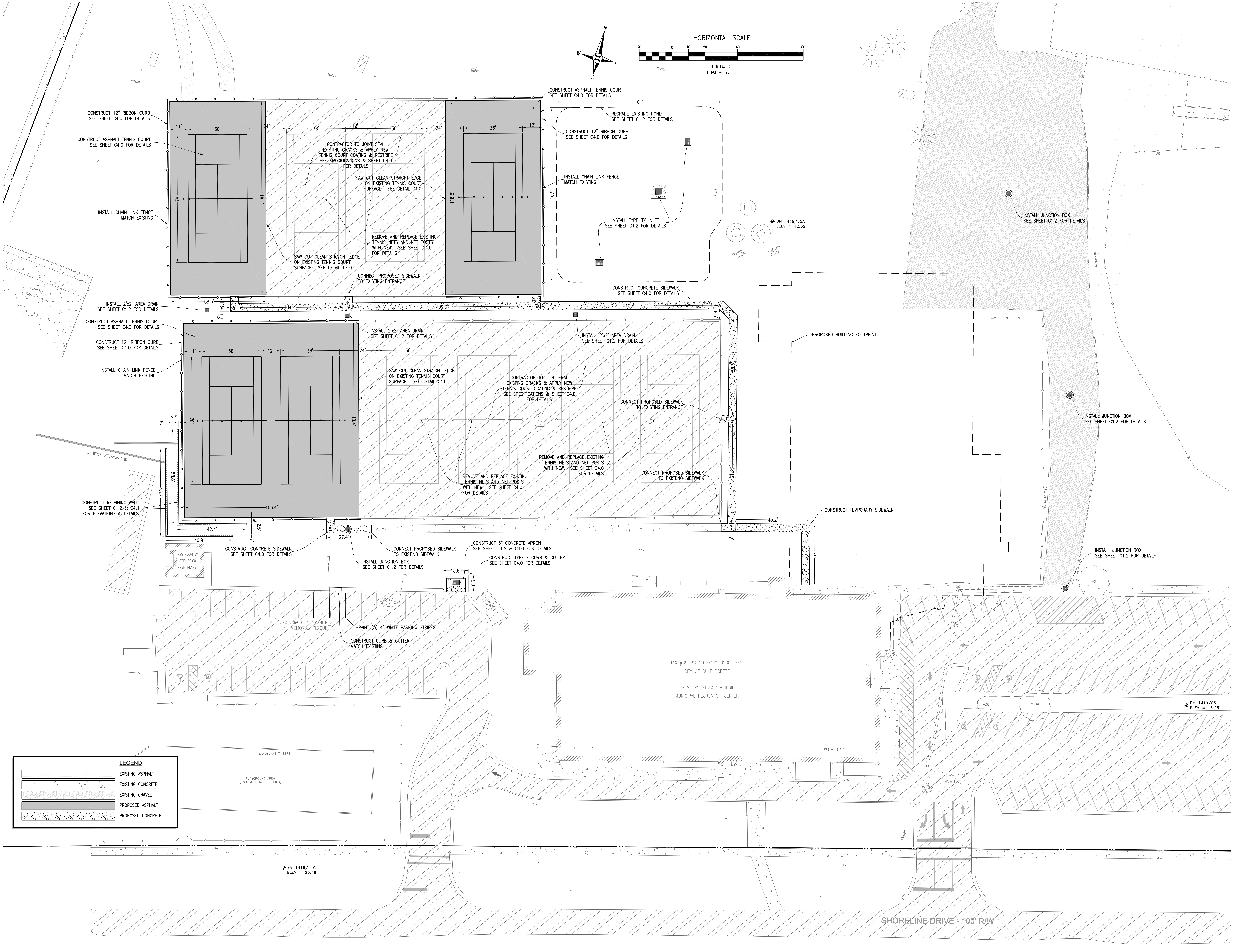
EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 1 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C1.0



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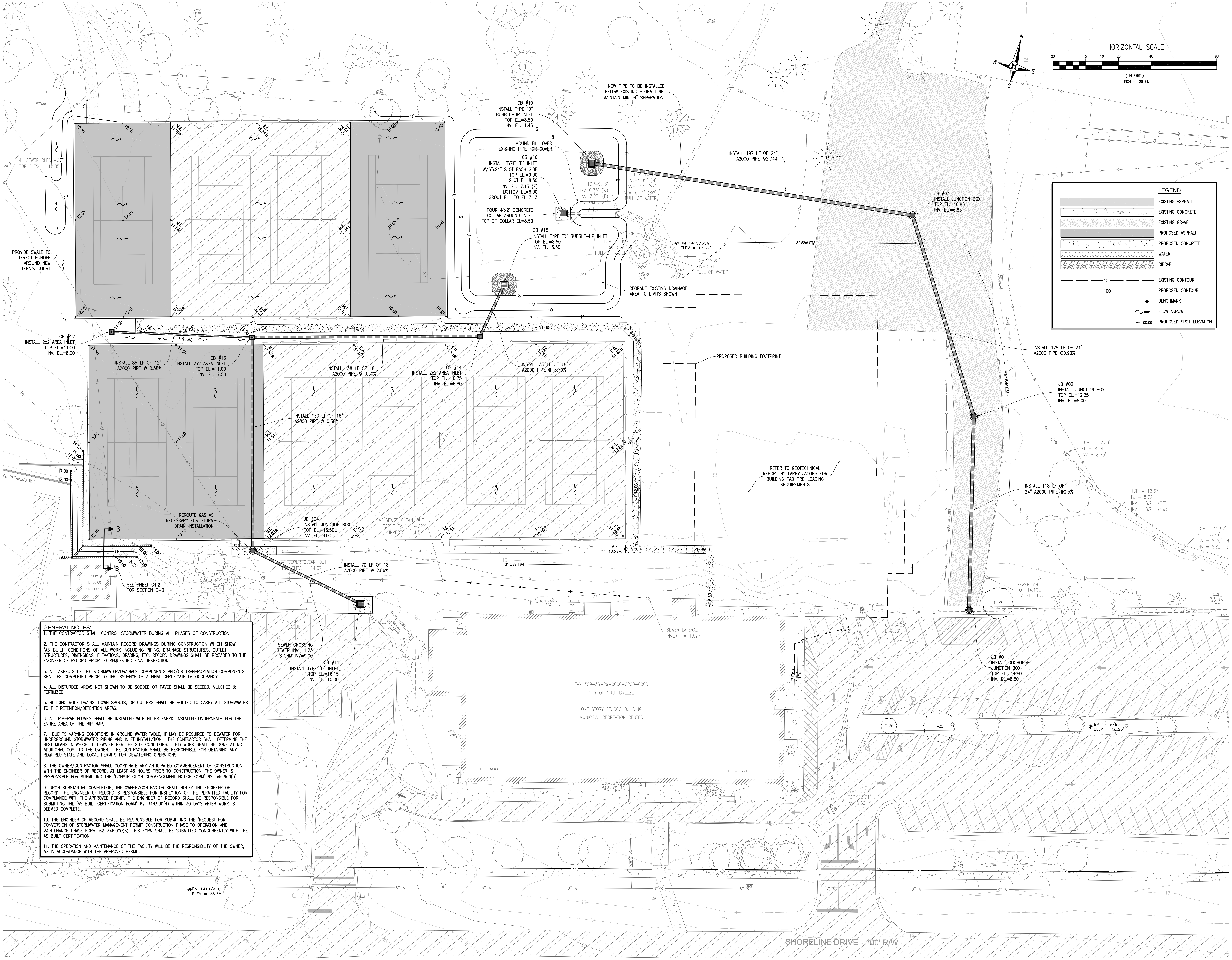
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 1 SITE LAYOUT & DIMENSION PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:

100% SUBMITTAL

SHEET
C1.1



GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION.

2. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.

3. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.

4. ALL DISTURBED AREAS NOT SHOWN TO BE SODDED OR PAVED SHALL BE SEEDED, MULCHED & FERTILIZED.

5. BUILDING ROOF DRAINS, DOWN SPOUTS, OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORMWATER TO THE RETENTION/DETENTION AREAS.

6. ALL RIP-RAP FLUMES SHALL BE INSTALLED WITH FILTER FABRIC INSTALLED UNDERNEATH FOR THE ENTIRE AREA OF THE RIP-RAP.

7. DUE TO VARYING CONDITIONS IN GROUND WATER TABLE, IT MAY BE REQUIRED TO DEWATER FOR UNDERGROUND STORMWATER PIPING AND INLET INSTALLATION. THE CONTRACTOR SHALL DETERMINE THE BEST MEANS IN WHICH TO DEWATER PER THE SITE CONDITIONS. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED STATE AND LOCAL PERMITS FOR DEWATERING OPERATIONS.

8. THE OWNER/CONTRACTOR SHALL COORDINATE ANY ANTICIPATED COMMENCEMENT OF CONSTRUCTION WITH THE ENGINEER OF RECORD. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE OWNER IS RESPONSIBLE FOR SUBMITTING THE 'CONSTRUCTION COMMENCEMENT NOTICE FORM' 62-346.900(3).

9. UPON SUBSTANTIAL COMPLETION, THE OWNER/CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD IS RESPONSIBLE FOR INSPECTION OF THE PERMITTED FACILITY FOR COMPLIANCE WITH THE APPROVED PERMIT. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'AS BUILT CERTIFICATION FORM' 62-346.900(4) WITHIN 30 DAYS AFTER WORK IS DEEMED COMPLETE.

10. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'REQUEST FOR CONVERSION OF STORMWATER MANAGEMENT PERMIT CONSTRUCTION PHASE TO OPERATION AND MAINTENANCE PHASE FORM' 62-346.900(6). THIS FORM SHALL BE SUBMITTED CONCURRENTLY WITH THE AS BUILT CERTIFICATION.

11. THE OPERATION AND MAINTENANCE OF THE FACILITY WILL BE THE RESPONSIBILITY OF THE OWNER, AS IN ACCORDANCE WITH THE APPROVED PERMIT.

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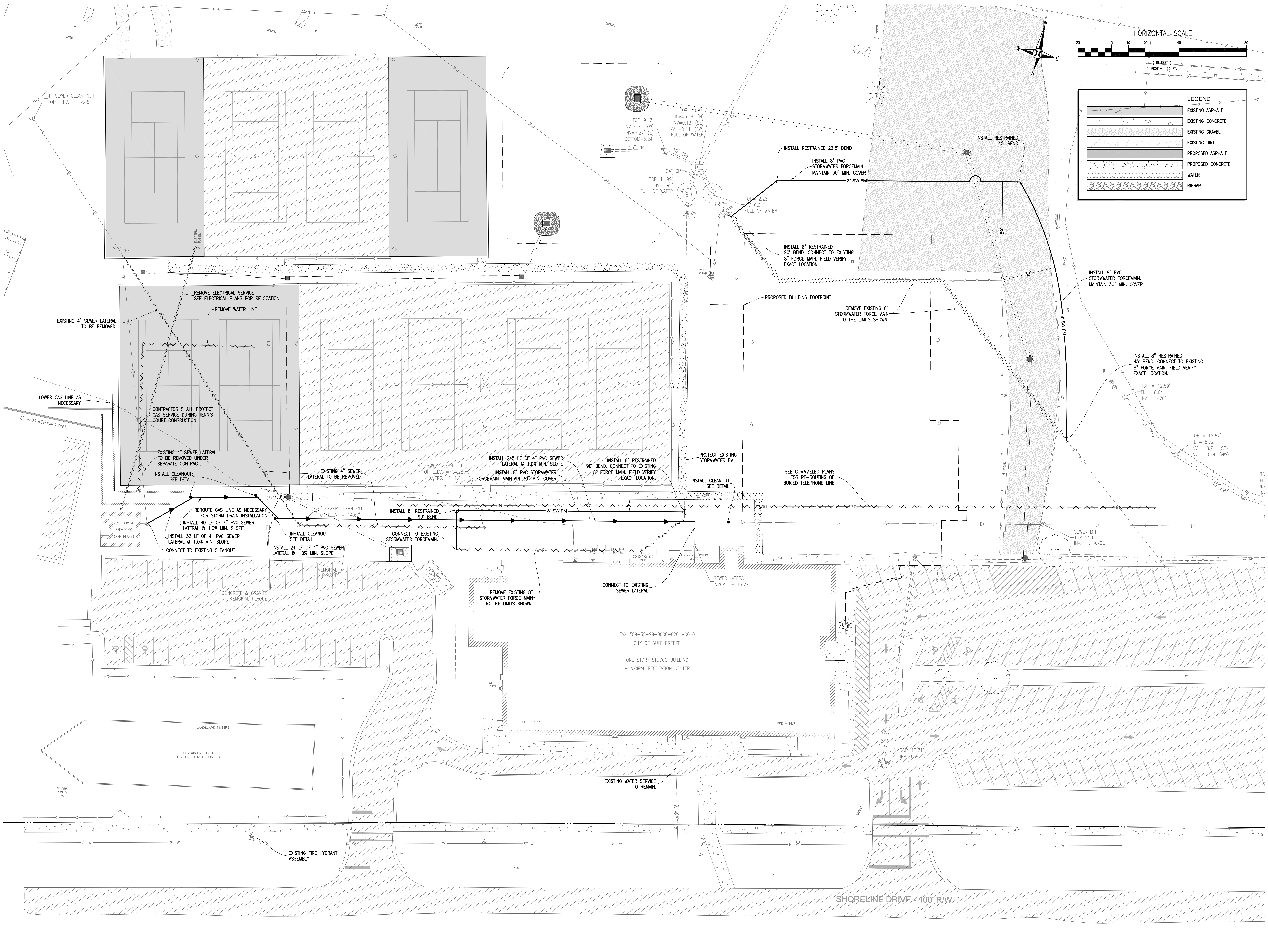
EB 00009657

PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 1 GRADING & DRAINAGE PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C1.2



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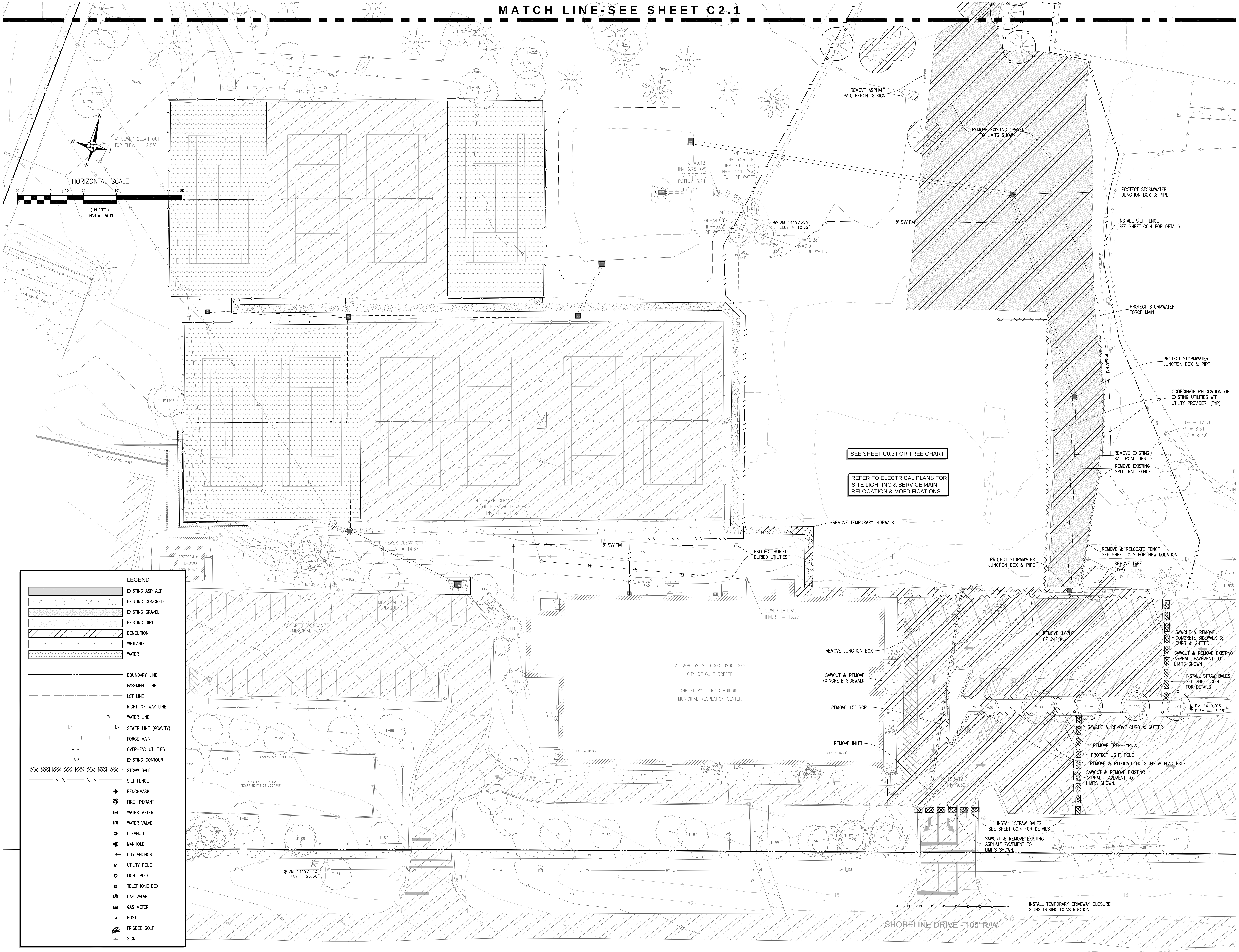
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 1 UTILITY PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C1.3



SEE SHEET C0.3 FOR TREE CHART

REFER TO ELECTRICAL PLANS FOR SITE LIGHTING & SERVICE MAIN RELOCATION & MOFDIFICATIONS

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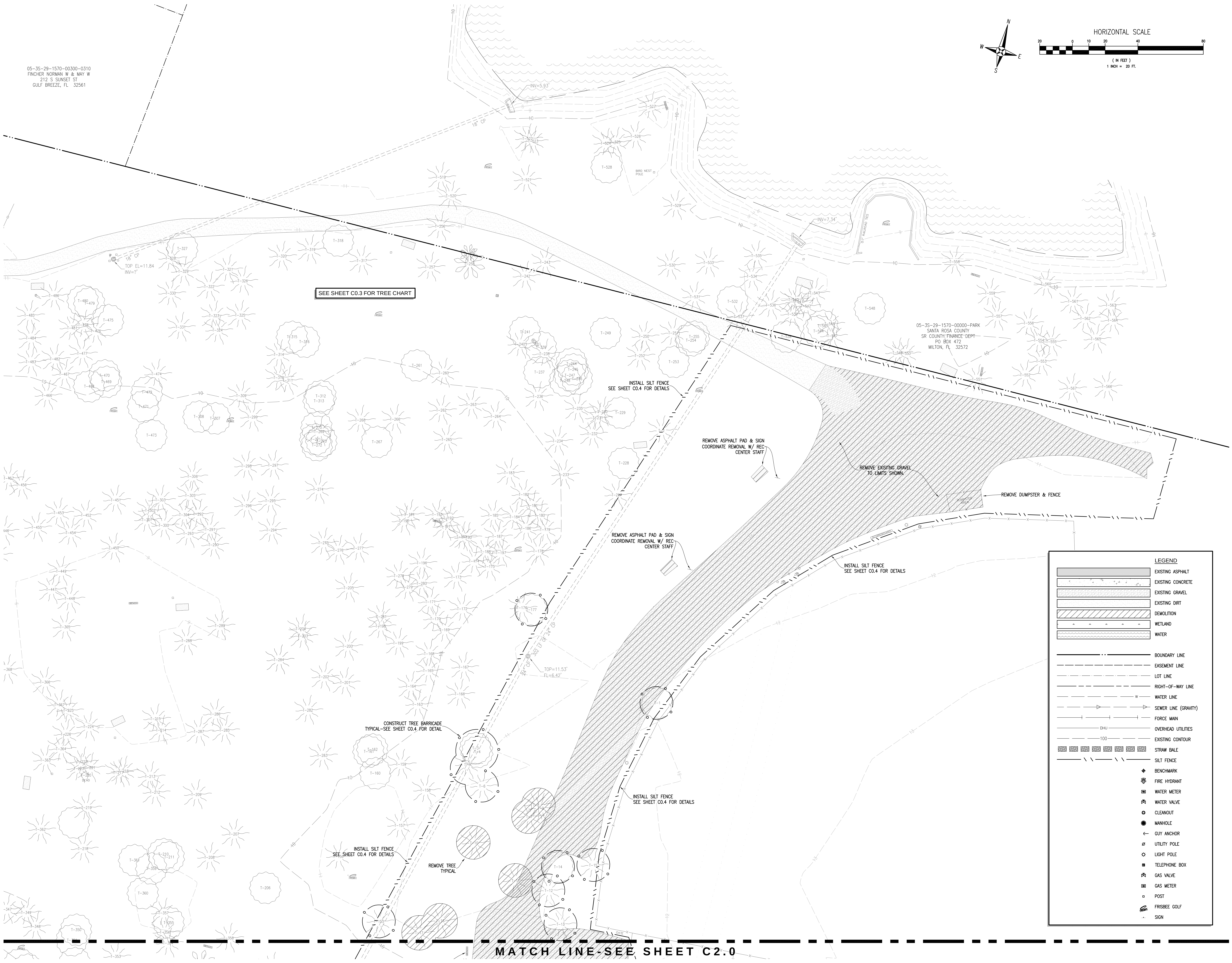
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 2 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.0



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Telephone 850.438.0400 Fax 850.438.0448
EB 00009657

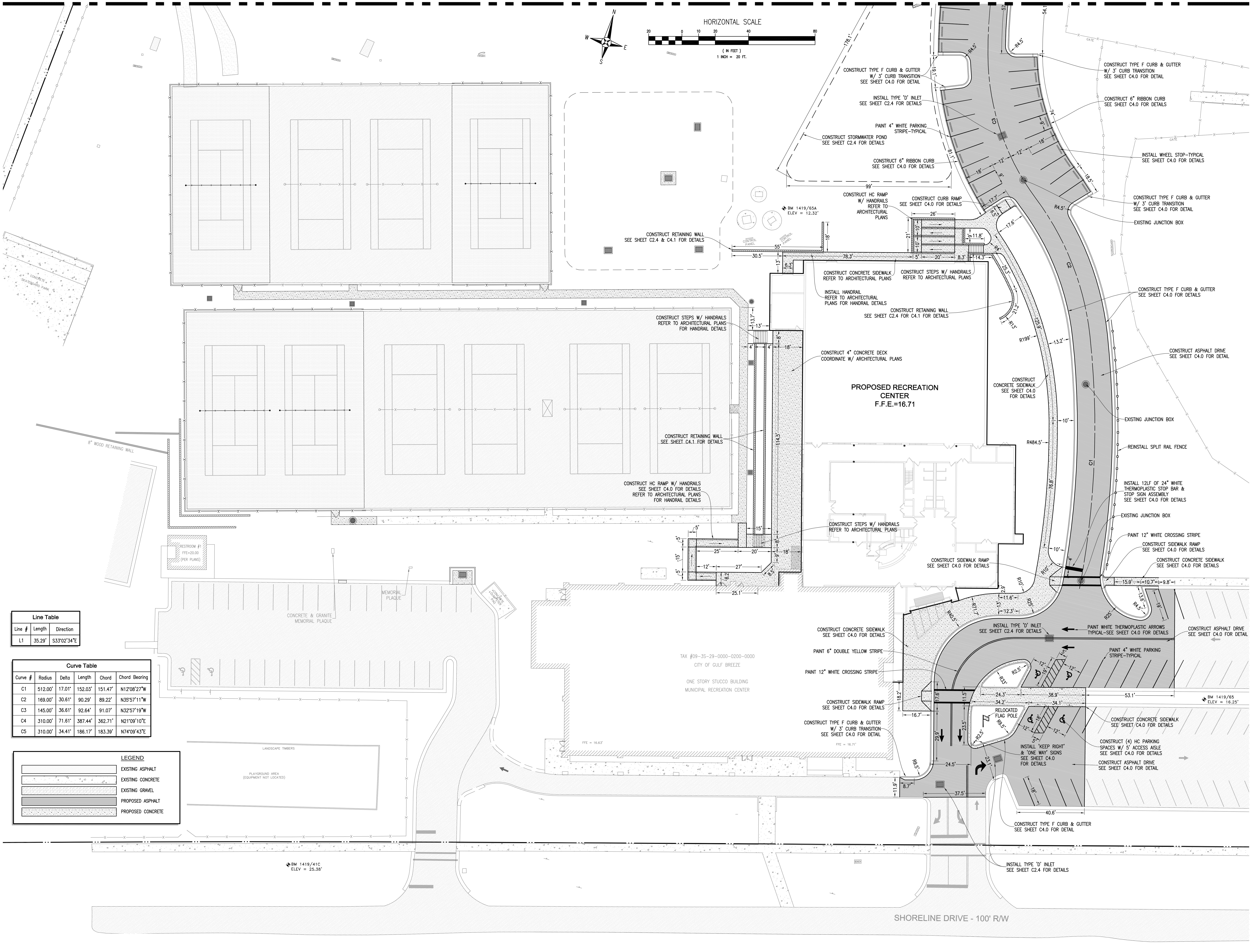
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 2 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.1

MATCH LINE-SEE SHEET C2.3



Line Table

Line #	Length	Direction
L1	35.29'	S33°02'34"E

Curve Table

Curve #	Radius	Delta	Length	Chord	Chord Bearing
C1	512.00'	17.01°	152.03'	151.47'	N12°08'27"W
C2	169.00'	30.61°	90.29'	89.22'	N35°57'11"W
C3	145.00'	36.61°	92.64'	91.07'	N32°57'19"W
C4	310.00'	71.61°	387.44'	362.71'	N21°09'10"E
C5	310.00'	34.41°	186.17'	183.39'	N74°09'43"E

LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- PROPOSED ASPHALT
- PROPOSED CONCRETE

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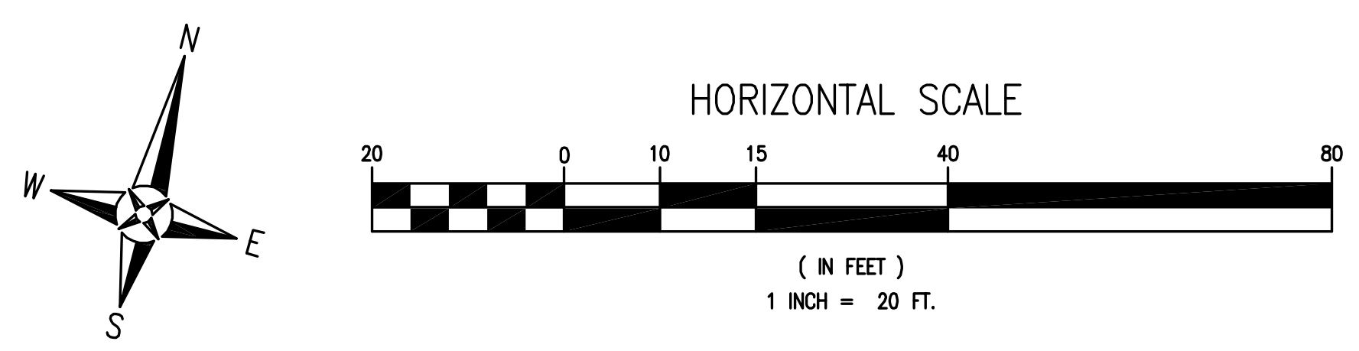
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 2 SITE LAYOUT & DIMENSION PLAN

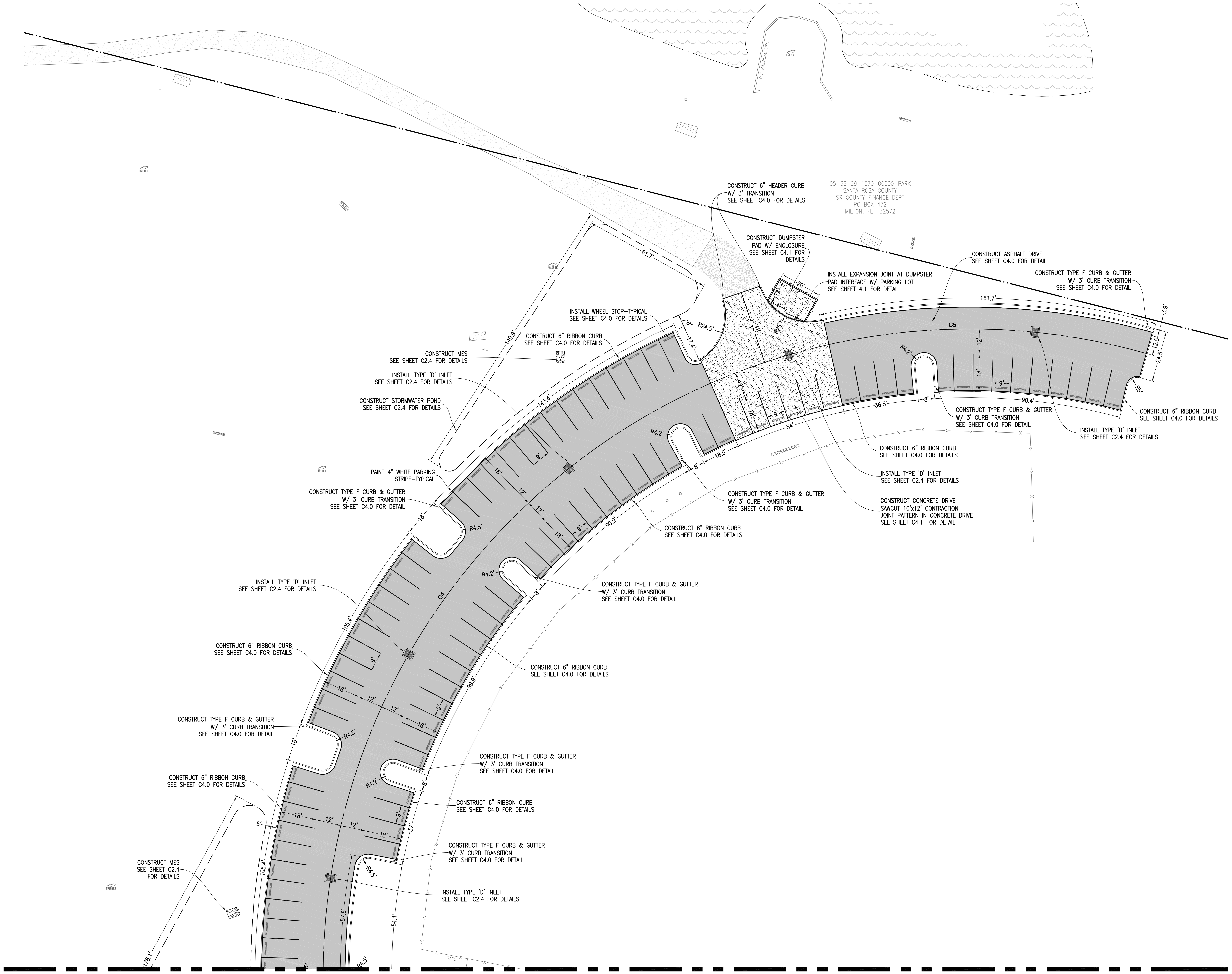
PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.2



LEGEND

- ▭ EXISTING ASPHALT
- ▭ EXISTING CONCRETE
- ▨ EXISTING GRAVEL
- ▩ PROPOSED ASPHALT
- ▨ PROPOSED CONCRETE



MATCH LINE-SEE SHEET C2.2

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PHASE 2 SITE LAYOUT & DIMENSION PLAN

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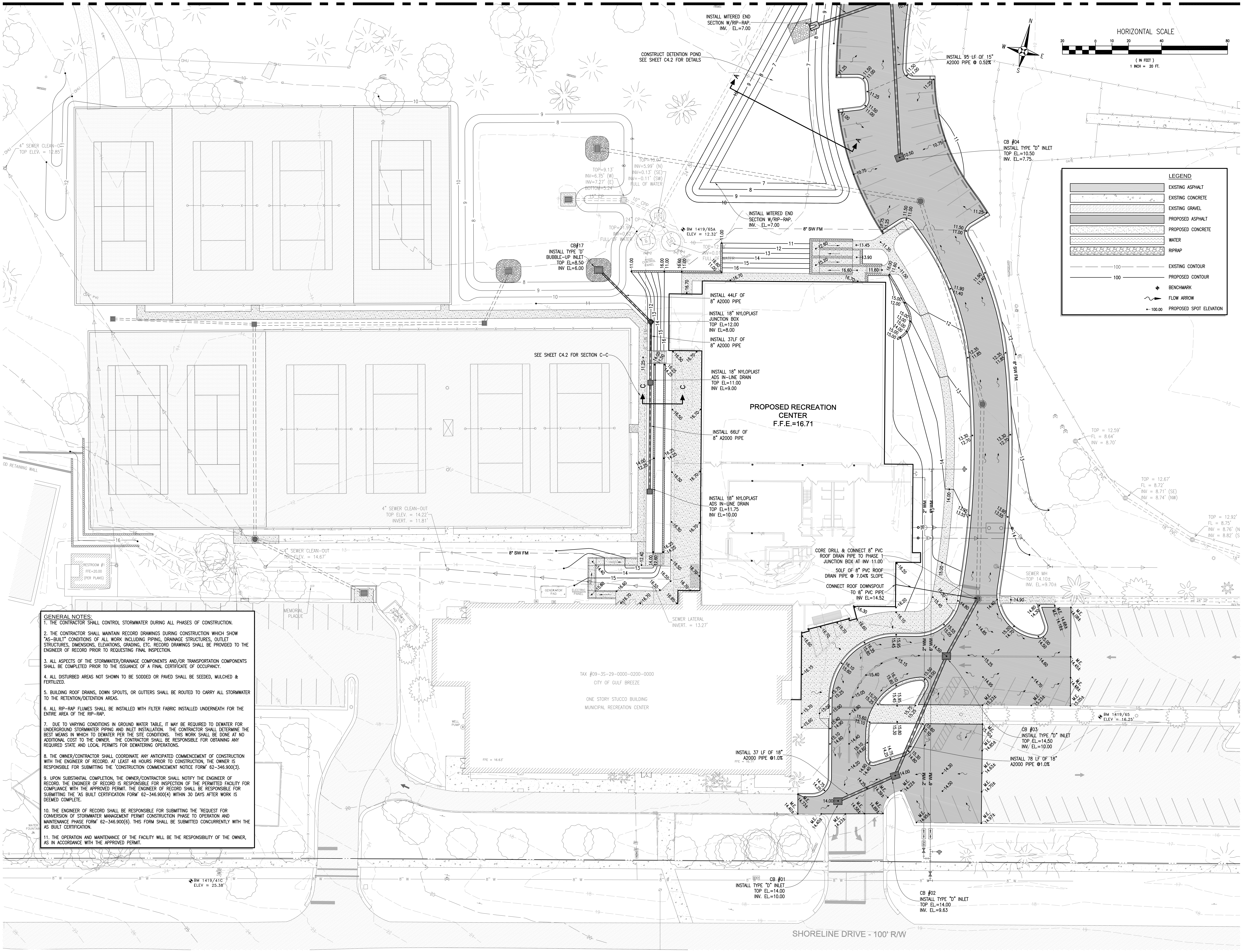
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.3

MATCH LINE-SEE SHEET C2.5



GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION.

2. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.

3. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.

4. ALL DISTURBED AREAS NOT SHOWN TO BE SODDED OR PAVED SHALL BE SEEDED, MULCHED & FERTILIZED.

5. BUILDING ROOF DRAINS, DOWN SPOUTS, OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORMWATER TO THE RETENTION/DETENTION AREAS.

6. ALL RIP-RAP FLUMES SHALL BE INSTALLED WITH FILTER FABRIC INSTALLED UNDERNEATH FOR THE ENTIRE AREA OF THE RIP-RAP.

7. DUE TO VARYING CONDITIONS IN GROUND WATER TABLE, IT MAY BE REQUIRED TO DEWATER FOR UNDERGROUND STORMWATER PIPING AND INLET INSTALLATION. THE CONTRACTOR SHALL DETERMINE THE BEST MEANS IN WHICH TO DEWATER PER THE SITE CONDITIONS. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED STATE AND LOCAL PERMITS FOR DEWATERING OPERATIONS.

8. THE OWNER/CONTRACTOR SHALL COORDINATE ANY ANTICIPATED COMMENCEMENT OF CONSTRUCTION WITH THE ENGINEER OF RECORD. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE OWNER IS RESPONSIBLE FOR SUBMITTING THE 'CONSTRUCTION COMMENCEMENT NOTICE FORM' 62-346.900(3).

9. UPON SUBSTANTIAL COMPLETION, THE OWNER/CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD. THE ENGINEER OF RECORD IS RESPONSIBLE FOR INSPECTION OF THE PERMITTED FACILITY FOR COMPLIANCE WITH THE APPROVED PERMIT. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'AS BUILT CERTIFICATION FORM' 62-346.900(4) WITHIN 30 DAYS AFTER WORK IS DEEMED COMPLETE.

10. THE ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR SUBMITTING THE 'REQUEST FOR CONVERSION OF STORMWATER MANAGEMENT PERMIT CONSTRUCTION PHASE TO OPERATION AND MAINTENANCE PHASE FORM' 62-346.900(6). THIS FORM SHALL BE SUBMITTED CONCURRENTLY WITH THE AS BUILT CERTIFICATION.

11. THE OPERATION AND MAINTENANCE OF THE FACILITY WILL BE THE RESPONSIBILITY OF THE OWNER, AS IN ACCORDANCE WITH THE APPROVED PERMIT.

LEGEND

▨	EXISTING ASPHALT
▨	EXISTING CONCRETE
▨	EXISTING GRAVEL
▨	PROPOSED ASPHALT
▨	PROPOSED CONCRETE
≈	WATER
▨	RIPRAP
— — 100 — —	EXISTING CONTOUR
—— 100 ——	PROPOSED CONTOUR
⊕	BENCHMARK
→	FLOW ARROW
•— 100.00	PROPOSED SPOT ELEVATION

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PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 2 GRADING & DRAINAGE PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
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SHEET
C2.4

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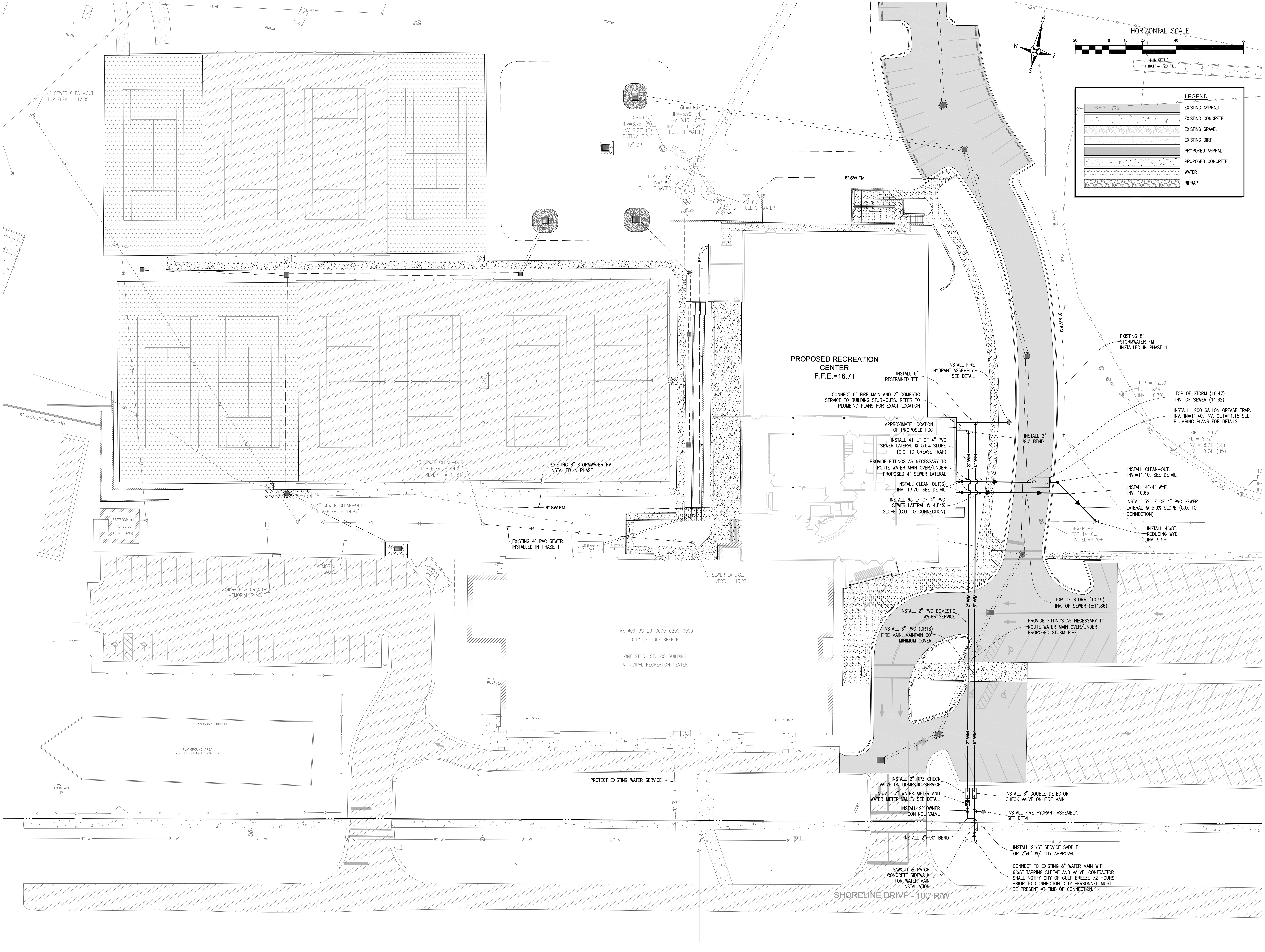
PHASE 2 GRADING & DRAINAGE PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.5



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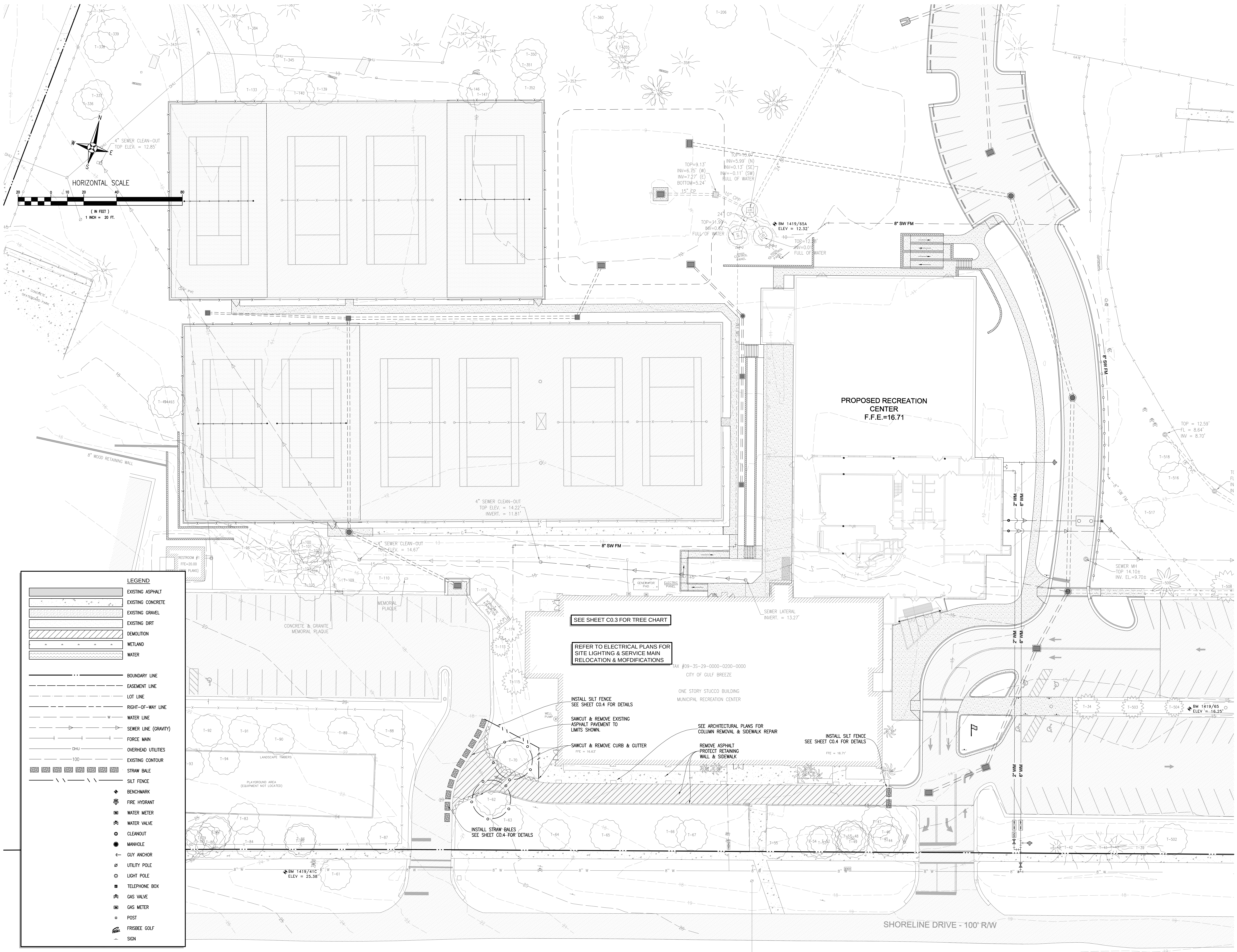
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 2 UTILITY PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C2.6



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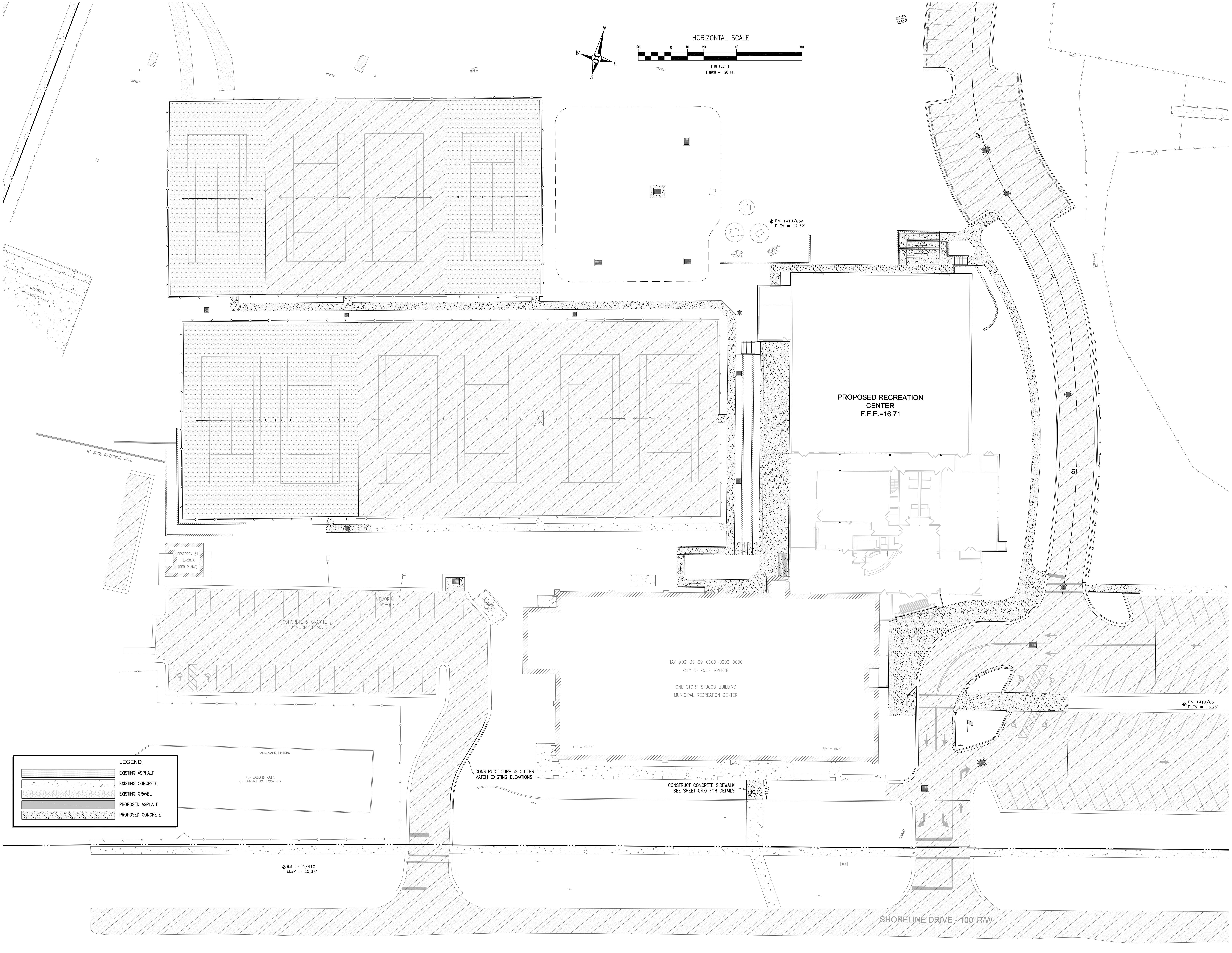
Gulf Breeze, Fl 32561

SHEET TITLE:
PHASE 3 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C3.0



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SHEET TITLE:
PHASE 3 SITE LAYOUT & DIMENSION PLAN

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C3.1

NOTES:
1. TOP PORTION OF FTP 25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.

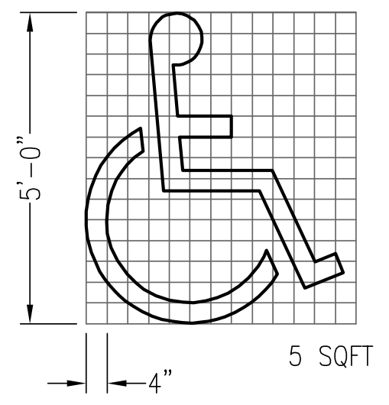
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

3. FTP 25 MAY BE FABRICATED ON ONE PANEL OR TWO.

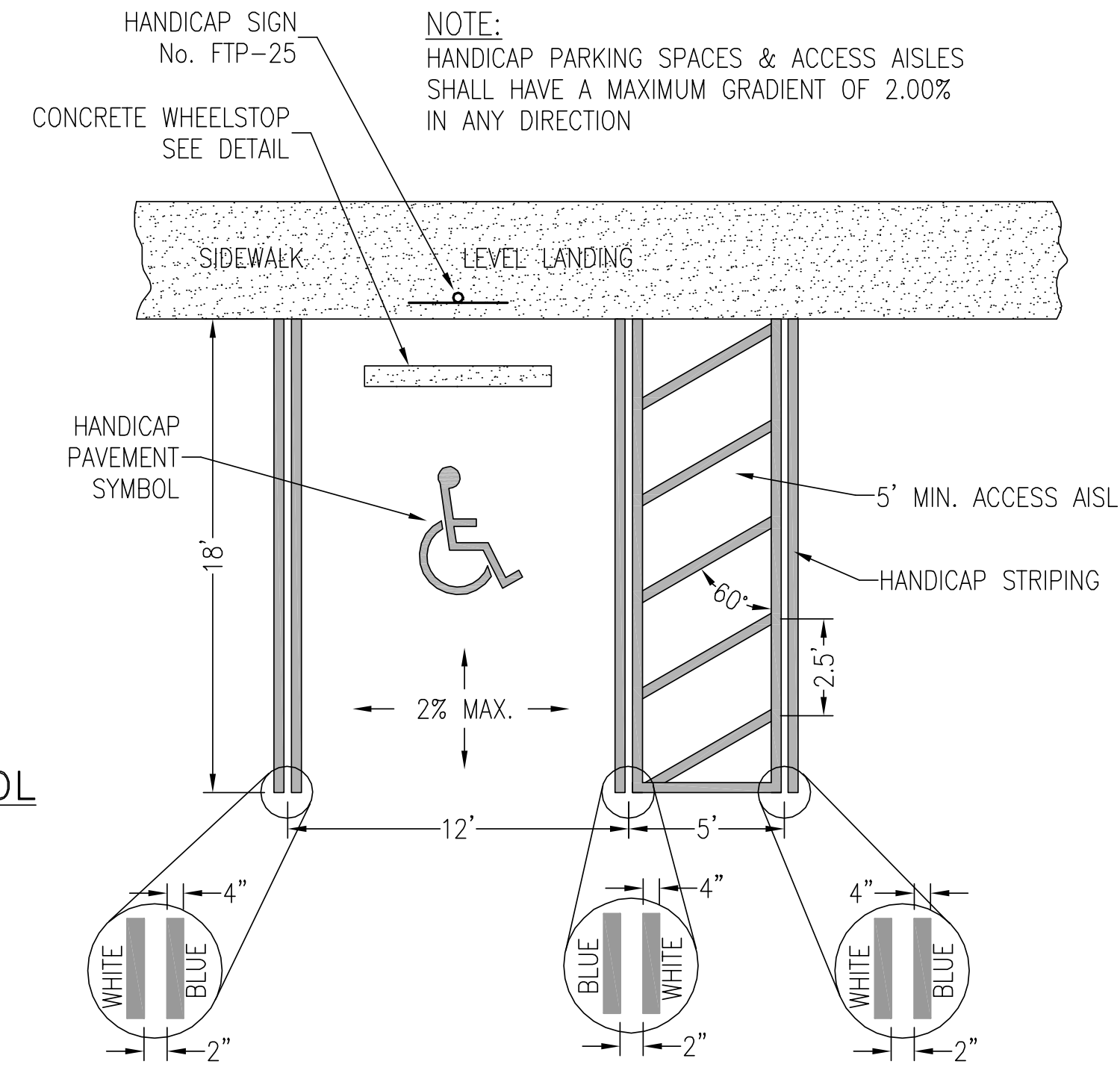
4. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT. (7' FROM PAVEMENT TO BOTTOM OF SIGN).

5. SIGN COLUMN TO BE AS PER F.D.O.T. STANDARDS, INDEX NO'S 11860 AND 11865.

SIGN USED AS PER FLORIDA STATUTES
FTP 25 Per FS 316.1955, FS 316.1956



HANDICAP PAVEMENT SYMBOL

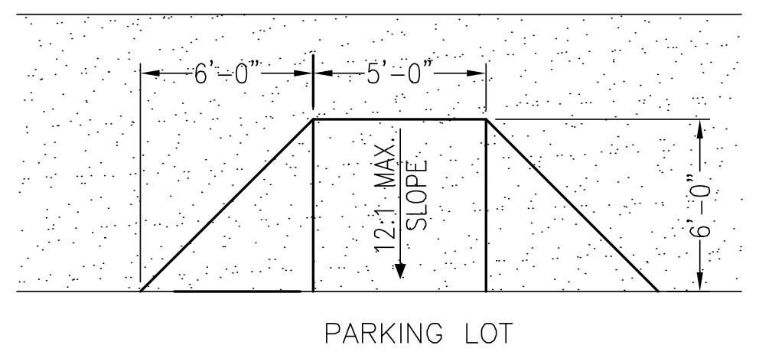


NOTE:
HANDICAP PARKING SPACES & ACCESS AISLES SHALL HAVE A MAXIMUM GRADIENT OF 2.00% IN ANY DIRECTION

HANDICAP PARKING STALL

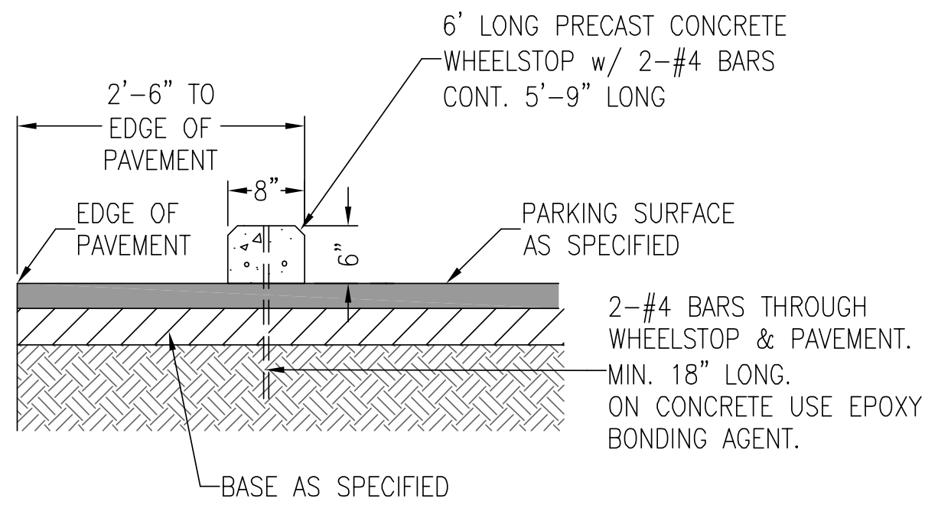
HANDICAP PARKING STALL DETAILS

N.T.S.



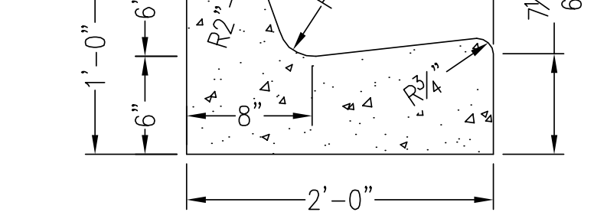
SIDEWALK RAMP DETAIL

N.T.S.



WHEEL STOP DETAIL

N.T.S.



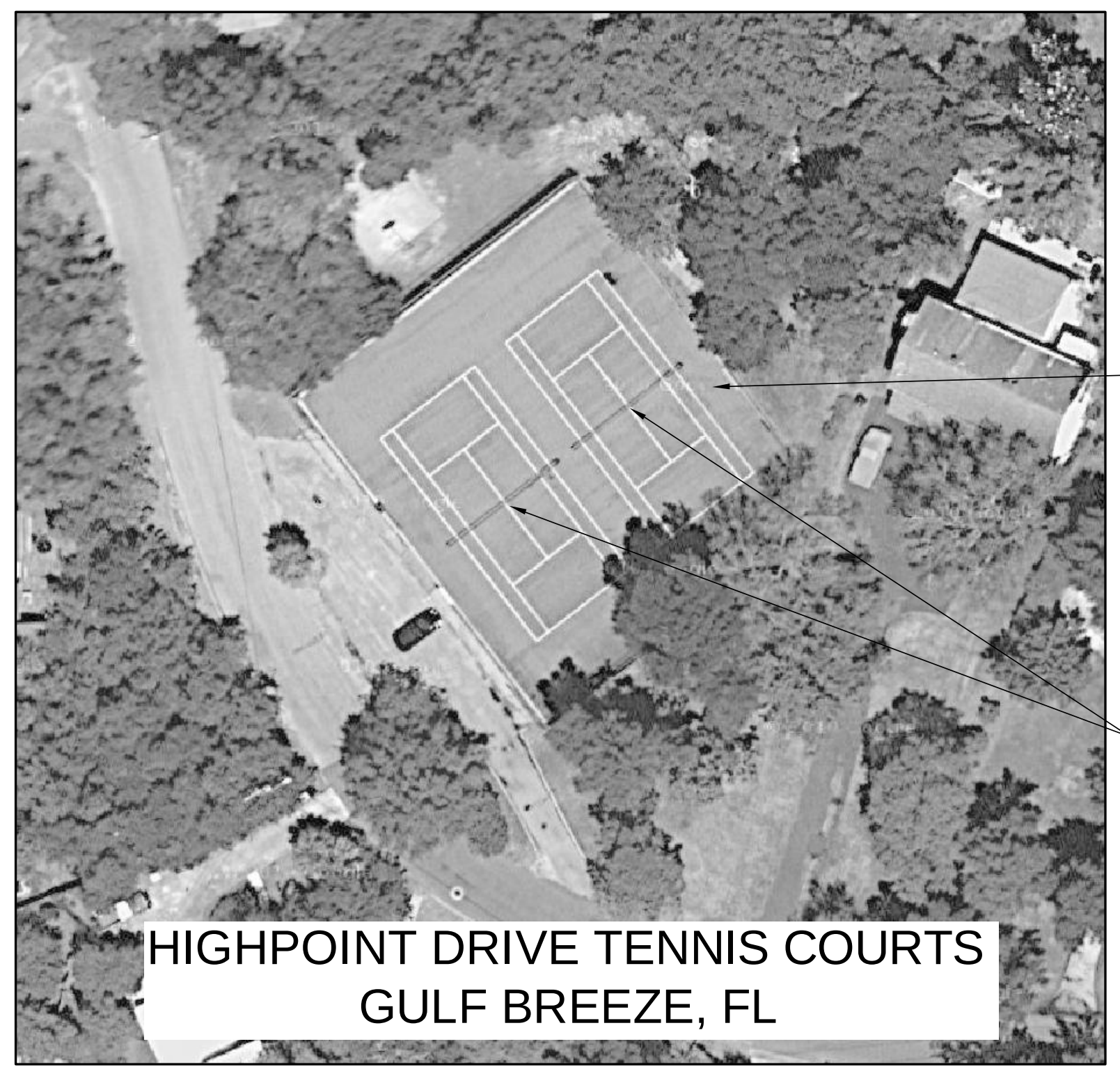
NOTES:
1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

2. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

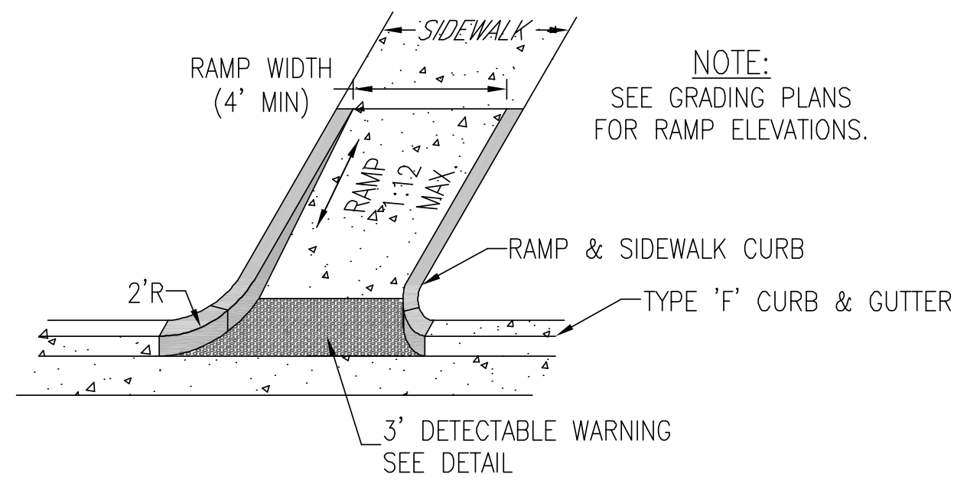
3. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

TYPE 'F' CURB & GUTTER

N.T.S.



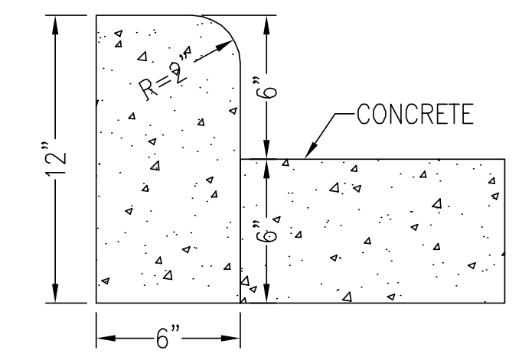
HIGHPOINT DRIVE TENNIS COURTS
GULF BREEZE, FL



NOTE:
SEE GRADING PLANS FOR RAMP ELEVATIONS.

PEDESTRIAN ACCESS RAMP

N.T.S.

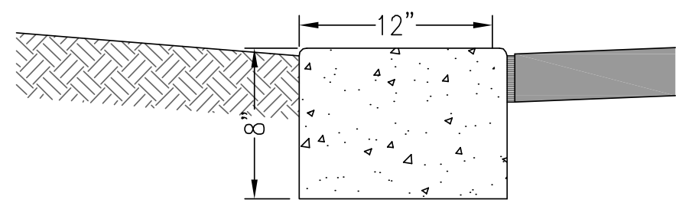


NOTES:
1. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

2. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

6" RAISED CURB

N.T.S.

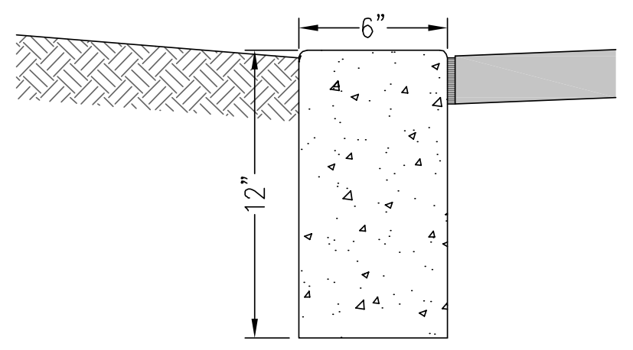


NOTES:
1. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

2. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

12" RIBBON CURB

N.T.S.

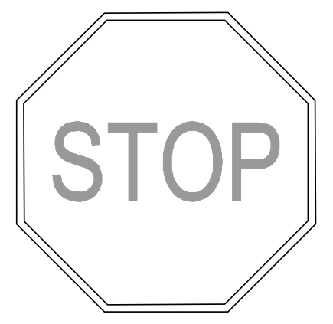


NOTES:
1. ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".

2. EXPANSION JOINTS ARE TO BE 30' ON CENTER. TYPICAL FOR ALL CURB.

6" RIBBON CURB

N.T.S.

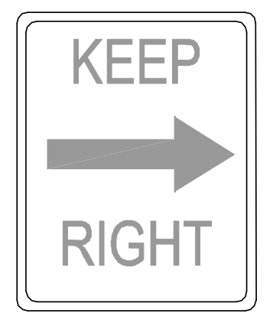


FDOT STANDARD
R1-1
2'-0" x 2'-0"

N.T.S.

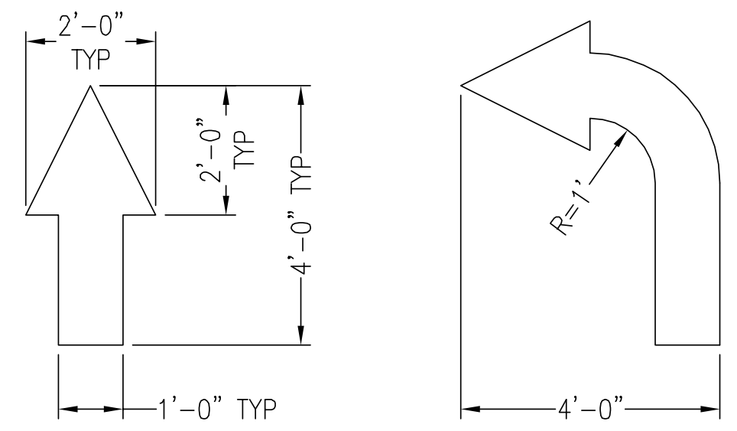
R6-2
1'-6" x 2'-0"

N.T.S.



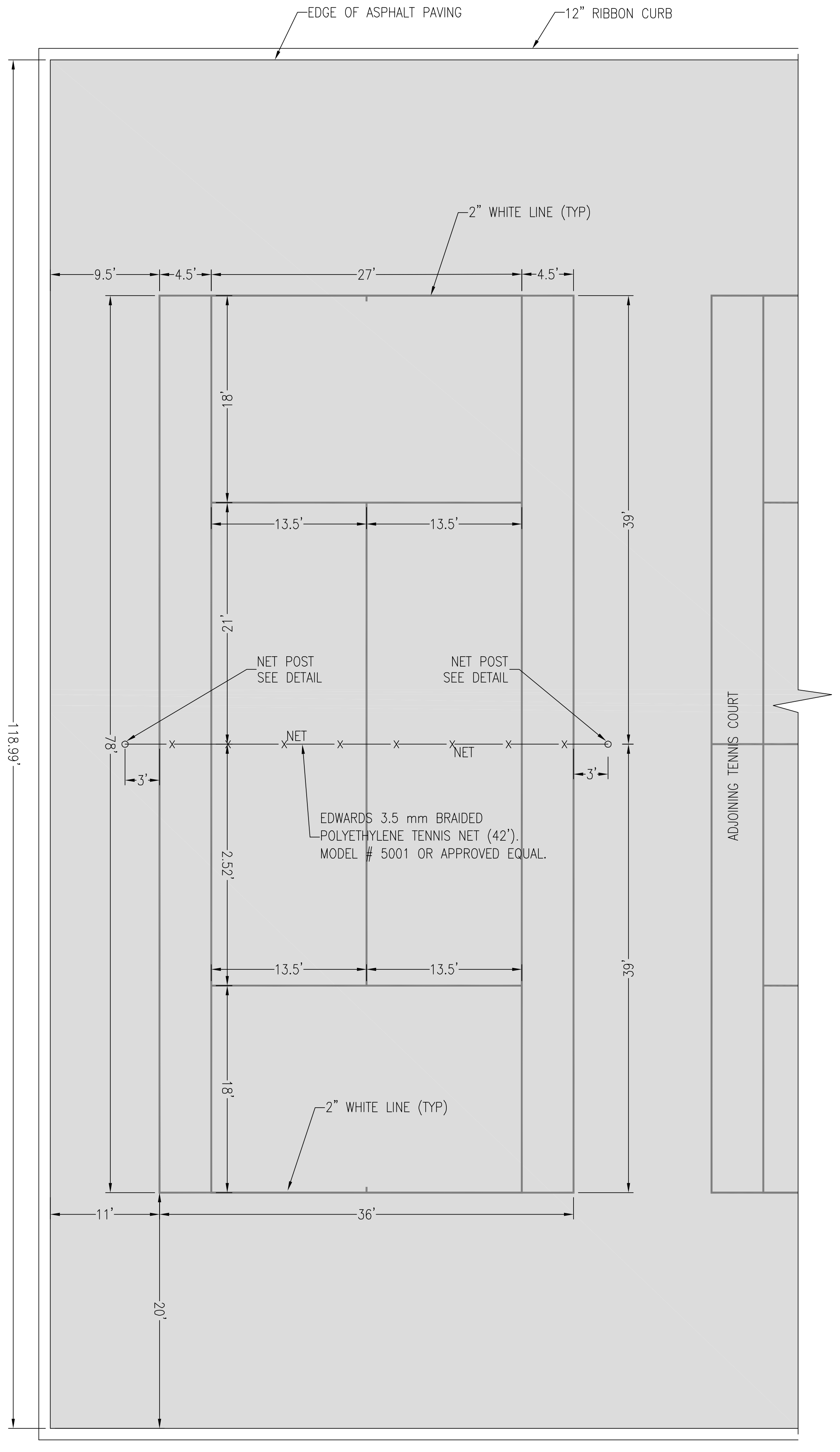
R4-7a
2'-0" x 2'-6"

N.T.S.

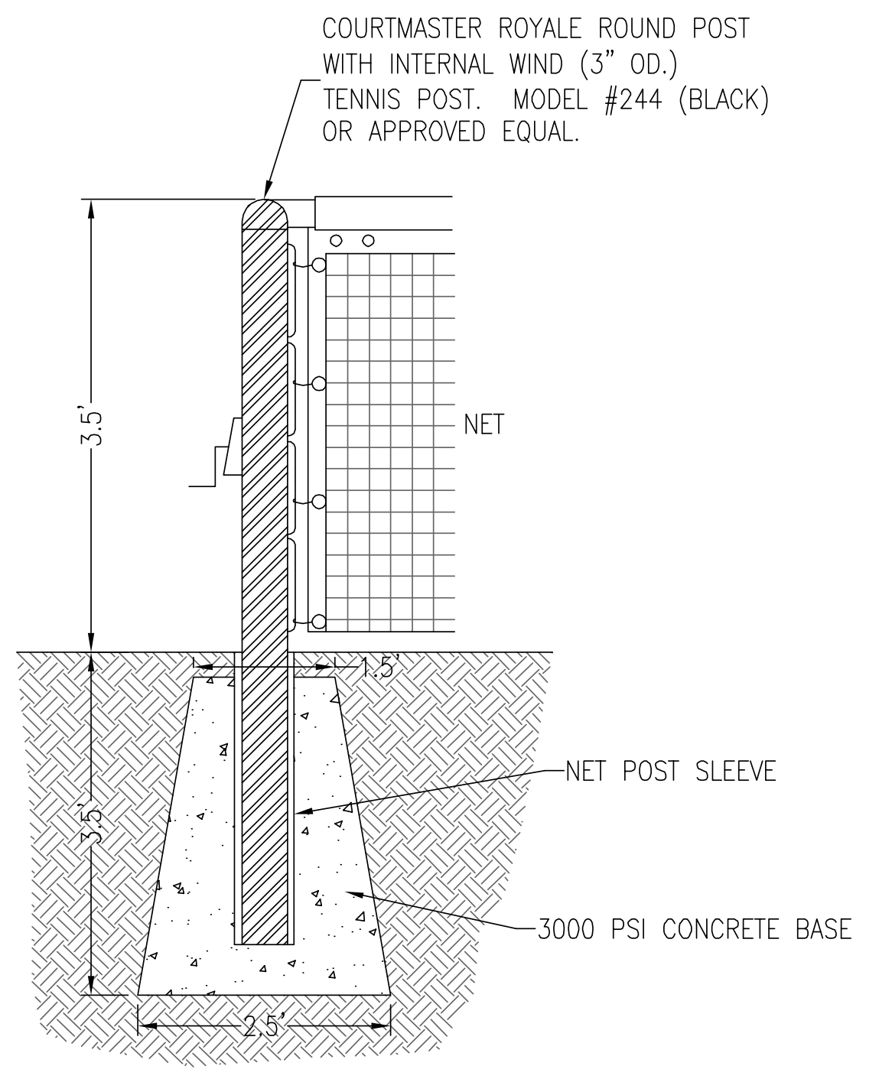


PAVEMENT ARROW DETAIL

N.T.S.

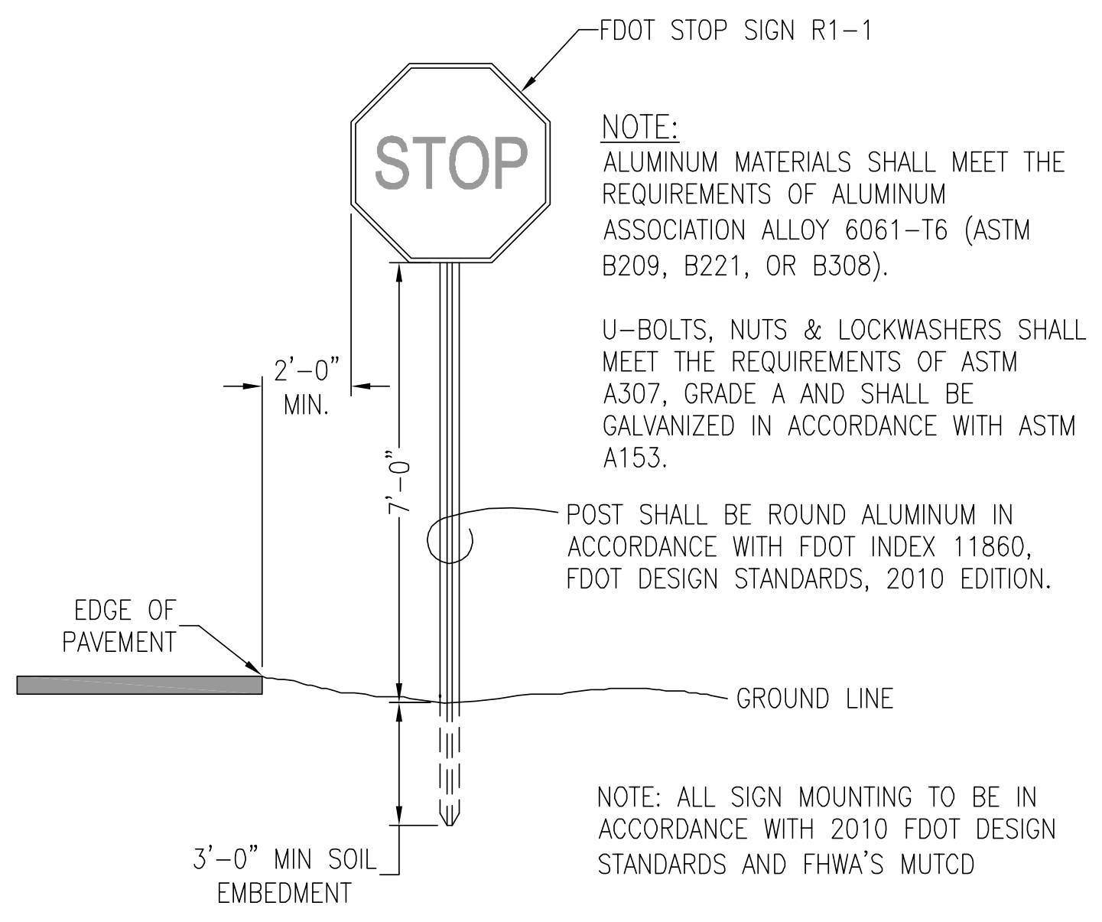


TENNIS COURT DETAIL



TENNIS POST DETAIL

N.T.S.



NOTE:
ALUMINUM MATERIALS SHALL MEET THE REQUIREMENTS OF ALUMINUM ASSOCIATION ALLOY 6061-T6 (ASTM B209, B221, OR B308).

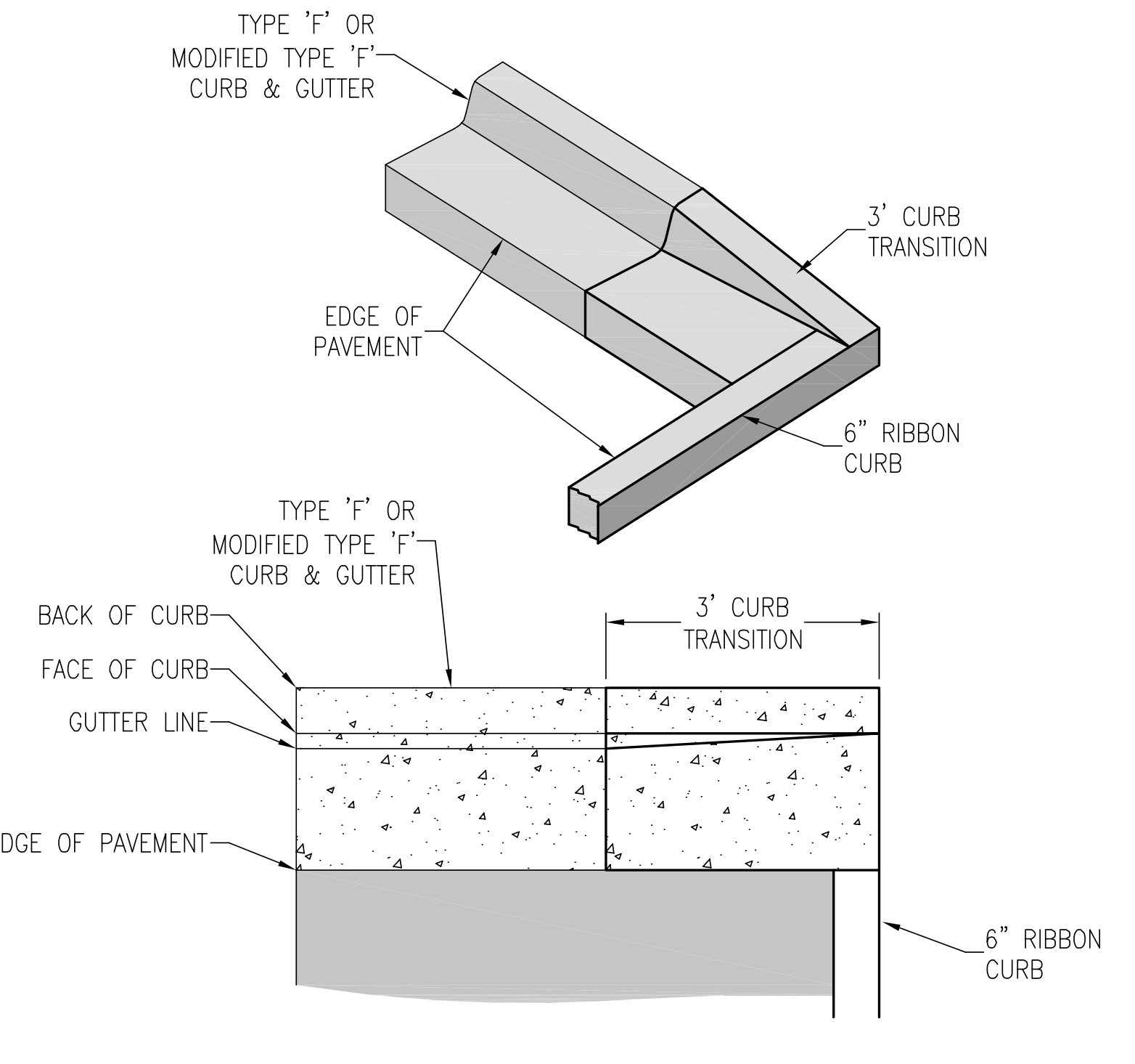
U-BOLTS, NUTS & LOCKWASHERS SHALL MEET THE REQUIREMENTS OF ASTM A307, GRADE A AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

POST SHALL BE ROUND ALUMINUM IN ACCORDANCE WITH FDOT INDEX 11860, FDOT DESIGN STANDARDS, 2010 EDITION.

NOTE: ALL SIGN MOUNTING TO BE IN ACCORDANCE WITH 2010 FDOT DESIGN STANDARDS AND FHWA'S MUTCD

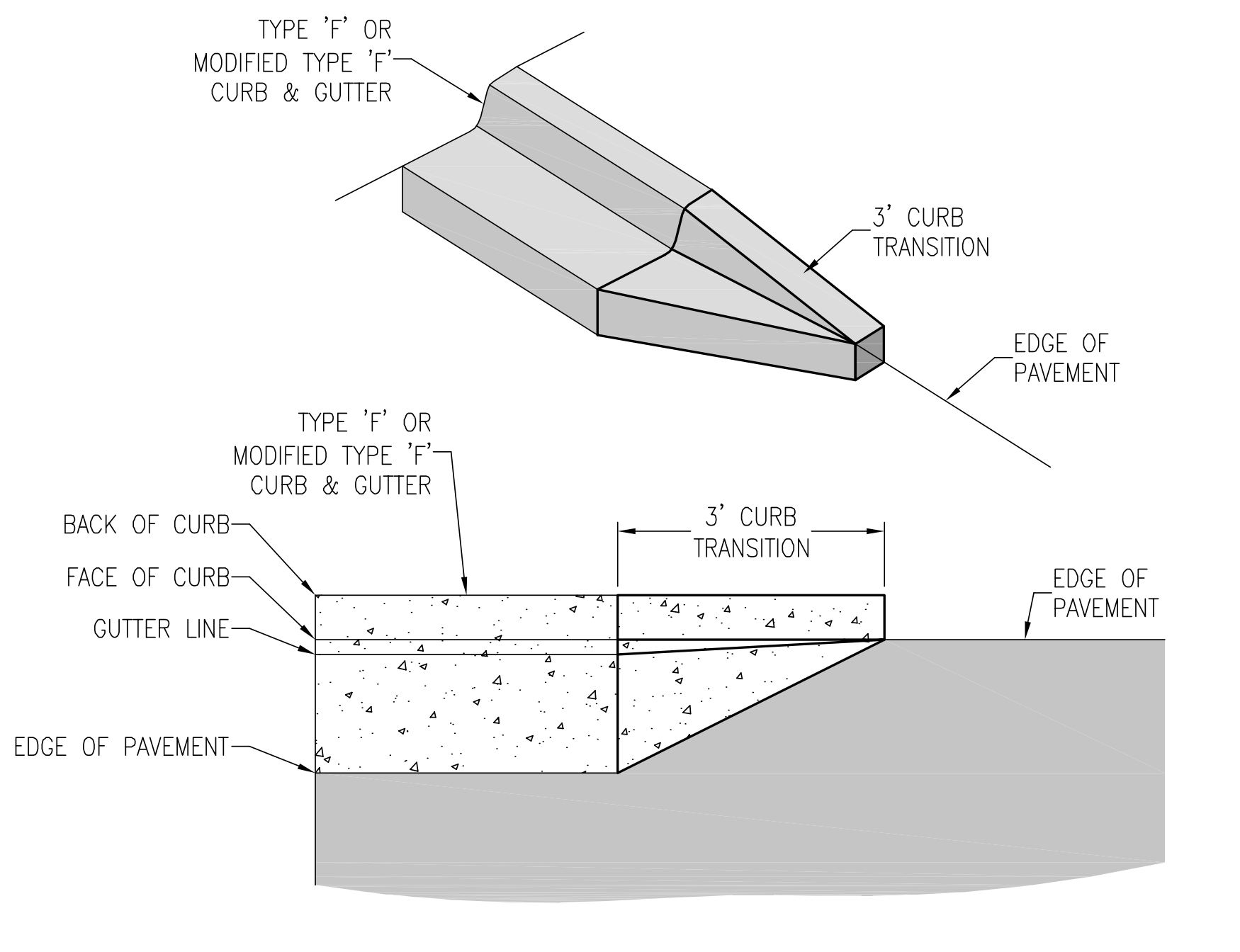
SIGN MOUNTING DETAIL

N.T.S.



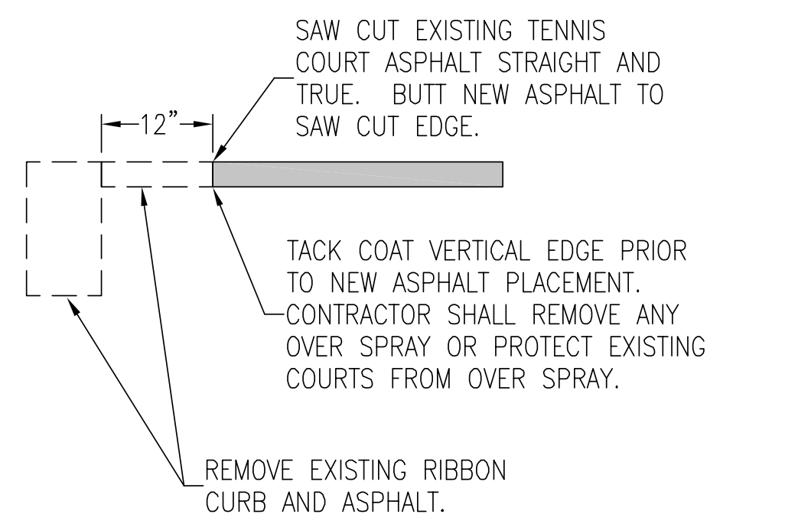
CURB TRANSITION TYPE 'F' OR MODIFIED TYPE 'F'

N.T.S.



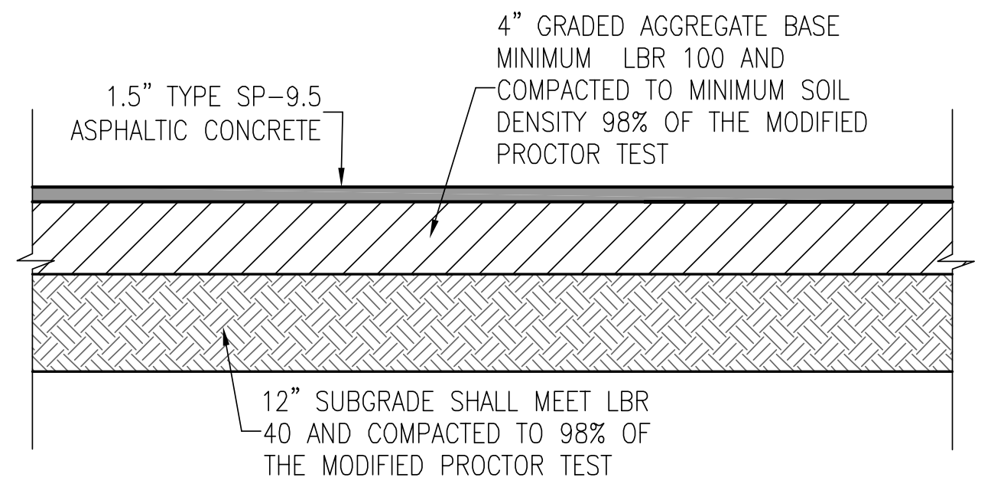
CURB TRANSITION TYPE 'F' OR MODIFIED TYPE 'F' TO ASPHALT

N.T.S.



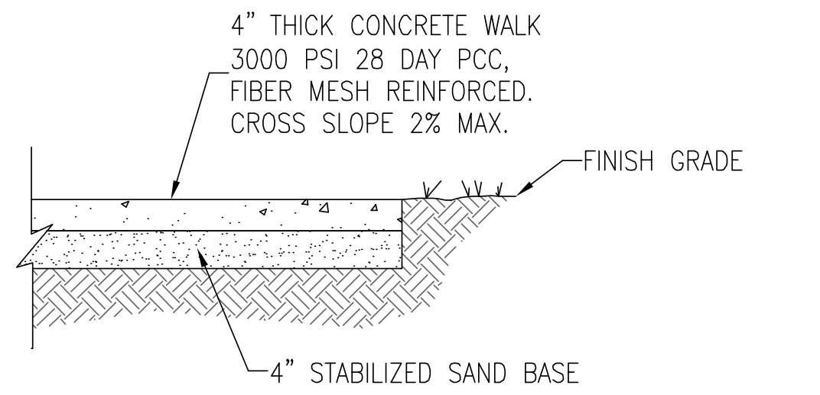
SAW CUT DETAIL AT TENNIS COURTS

N.T.S.



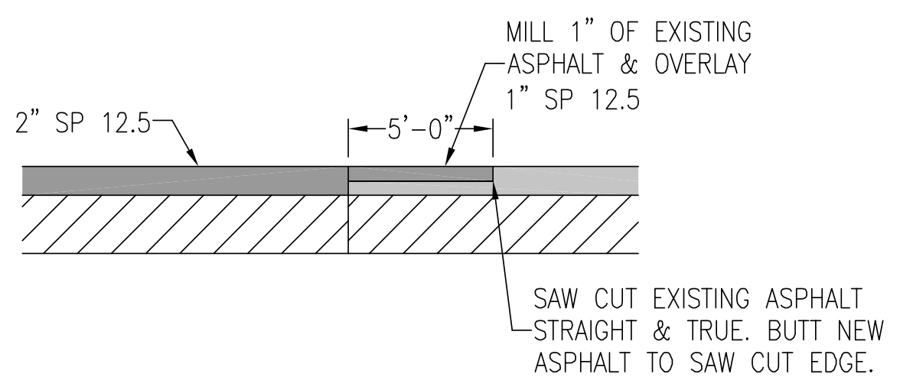
TENNIS COURT ASPHALT PAVEMENT DETAIL

N.T.S.



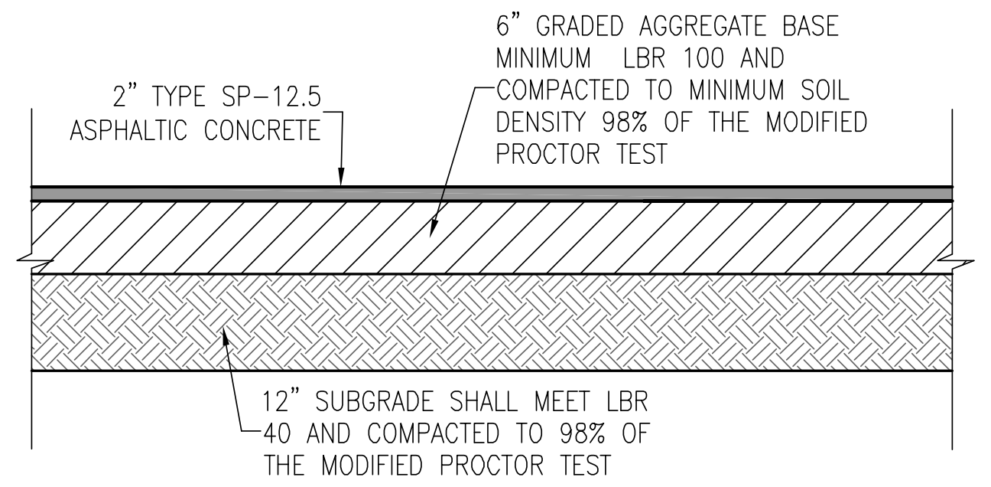
SIDEWALK DETAIL

N.T.S.



SAW CUT DETAIL AT PARKING LOT

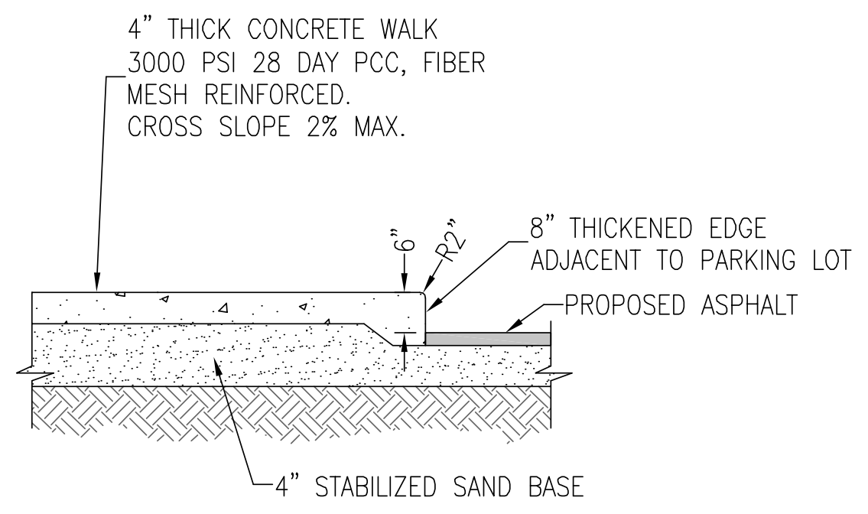
N.T.S.



NOTE: WHERE NEW ASPHALT IS PROPOSED TO ABUT EXISTING ASPHALT, MILL A 5' STRIP OF EXISTING ASPHALT AT THE JOINT 1" DEEP & OVERLAY

ON-SITE ASPHALT PAVEMENT DETAIL

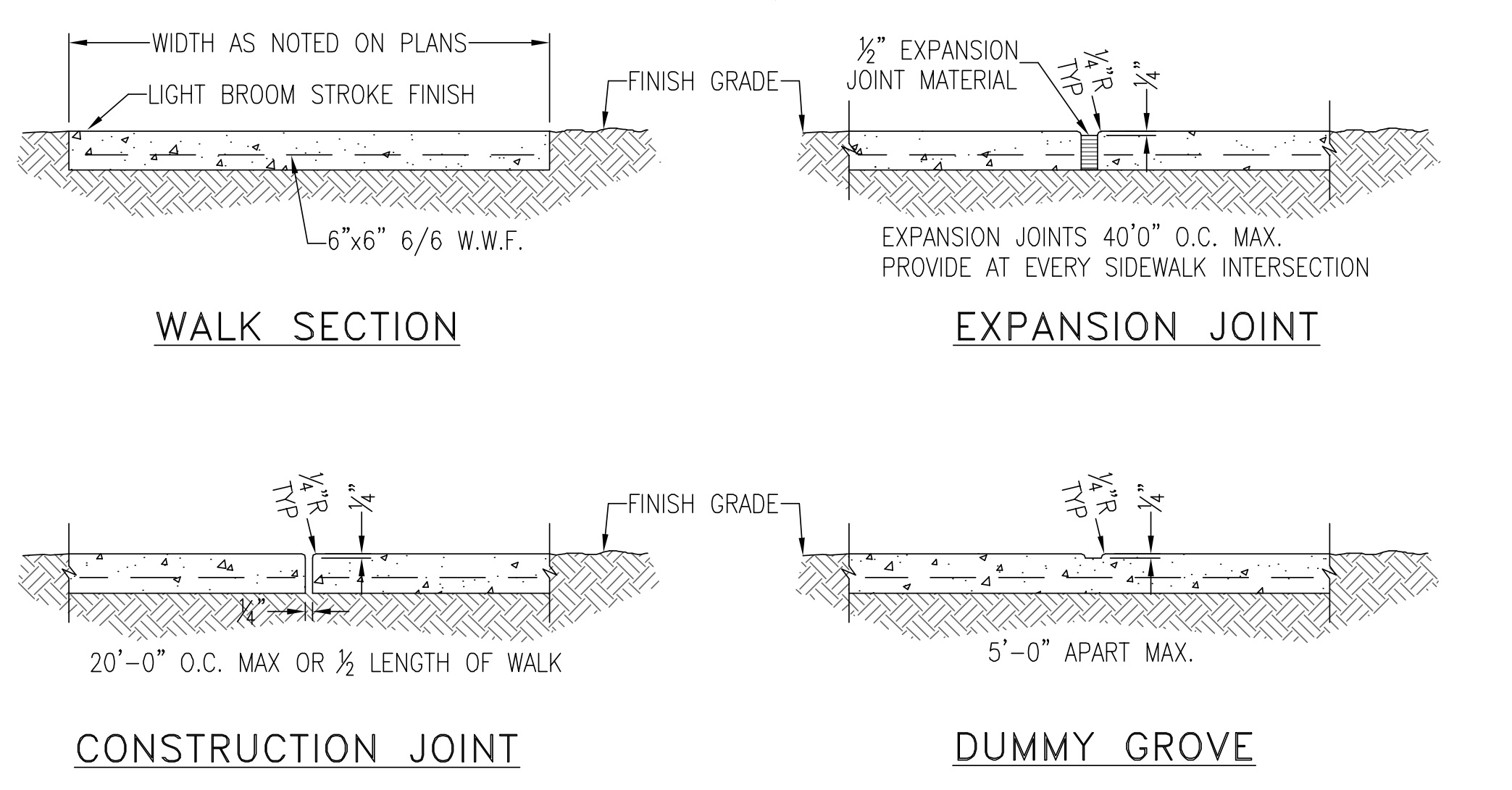
N.T.S.



SIDEWALK DETAIL ADJACENT TO PARKING LOT

N.T.S.

NOTE:
WALK SLOPE VARIES, SEE PLAN



WALK SECTION

EXPANSION JOINT

CONSTRUCTION JOINT

DUMMY GROVE

SIDEWALK DETAILS

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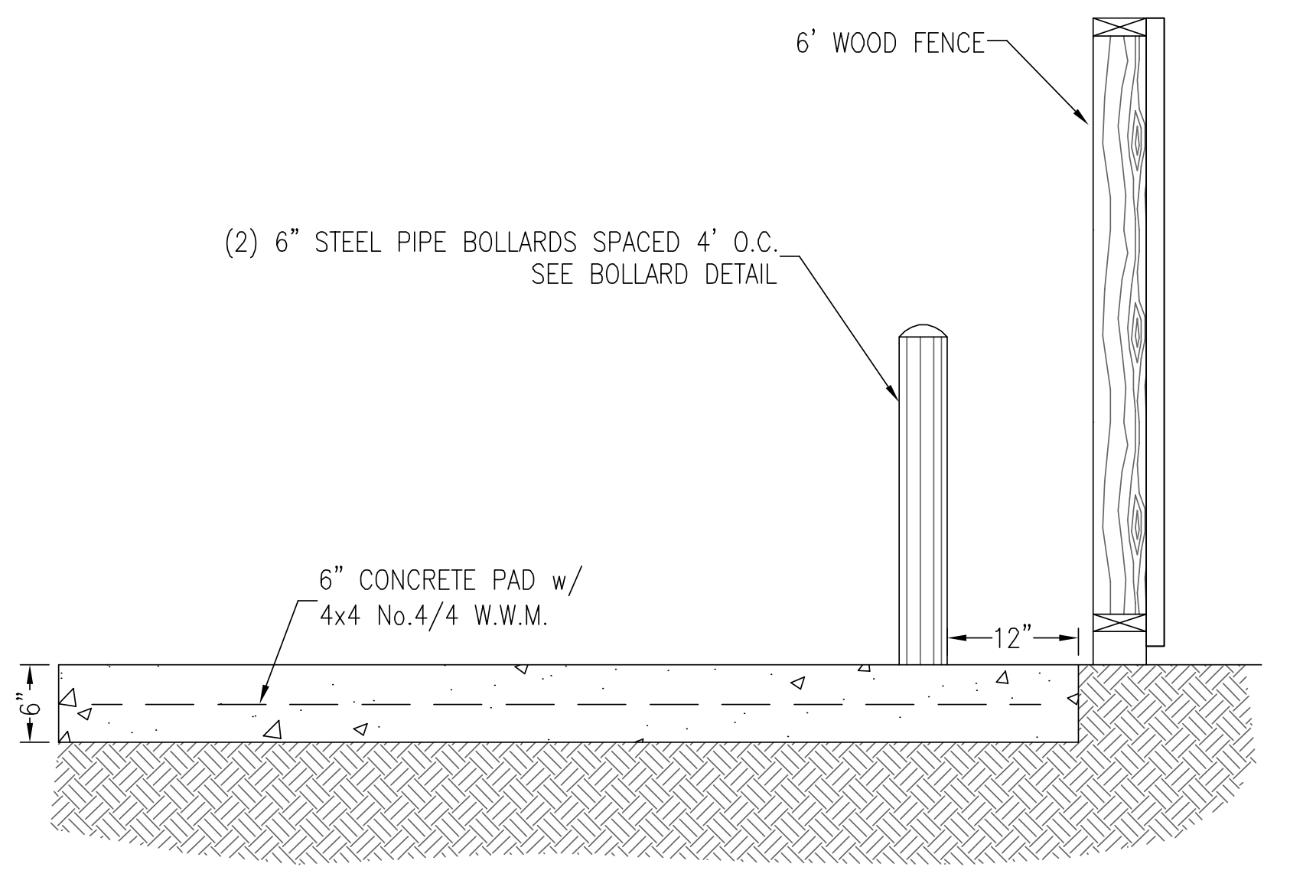
PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

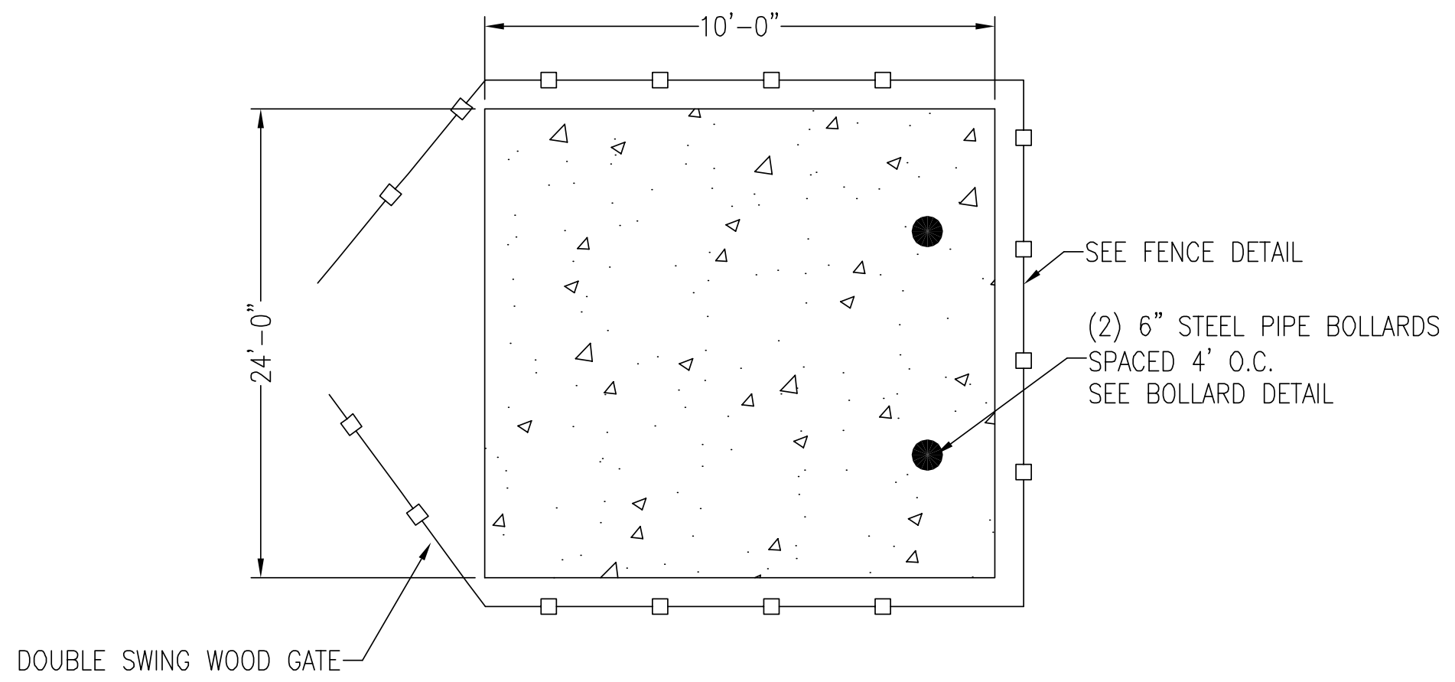
SHEET TITLE:
SITE DETAILS

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C4.0



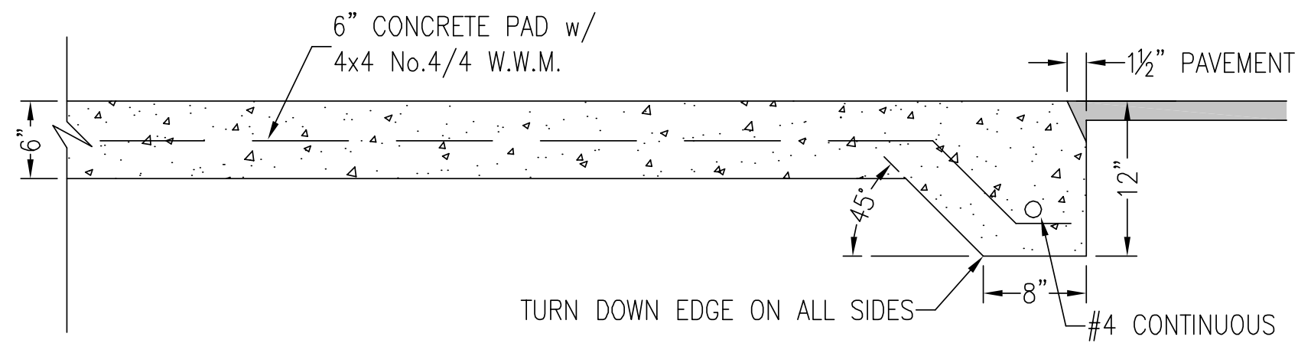
DUMPSTER PAD SECTION



DUMPSTER PAD PLAN VIEW

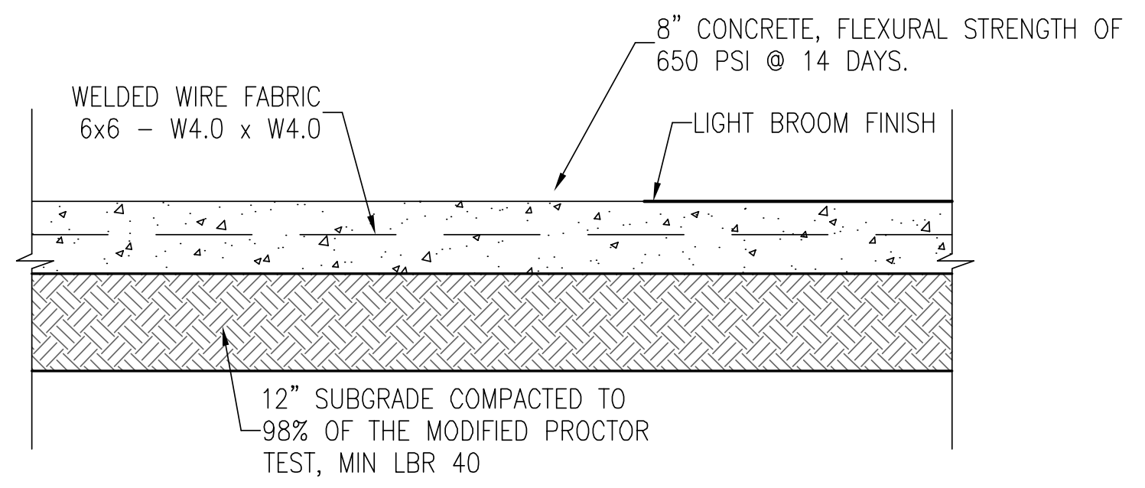
DUMPSTER PAD DETAIL

N.T.S.



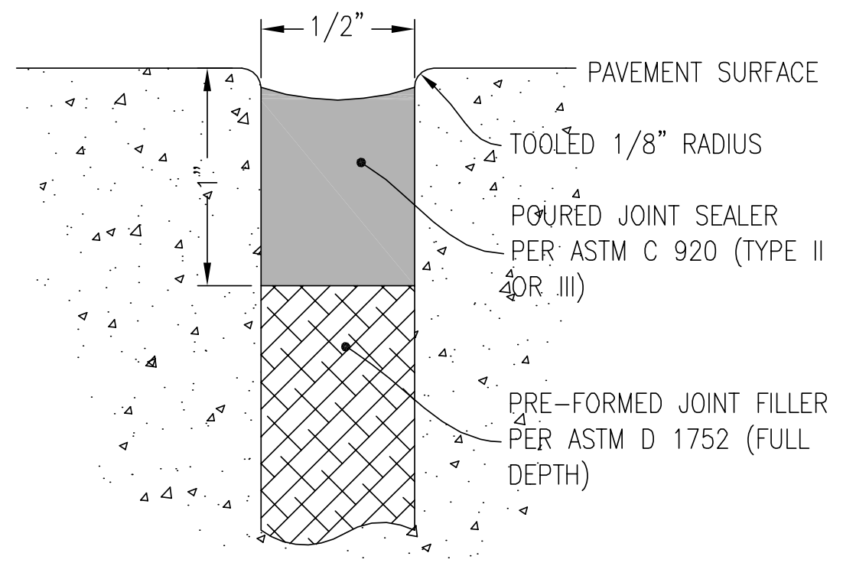
DUMPSTER PAD

N.T.S.



CONCRETE PAVEMENT SECTION DETAIL

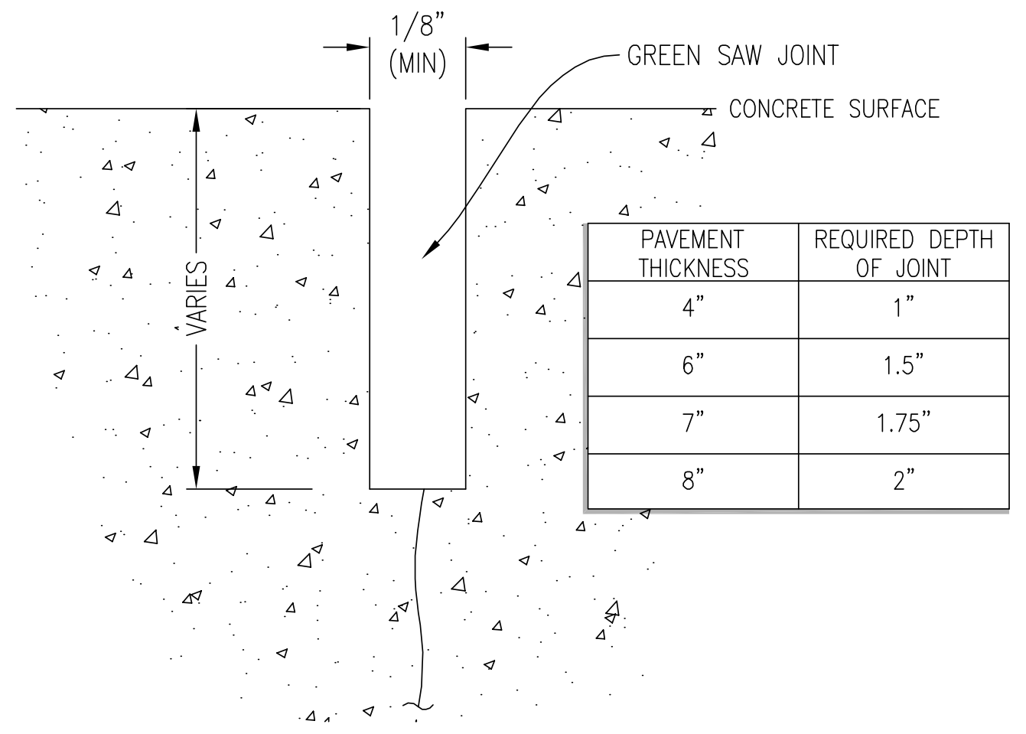
N.T.S.



NOTES:
1. TOP OF SEALANT SHALL BE 1/4" BELOW TOP OF PAVEMENT.
2. PRIOR TO SEALANT APPLICATION THOROUGHLY CLEAN JOINT.

SEALED EXPANSION JOINT DETAIL

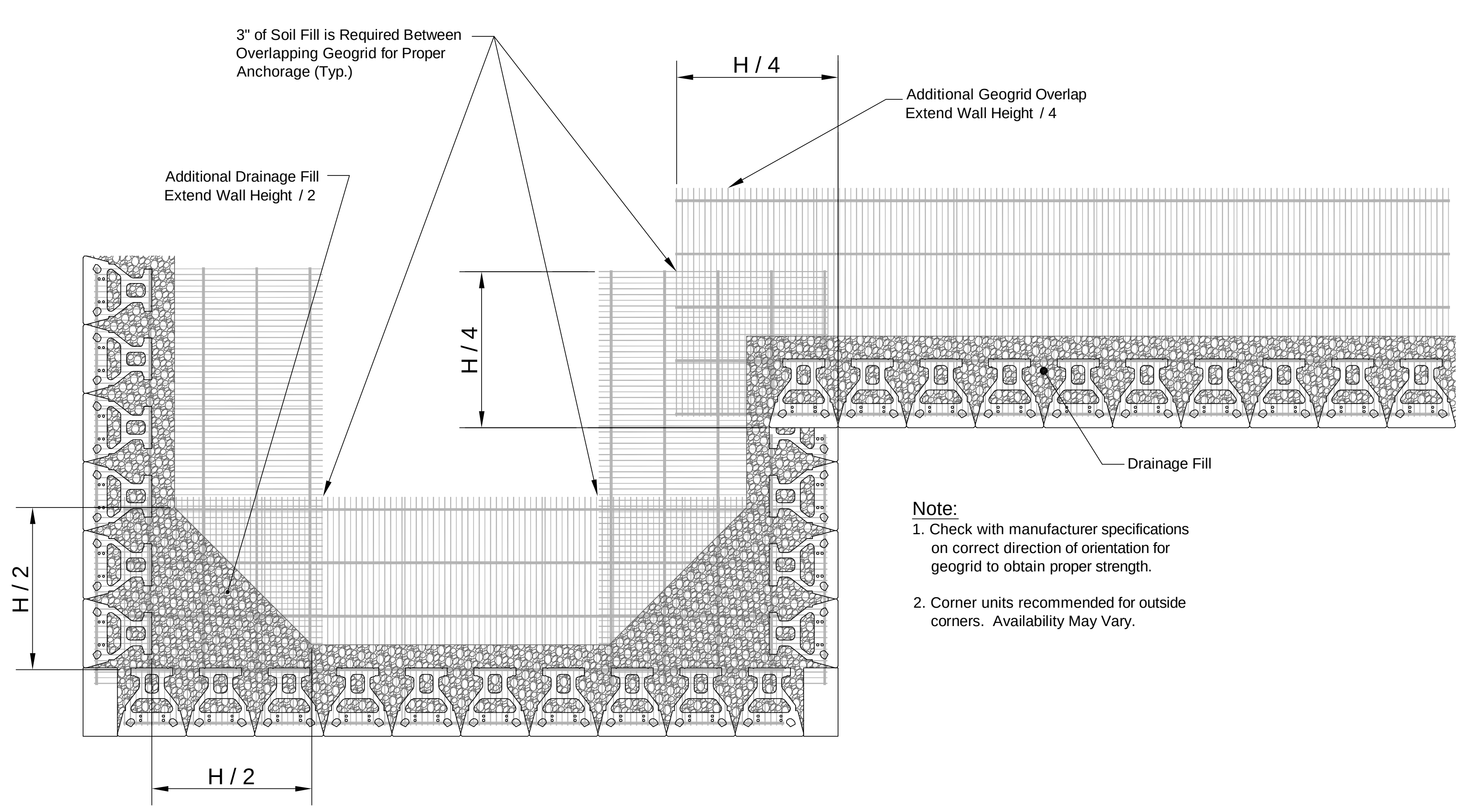
N.T.S.



PAVEMENT THICKNESS	REQUIRED DEPTH OF JOINT
4"	1"
6"	1.5"
7"	1.75"
8"	2"

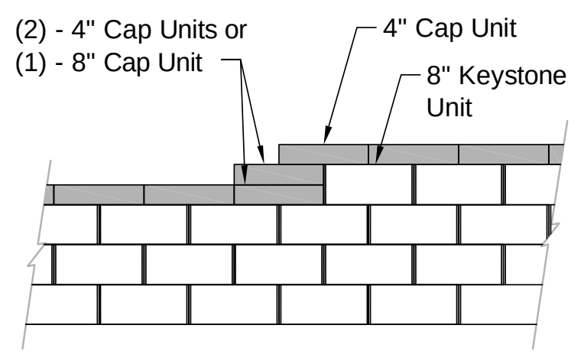
CONTRACTION JOINT DETAIL

N.T.S.



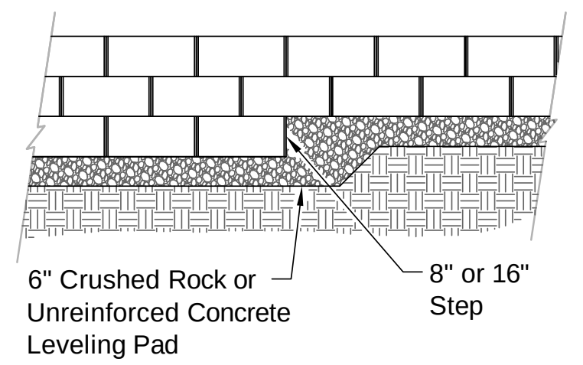
Note:
1. Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.
2. Corner units recommended for outside corners. Availability May Vary.

Geogrid Installation at Corners



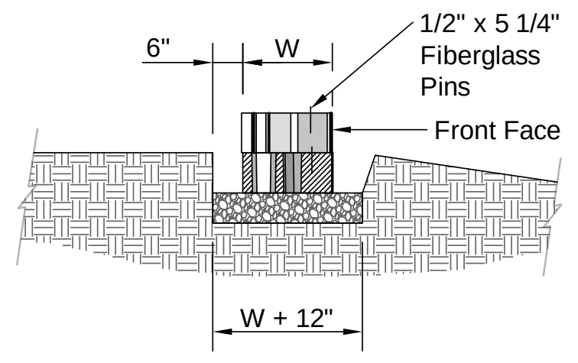
Note:
1. Secure all cap units with Keystone Kapseal or equal.

Top of Wall Steps



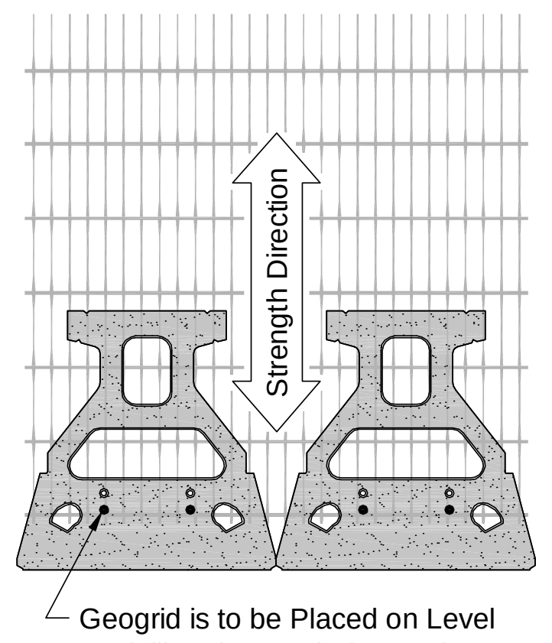
Elevation

Note:
1. The leveling pad is to be constructed of crushed stone or 2000 psi ± unreinforced concrete.



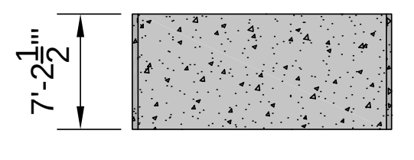
Section

Leveling Pad Detail

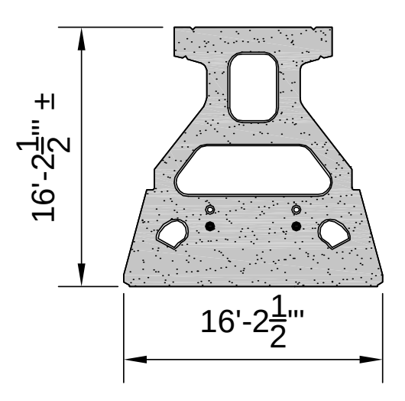


Geogrid is to be Placed on Level Backfill and Extended Over the Fiberglass Pins. Place Next Unit. Pull Grid Taught and Backfill. Stake as required.

Grid & Pin Connection



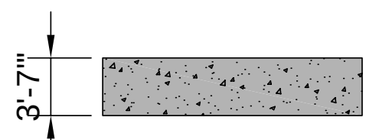
Standard Elevation



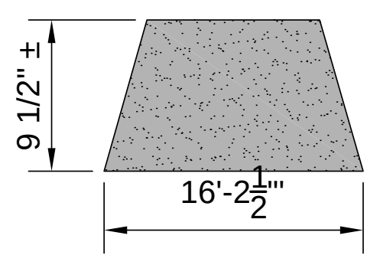
Standard Plan

Standard Unit

✳ Dimensions May Vary by Region



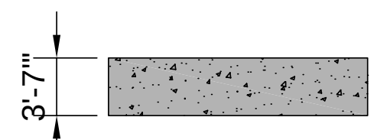
Cap Unit Elevation



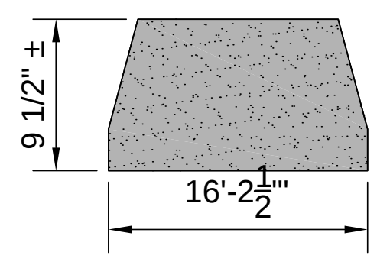
Cap Unit Plan

Universal Cap Unit Option

✳ Dimensions & Availability Will Vary by Region



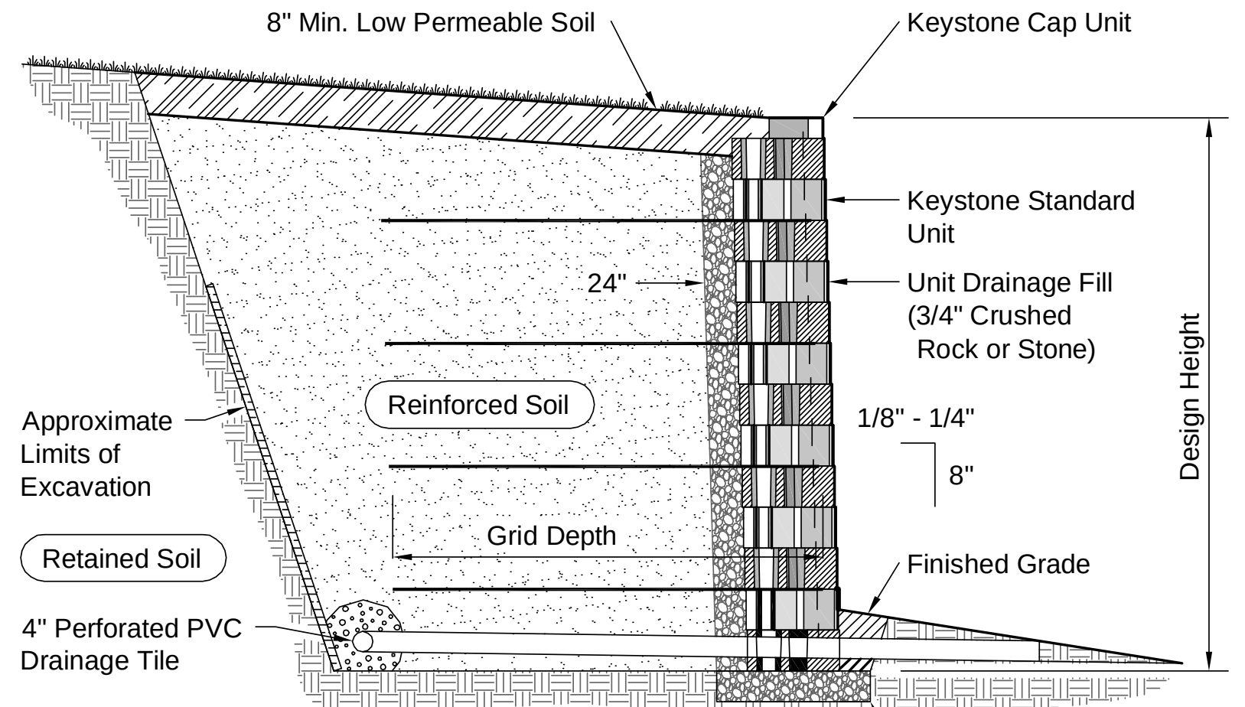
Cap Unit Elevation



Cap Unit Plan

Straight Split Cap Unit Option

✳ Dimensions & Availability Will Vary by Region



Note:
When site conditions require, wrap drainage tile in 3/4" aggregate and filter fabric with drainage composite or aggregate back drain system, as directed by geotechnical engineer.

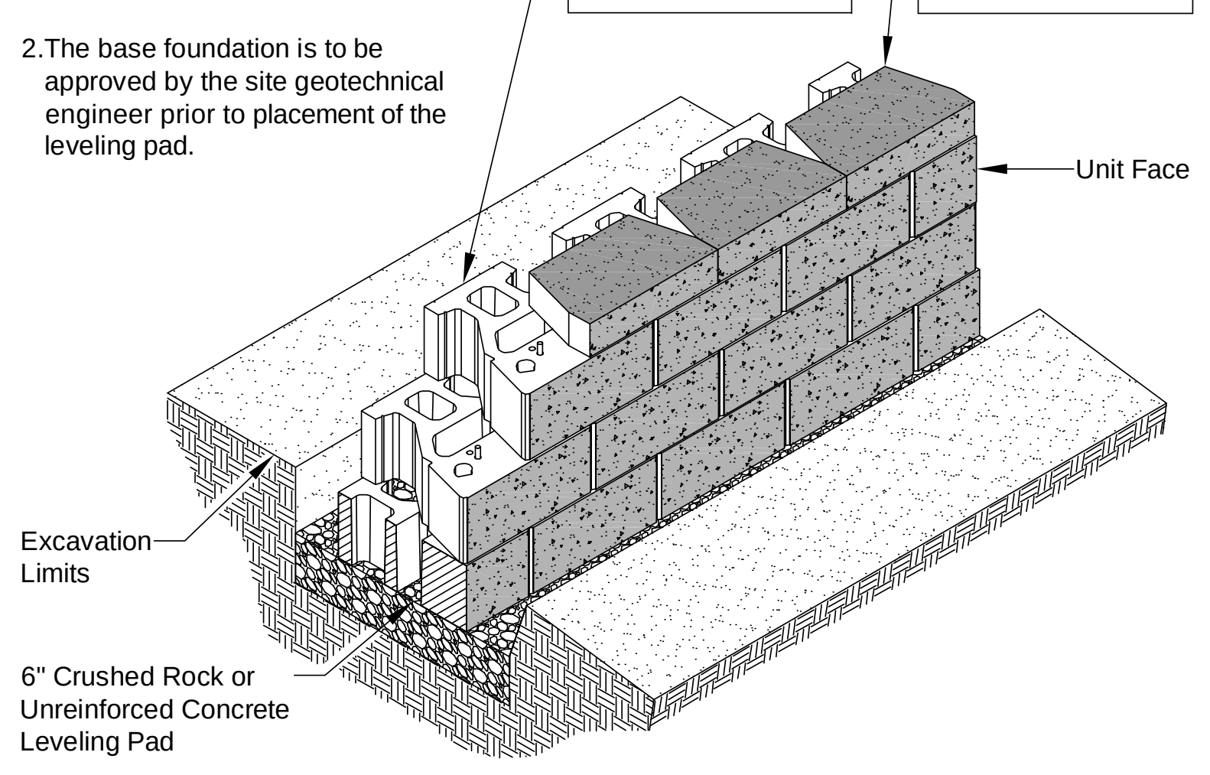
Typical Reinforced Wall Section

Standard Unit - Near Vertical Setback

Base Leveling Pad Notes:
1. The leveling pad is to be constructed of crushed stone or 2,000 psi± unreinforced concrete
2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Standard Unit	
Width:	18"
✳Depth:	18"
Height:	8"
✳Weight:	108 lbs

Cap Unit	
Width:	18"
✳Depth:	10 1/2"
Height:	4"
✳Weight:	50 lbs



Standard Unit/Base Pad Isometric Section View

✳ Dimensions & Weight May Vary by Region

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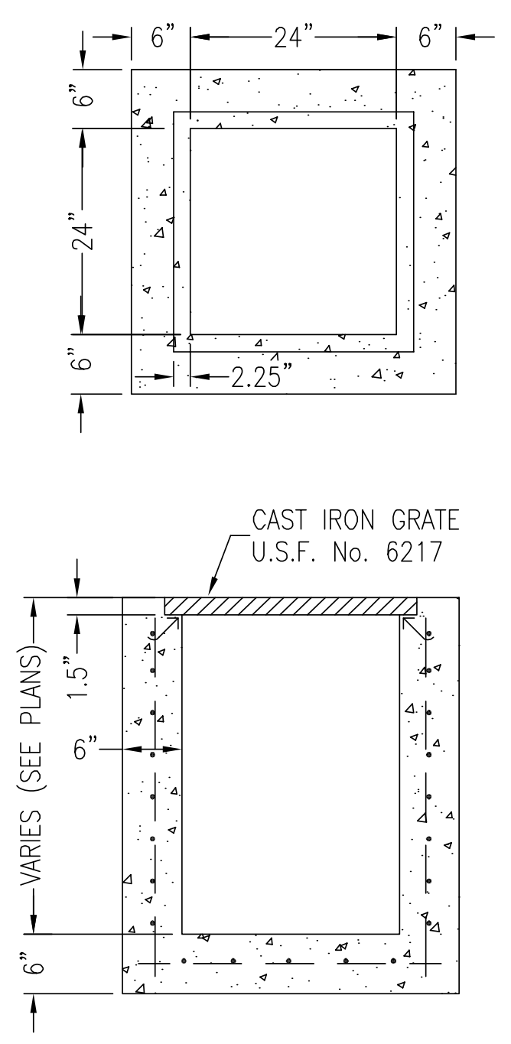
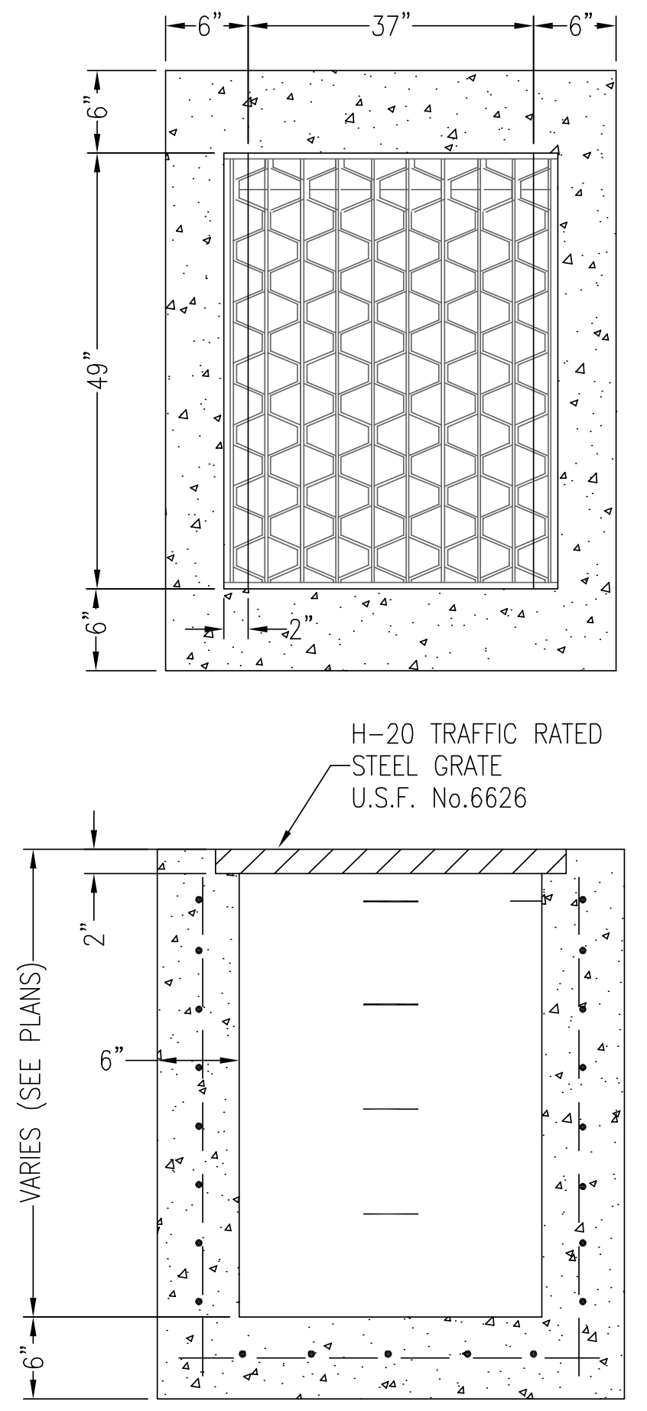
SHEET
C4.1



2'-0" x 2'-0" AREA DRAIN

N.T.S.



FDOT TYPE 'D' INLET

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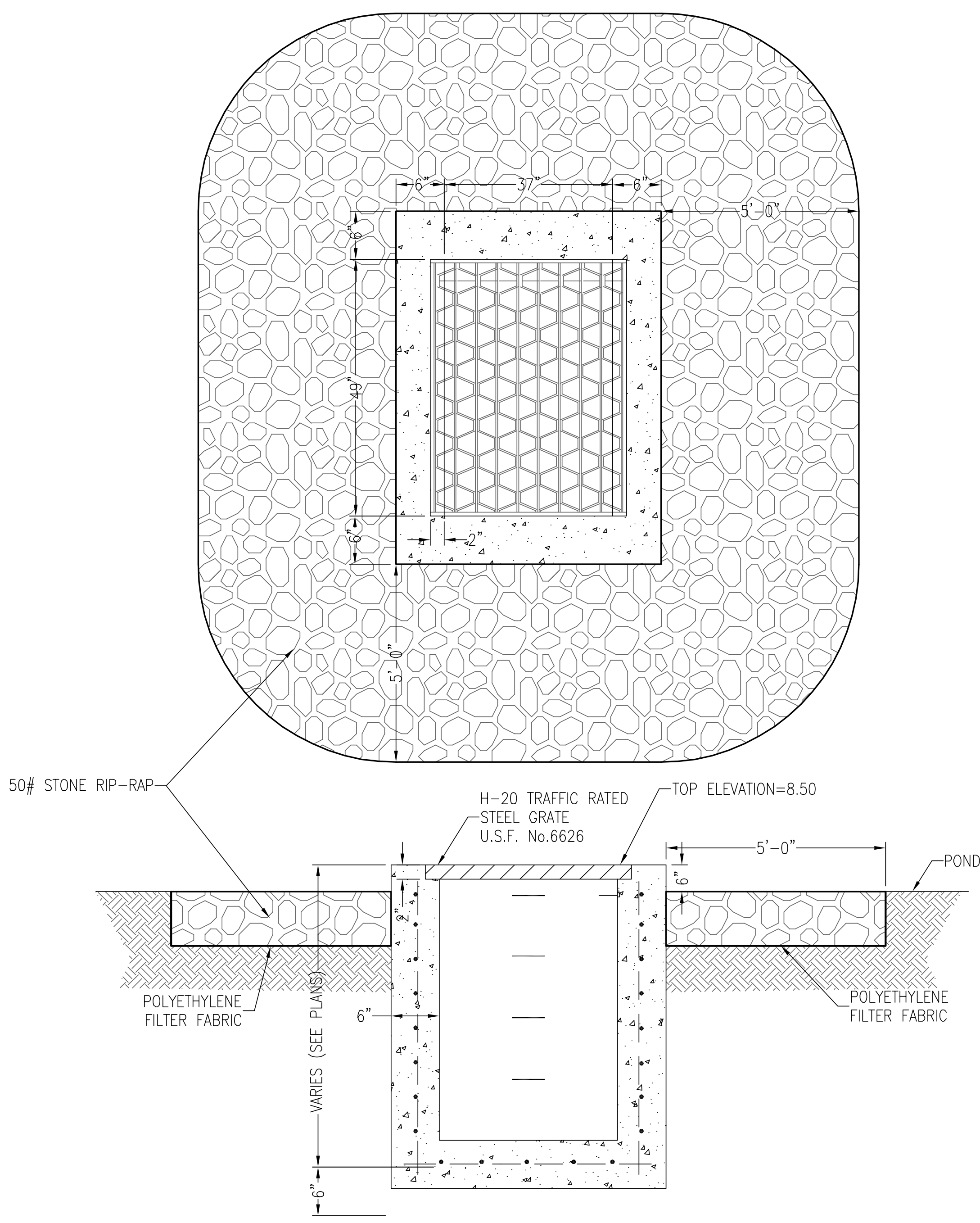
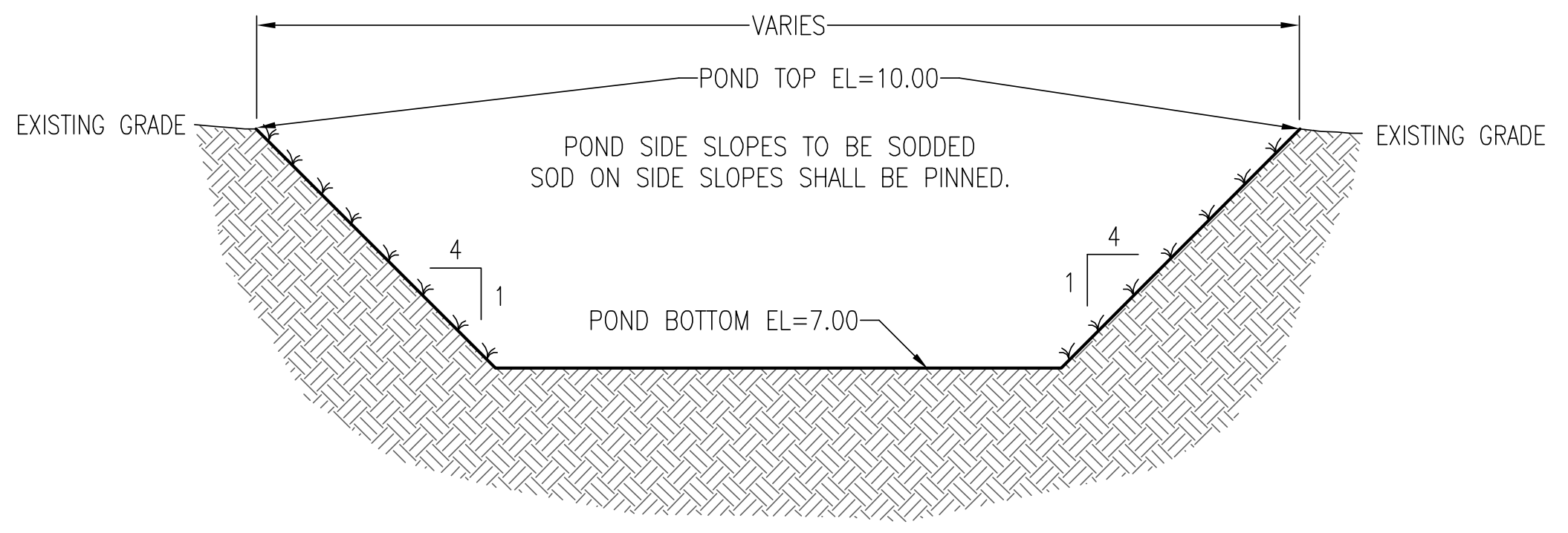


FDOT TYPE 'D' BUBBLE-UP STRUCTURE

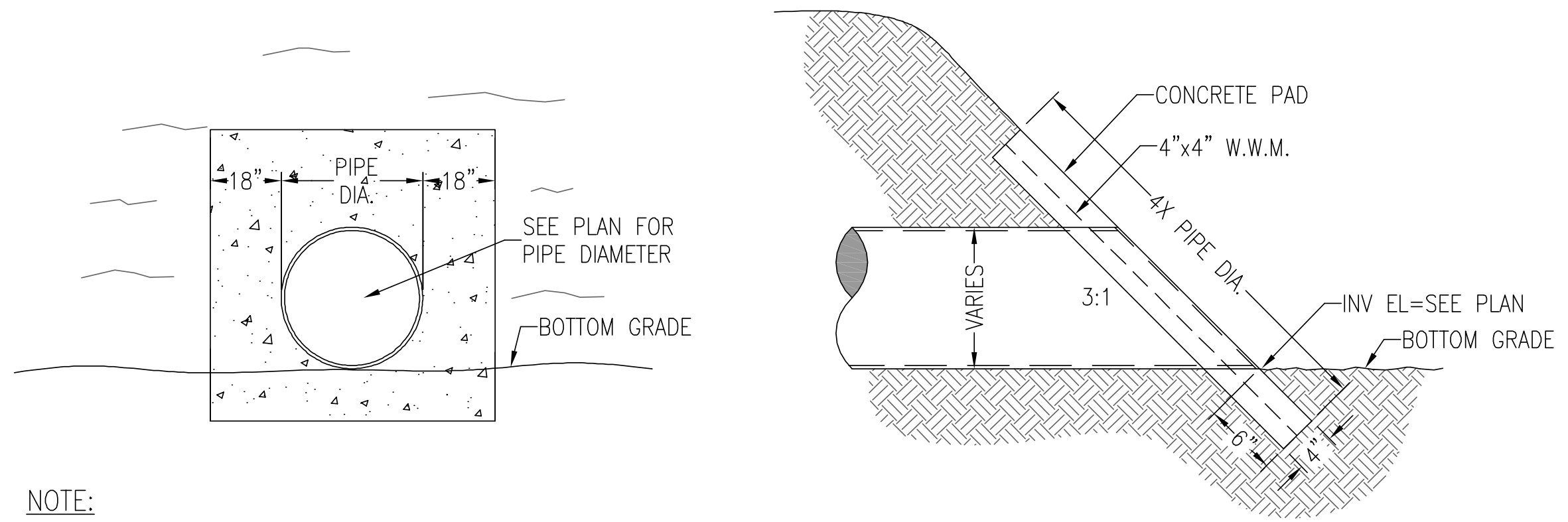
N.T.S.



NOTE:
THE ENTIRE BANK SLOPE SHALL BE SODDED IN A MANNER TO GUARANTEE HEALTHY GRASS GROWTH (FREE FROM NOXIOUS WEEDS) SUCH AS ST. AUGUSTINE, CENTIPEDE OR OTHER SUITABLE GRASS.

RETENTION POND CROSS SECTION A-A

N.T.S.

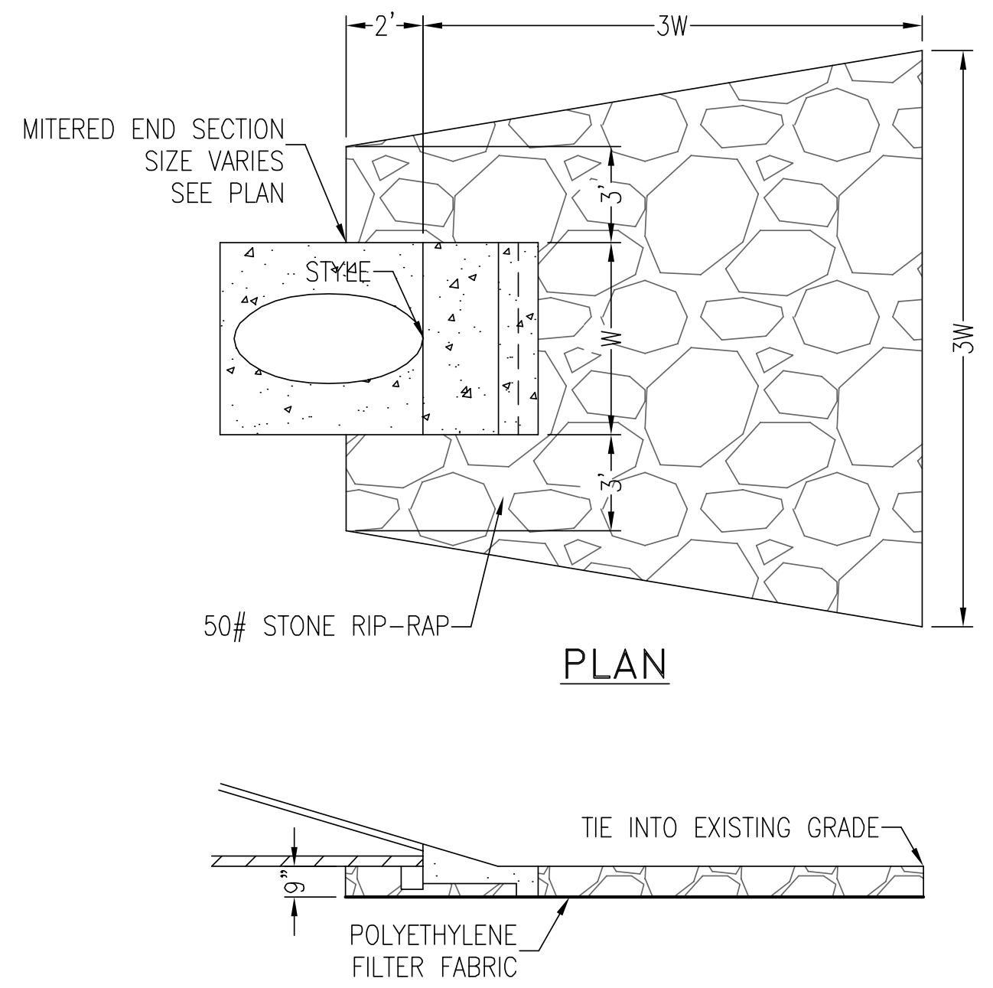


NOTE:
CUT DRAIN PIPE ENDS TO MITERED SECTIONS. COMPACT SOIL ADJACENT TO ENDS AND SOD ACCORDINGLY. ALSO, COMPACT SOIL LIFT COVERING DRAIN PIPES AND SOD ACCORDINGLY.

TYPICAL SECTION

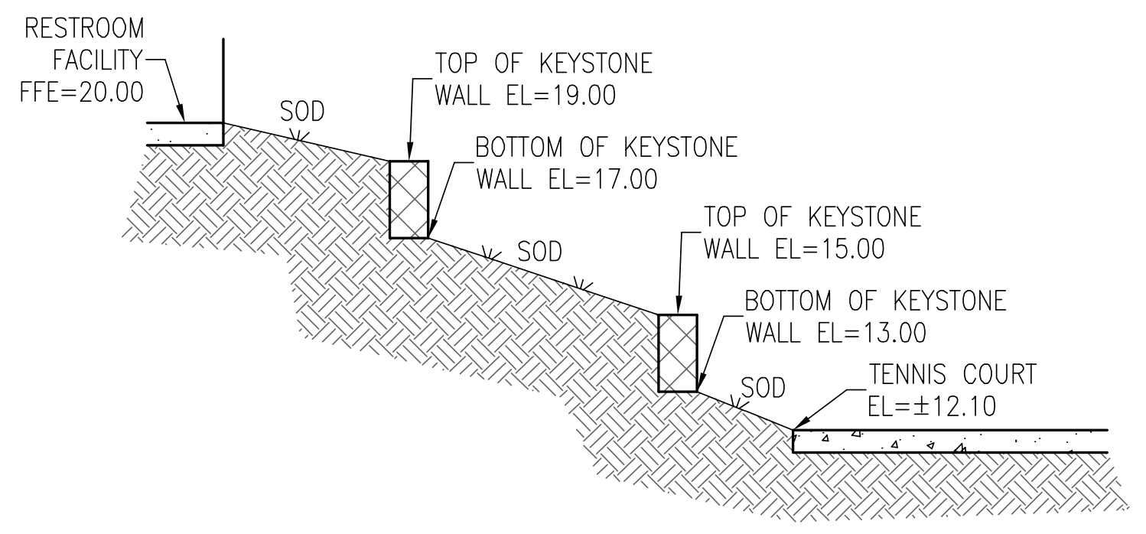
MITERED END SECTION

N.T.S.



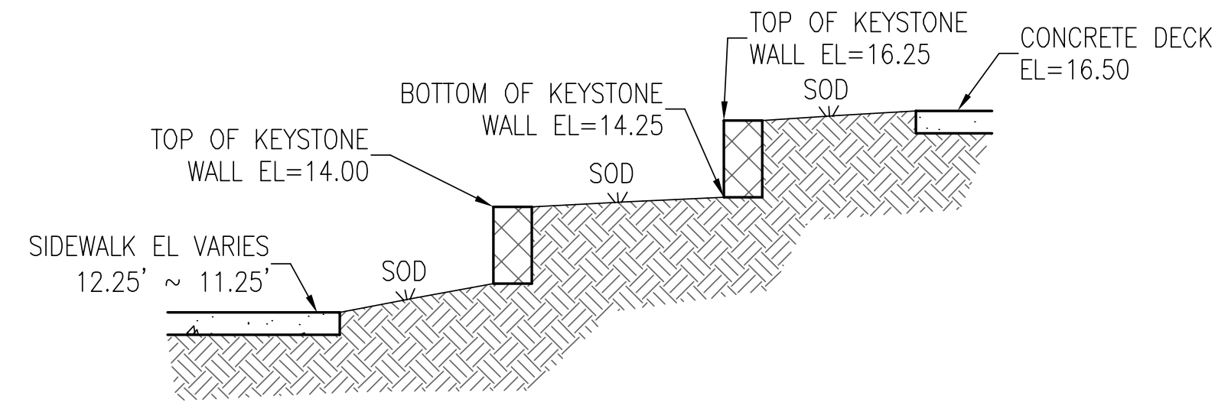
RIP-RAP DETAIL

N.T.S.



KEYSTONE WALL CROSS SECTION B-B

N.T.S.



KEYSTONE WALL CROSS SECTION C-C

N.T.S.

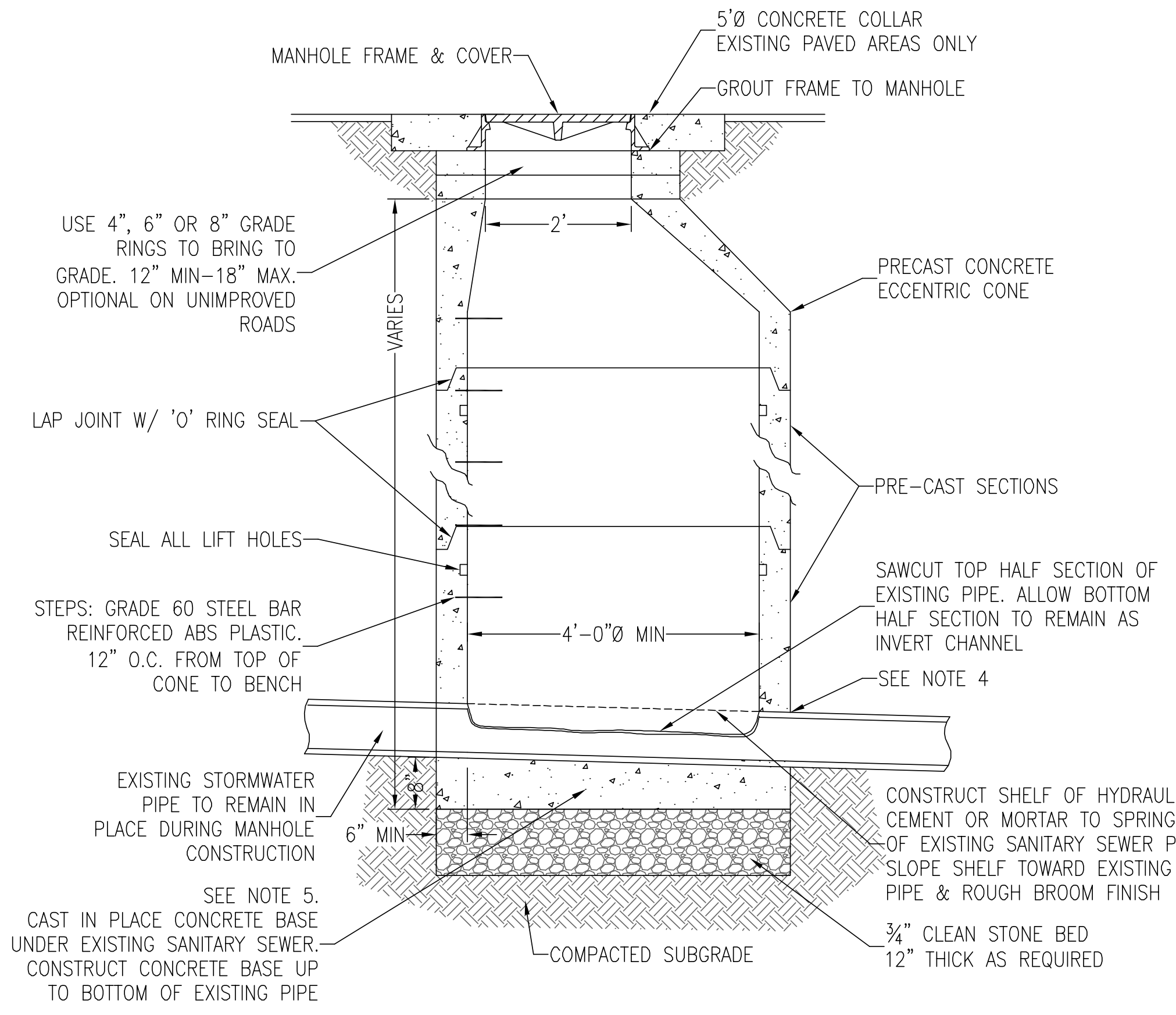
NOTES:
1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS WITH 4000 PSI CONCRETE.

2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED.

3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE, FORM PLASTIC GASKET OR EQUAL.

4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.

5. CAST IN PLACE CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A615 GRADE 60. CAST IN PLACE BASE SECTION TO BE CONSTRUCTED ON 12-INCH LAYER OF 3/4" CLEAN STONE MATERIAL. PRE-CAST SECTIONS MAY BE INSTALLED AFTER CONCRETE BASE HAS ATTAINED 75% OF DESIGN STRENGTH.



STORMWATER DOGHOUSE MANHOLE DETAIL

N.T.S.

NOTES:
1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS WITH 4000 PSI CONCRETE.

2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED.

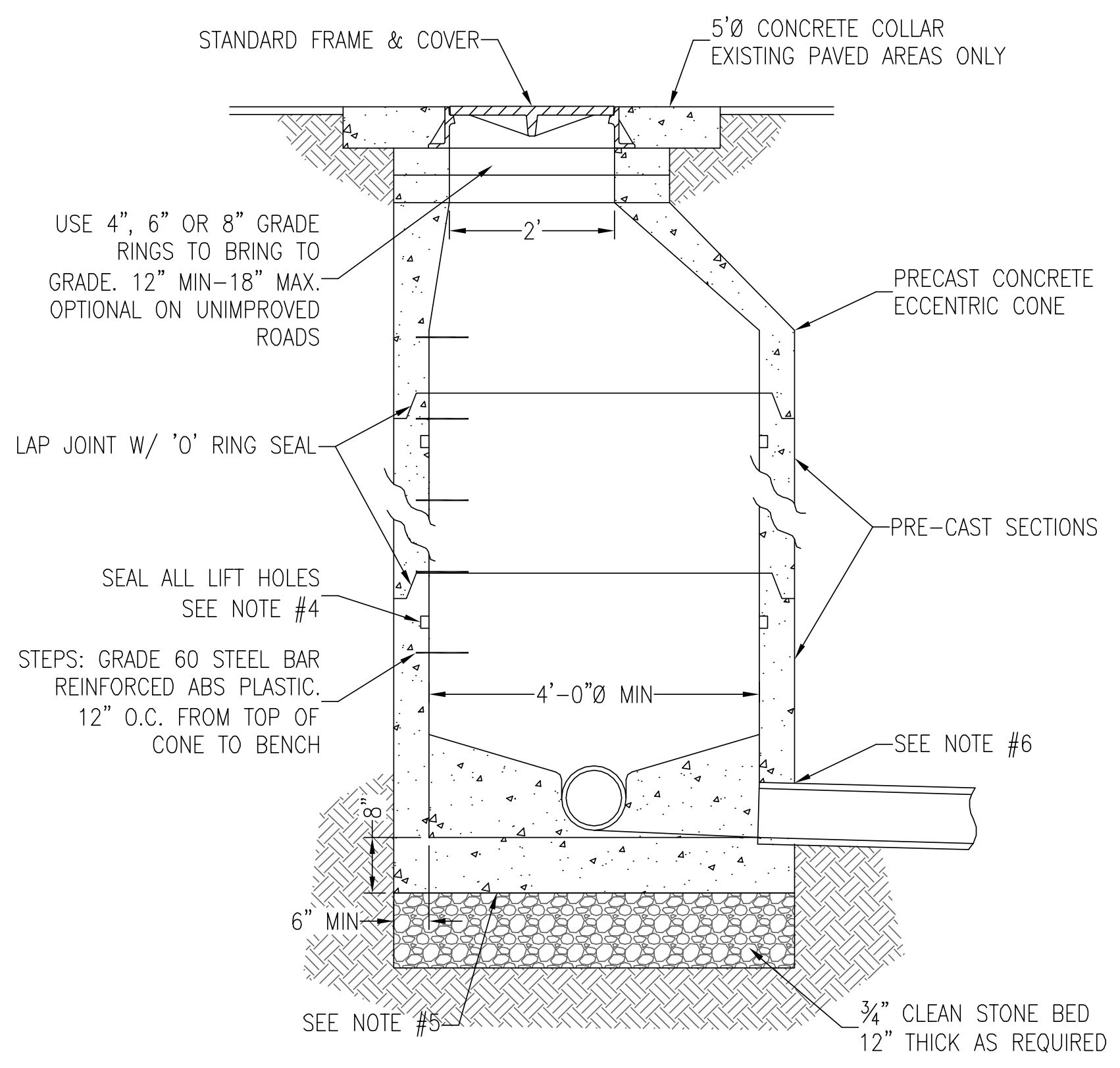
3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE FORM PLASTIC GASKET OR EQUAL.

4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.

5. CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A 615 GRADE 60 OR PROVIDE PRE-CAST MANHOLE BASE SECTION IN CONFORMANCE WITH ASTMA C-478.

6. SEAL WITH A-LOK, KORE-N-SEAL OR LOCK-JOINT PER SPECIFICATION 2570-2.03.

7. CAST IN PLACE MANHOLE MAY BE ALLOWED IN PRE-APPROVED LOCATIONS.



STORMWATER MANHOLE DETAIL

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SHEET TITLE:
GRADING & DRAINAGE DETAILS

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C4.2

UTILITY NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND DEPTH OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION.

2. CONTRACTOR SHALL COORDINATE WITH CITY OF GULF BREEZE , AND GULF POWER, OR ANY OTHER UTILITY COMPANIES HAVING JURISDICTION FOR REMOVAL/RELOCATION AND/OR PROTECTION OF EXISTING UTILITY POLES, AERIAL LINES, FIRE HYDRANTS, AND OTHER UTILITIES AS NECESSARY TO COMPLETE CONSTRUCTION.

3. ALL NEW WATER LINES SHALL BE CLEANED, DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY CLEANED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND REGULATIONS.

4. ALL WATER MAINS SHALL BE NSF APPROVED FOR POTABLE WATER USE.

5. MAINTAIN 18 INCH MIN. VERTICAL SEPARATION BETWEEN ALL POTABLE WATER MAINS AND SANITARY SEWER GRAVITY LINES. (WATER ABOVE SEWER).

6. THE TOP OF ALL CLEANOUTS SHALL BE FLUSH WITH THE PAVEMENT OR, WHEN NOT IN THE PAVEMENT, FLUSH WITH THE FINISH GRADE. CONNECTION POINTS FOR UTILITIES SHALL BE CLEARLY MARKED FOR FUTURE BUILDING CONNECTION, COORDINATE WITH PLUMBING CONTRACTOR.

7. ALL WATER AND SEWER WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF GULF BREEZE/SSRUS STANDARDS.

8. ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION.

9. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES 72 HOURS (3 BUSINESS DAYS) PRIOR TO BEGINNING CONSTRUCTION.

10. ALL NEW WATER AND SEWER SERVICE LINES SHALL HAVE A MINIMUM COVER OF 30 INCHES (MAXIMUM 36"), UNLESS OTHERWISE NOTED.

11. CONTRACTOR IS TO RESTORE ALL DISTURBED RIGHT-OF-WAYS IN ACCORDANCE WITH CITY OF GULF BREEZE GUIDELINES.

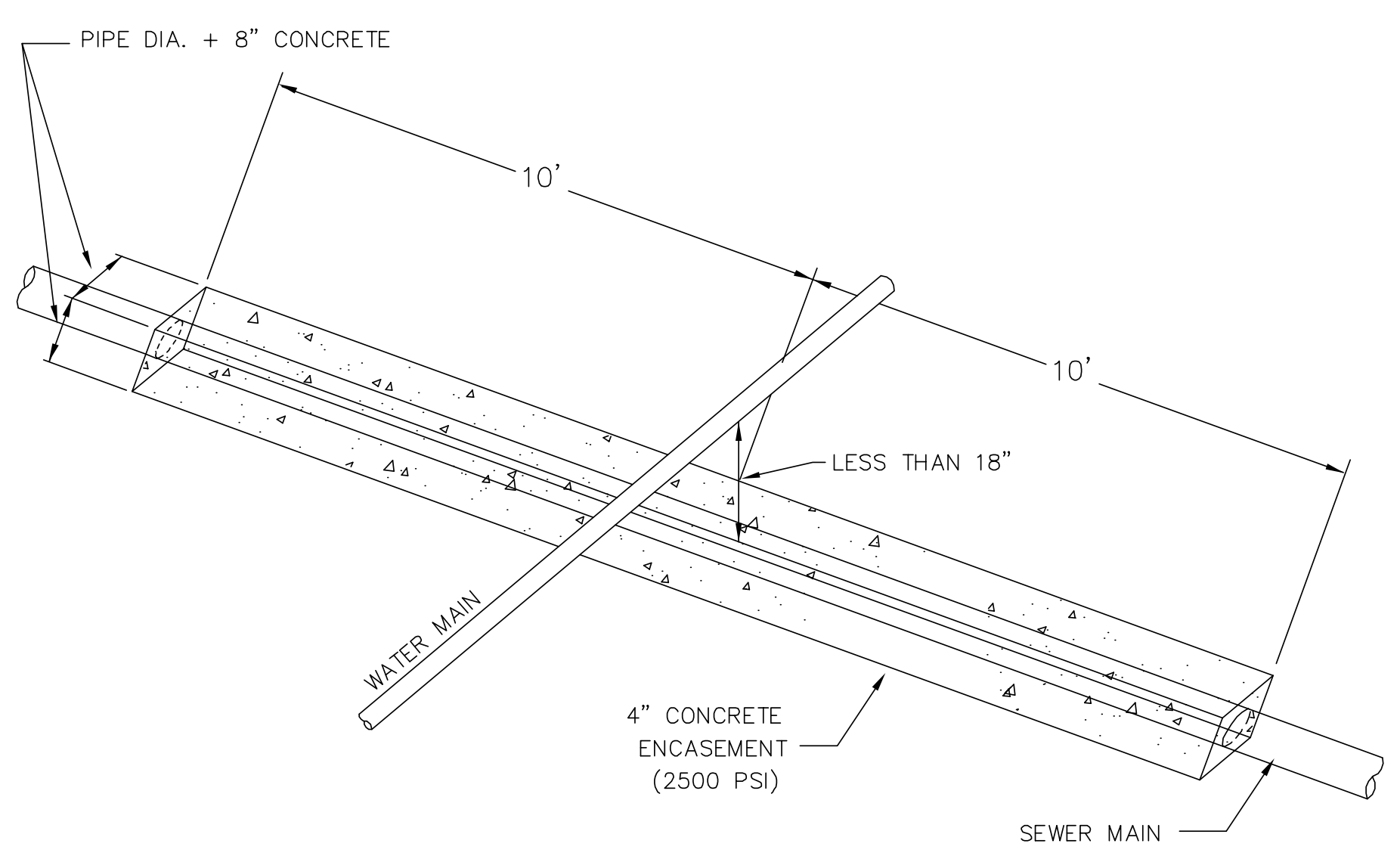
12. CONTRACTOR SHALL COORDINATE W/PLUMBING CONTRACTOR FOR BUILDING UTILITIES' CONNECTION.

13. ALL CONNECTIONS TO THE CITY WATER AND SEWER SYSTEM SHALL BE MADE WITH CITY PERSONNEL PRESENT.

14. ANY REMOVAL OR RELOCATION OF CITY/SSRUS WATER/SEWER UTILITIES MUST BE APPROVED IN WRITING PRIOR TO THE WORK BEING DONE.

SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 6" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10' OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES.

IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE NOTES BELOW:



FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

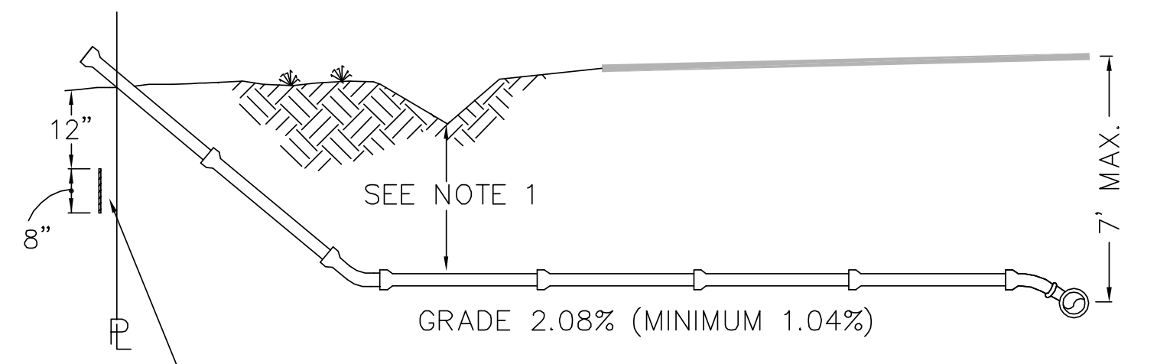
ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

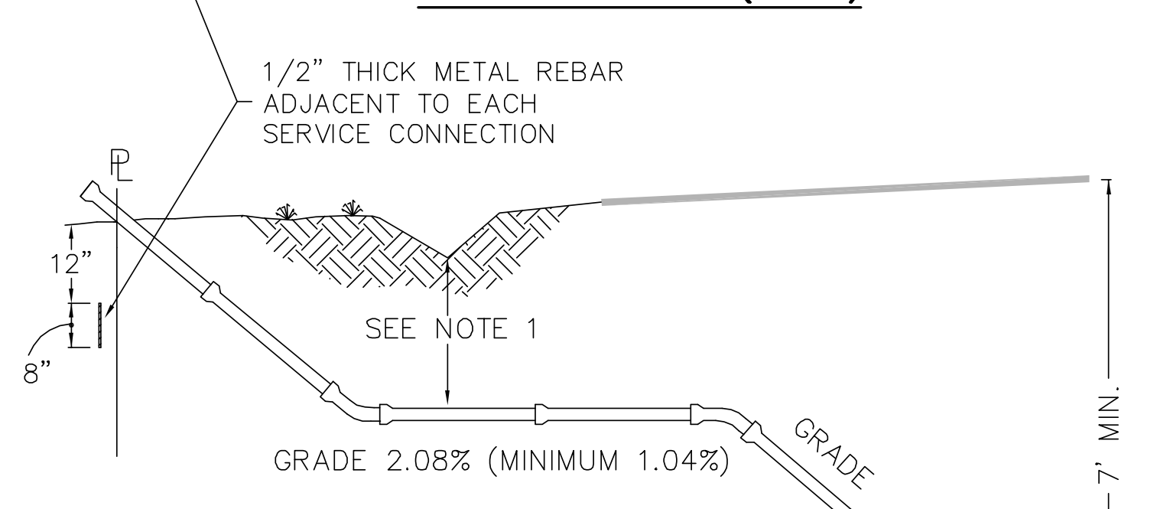
FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 40' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (i.e., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

SEWER / WATER
SEPARATION & CLEARANCES

N.T.S.

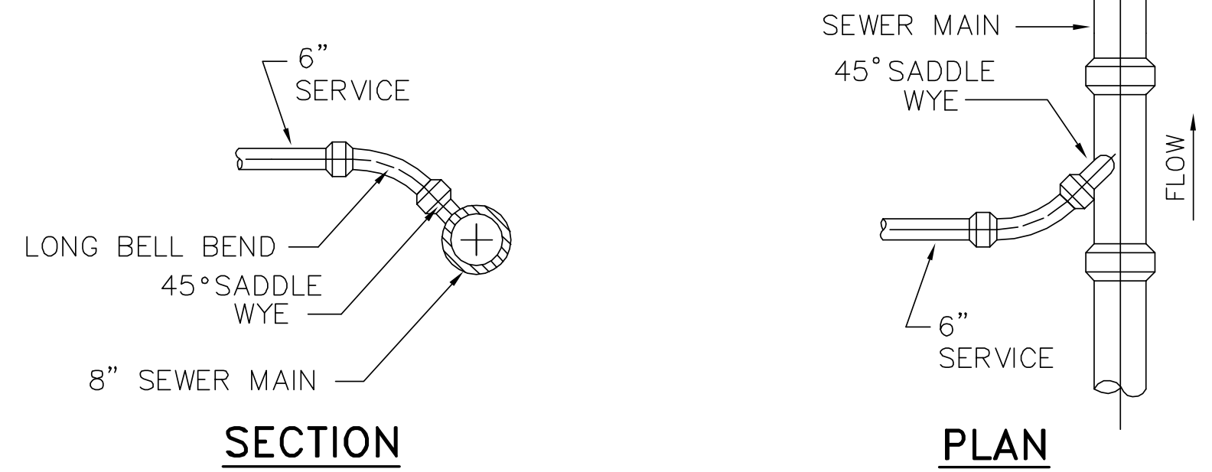


WYE BRANCH (TYP.)



NOTES:

1. MAINTAIN 18" MINIMUM COVER OR USE 6 L.F. CONCRETE ENCASEMENT
2. ALL LATERALS TO BE 4" Ø UNLESS FLOW DICTATES A LARGER DIAMETER.
3. A USABLE GRAVITY LATERAL SHALL BE AVAILABLE TO EACH LOT UNLESS OTHERWISE INDICATED ON CONSTRUCTION PLANS.
4. A CLEANOUT SHALL BE PROVIDED AT THE PROPERTY LINE FOR ALL 4-INCH AND 6-INCH LATERALS.



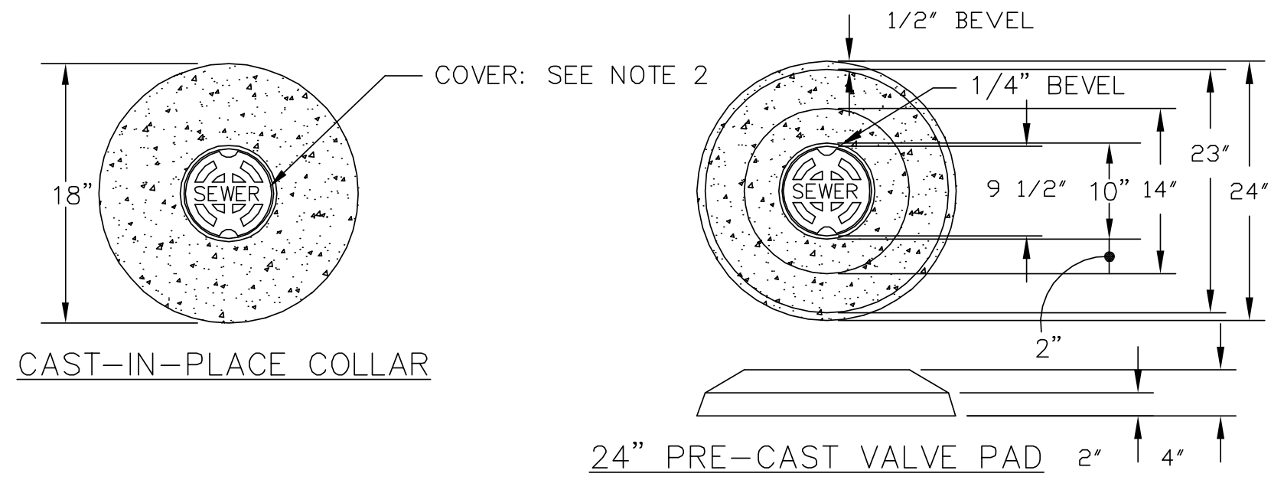
SECTION PLAN

TYPICAL LATERAL
SEWER CONNECTION

N.T.S.

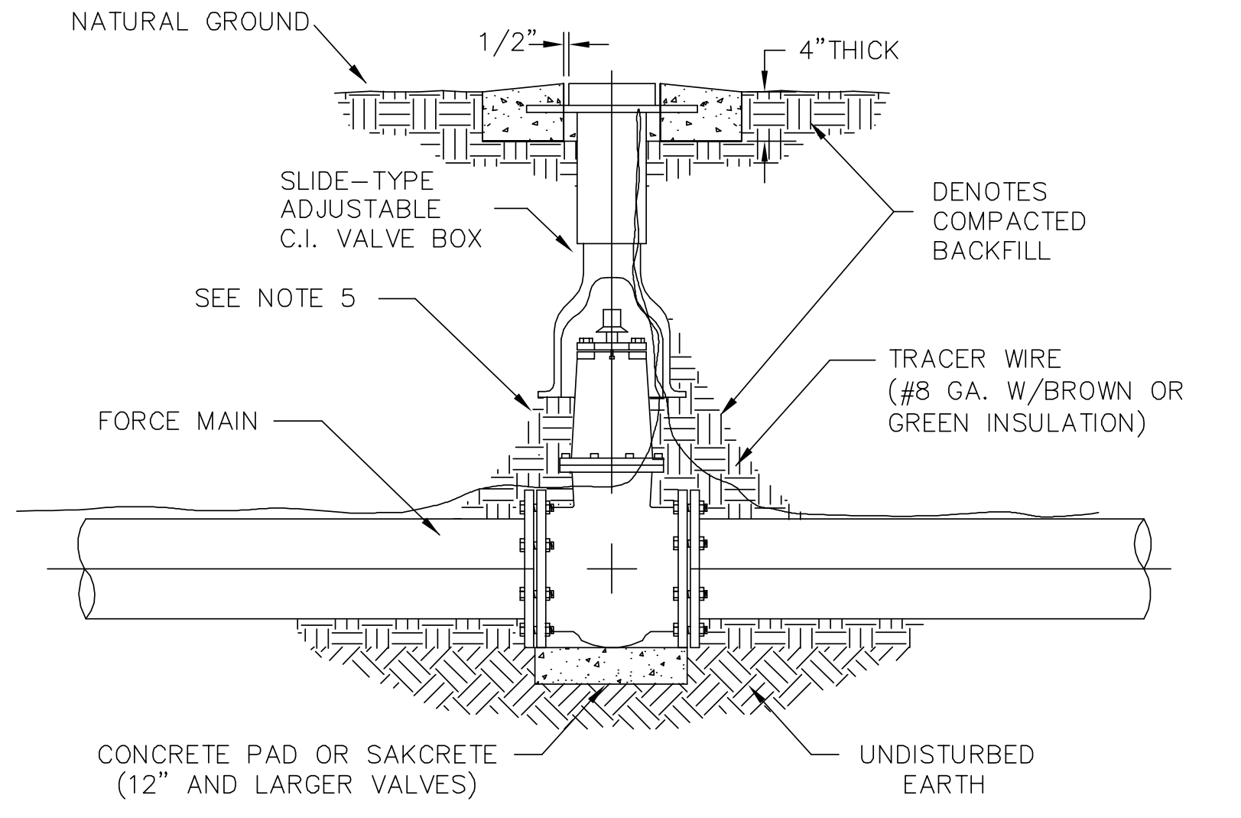
NOTES:

1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "SEWER" OR "WATER"
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE AWWA C509 WEDGE TYPE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



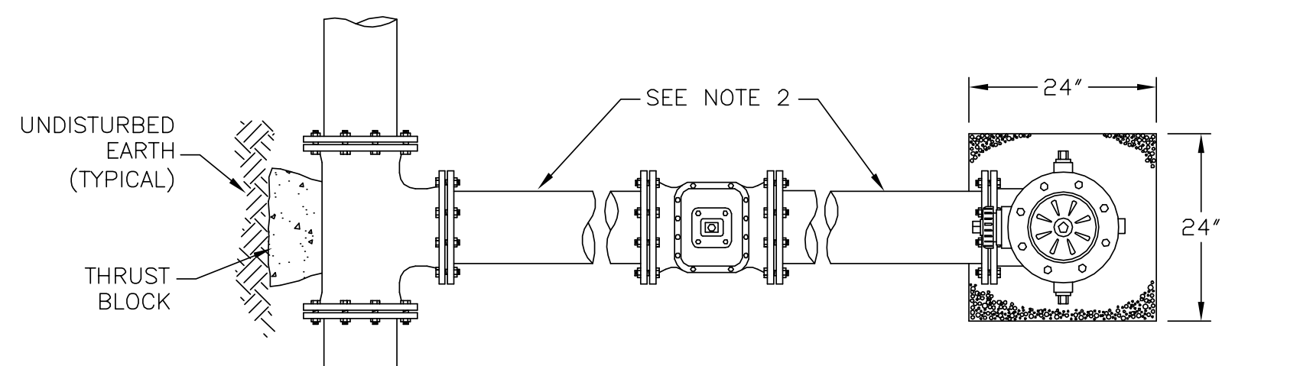
CAST-IN-PLACE COLLAR

24" PRE-CAST VALVE PAD 2" 4"



VALVE & BOX INSTALLATION

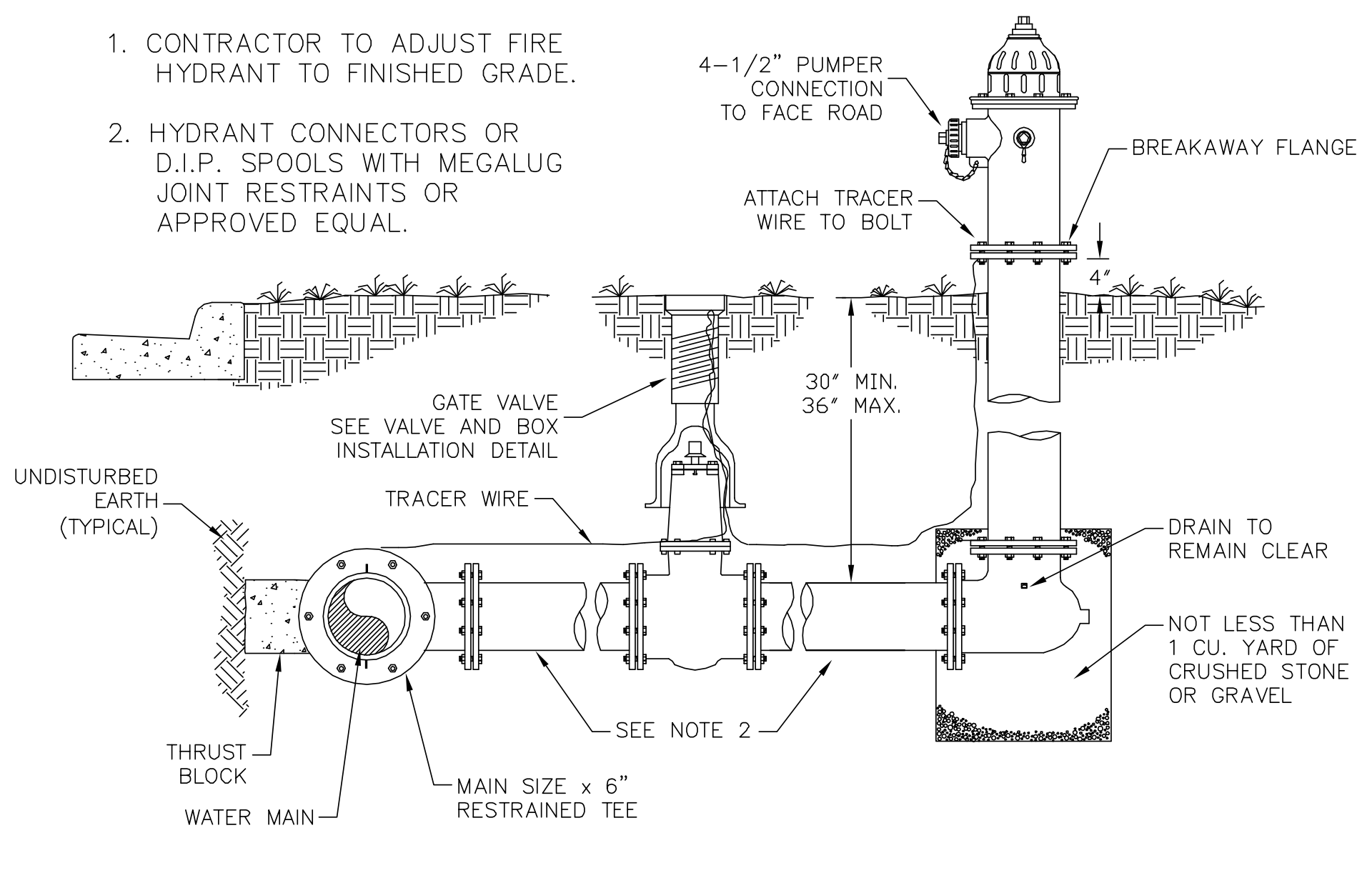
N.T.S.



TYPICAL TEE & VALVE
WITH HYDRANT

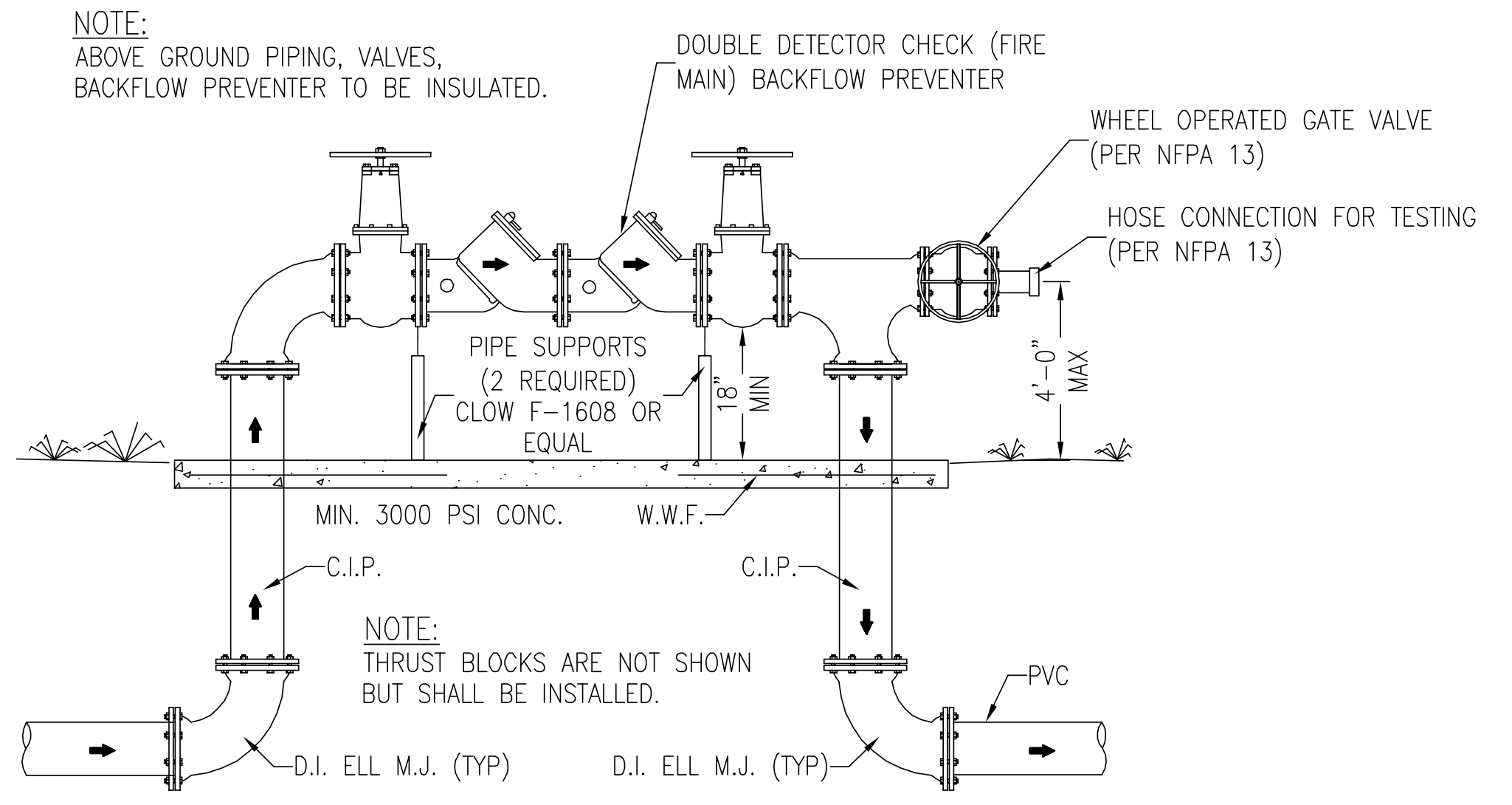
NOTES:

1. CONTRACTOR TO ADJUST FIRE HYDRANT TO FINISHED GRADE.
2. HYDRANT CONNECTORS OR D.I.P. SPOOLS WITH MEGALUG JOINT RESTRAINTS OR APPROVED EQUAL.



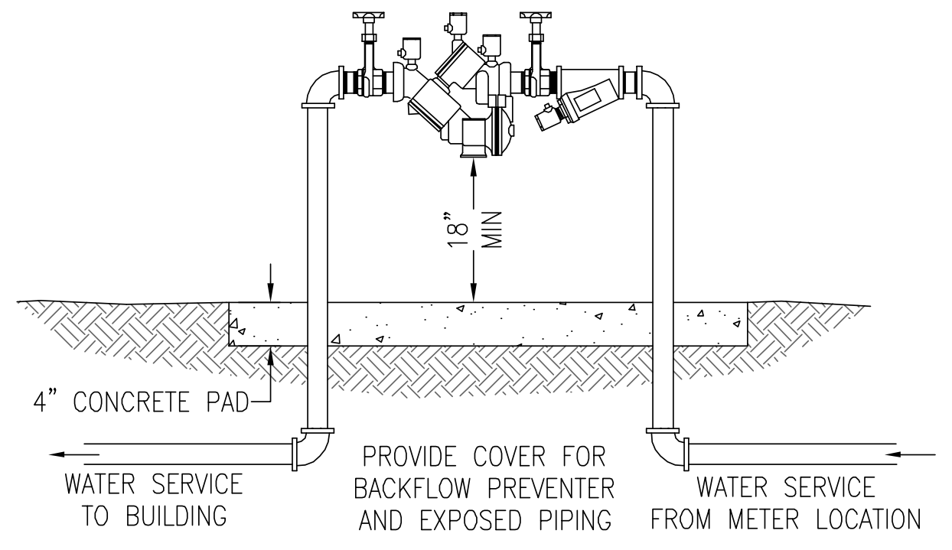
TYPICAL FIRE HYDRANT INSTALLATION
VALVE AND TEE CONNECTION

N.T.S.



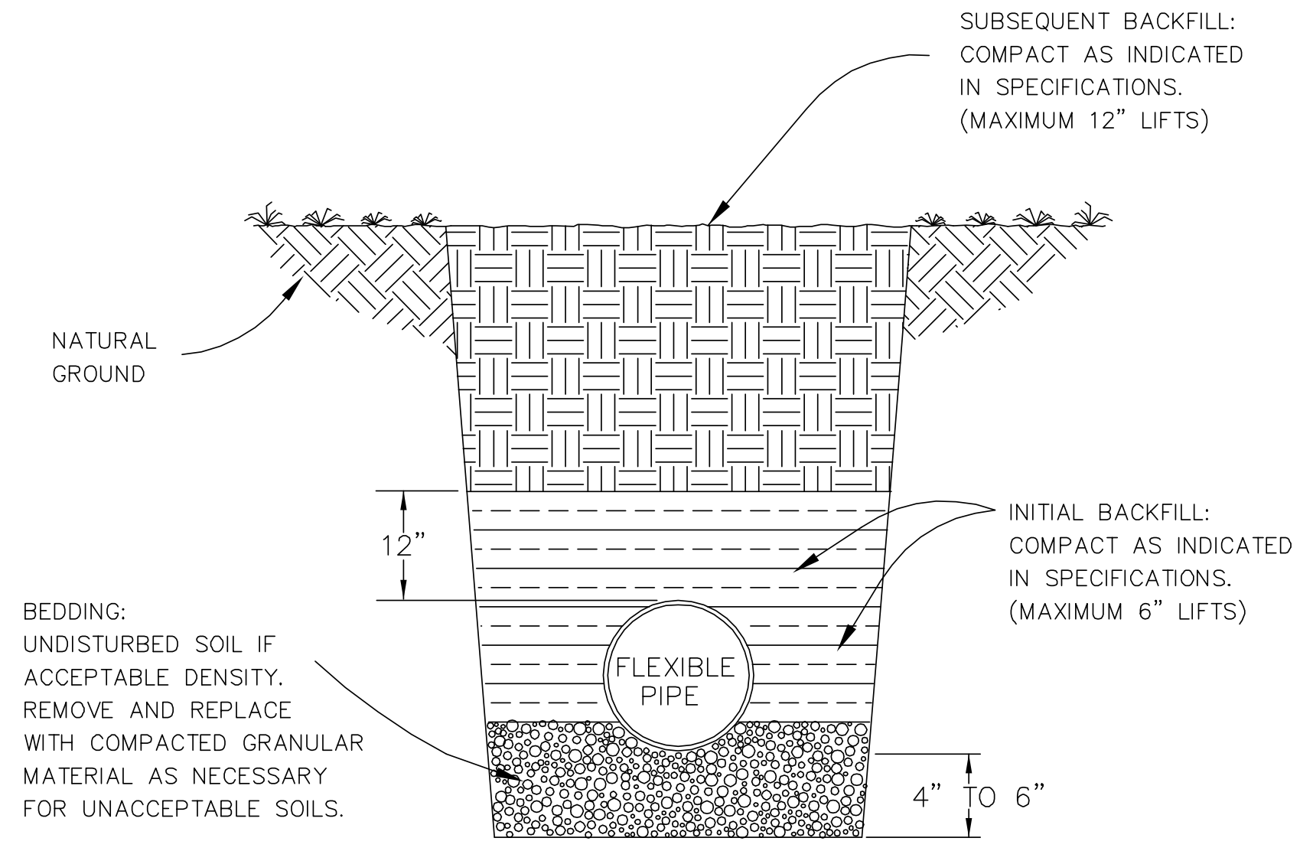
DOUBLE DETECTOR BACKFLOW PREVENTER W/
FLOW TEST CONNECTION DETAIL

N.T.S.



REDUCED PRESSURE PRINCIPLE
BACKFLOW PREVENTION ASSEMBLY

N.T.S.

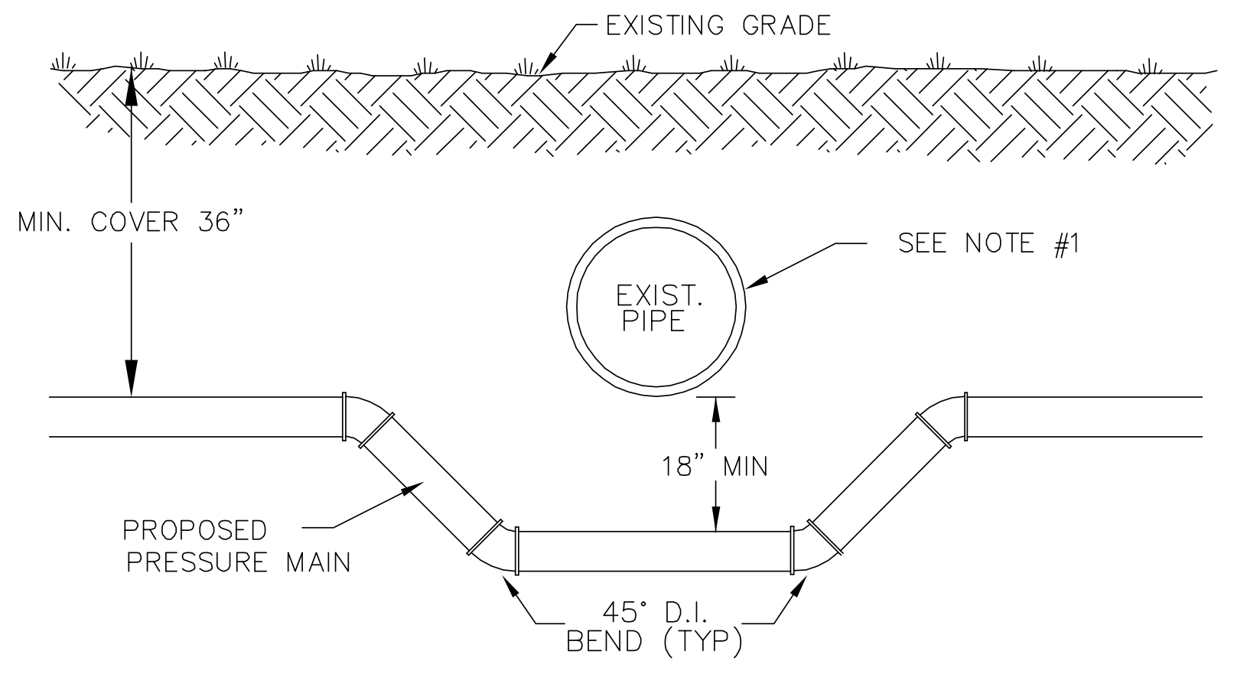


FLEXIBLE PIPE BEDDING

N.T.S.

NOTES:

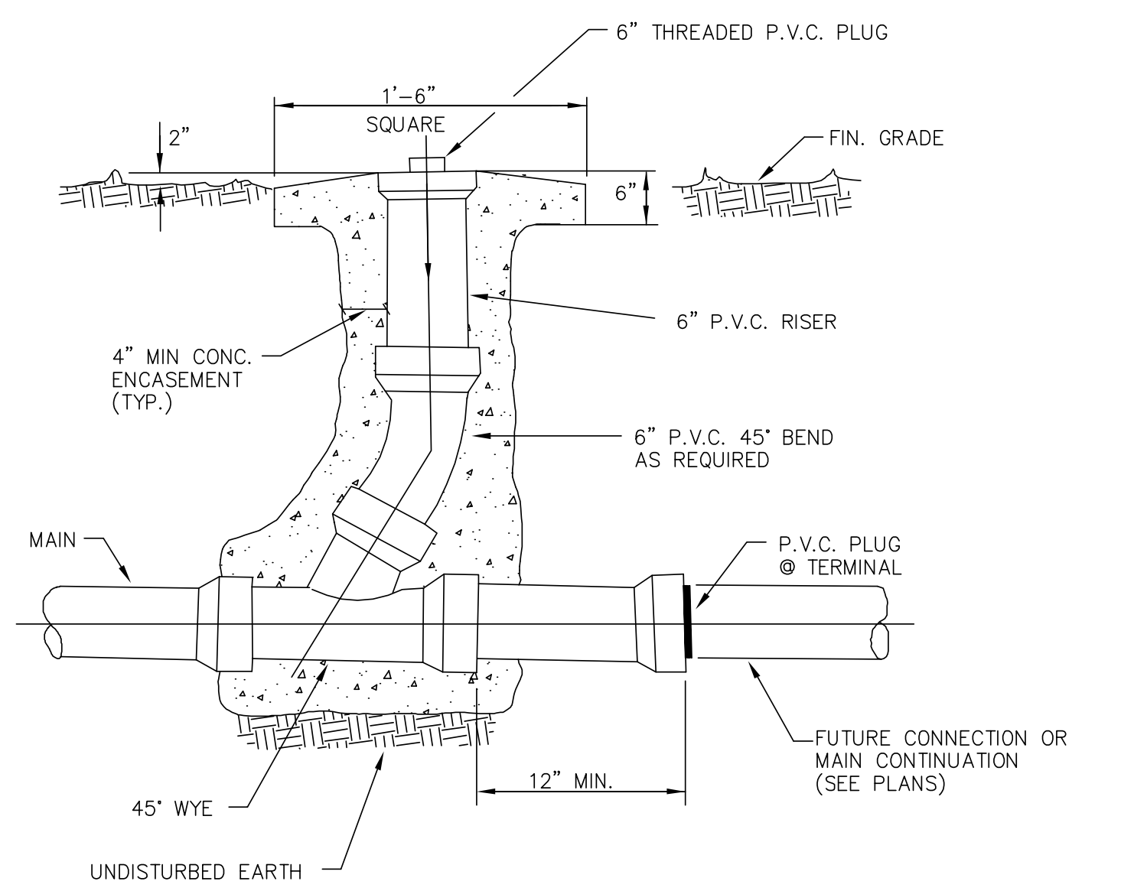
1. IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO ENCASEMENT DETAIL FOR ADDITIONAL SPECIFICATIONS.
2. ALL FITTINGS ARE TO BE C.I. RETAINING JOINT TYPE.



CONFLICT DETAIL

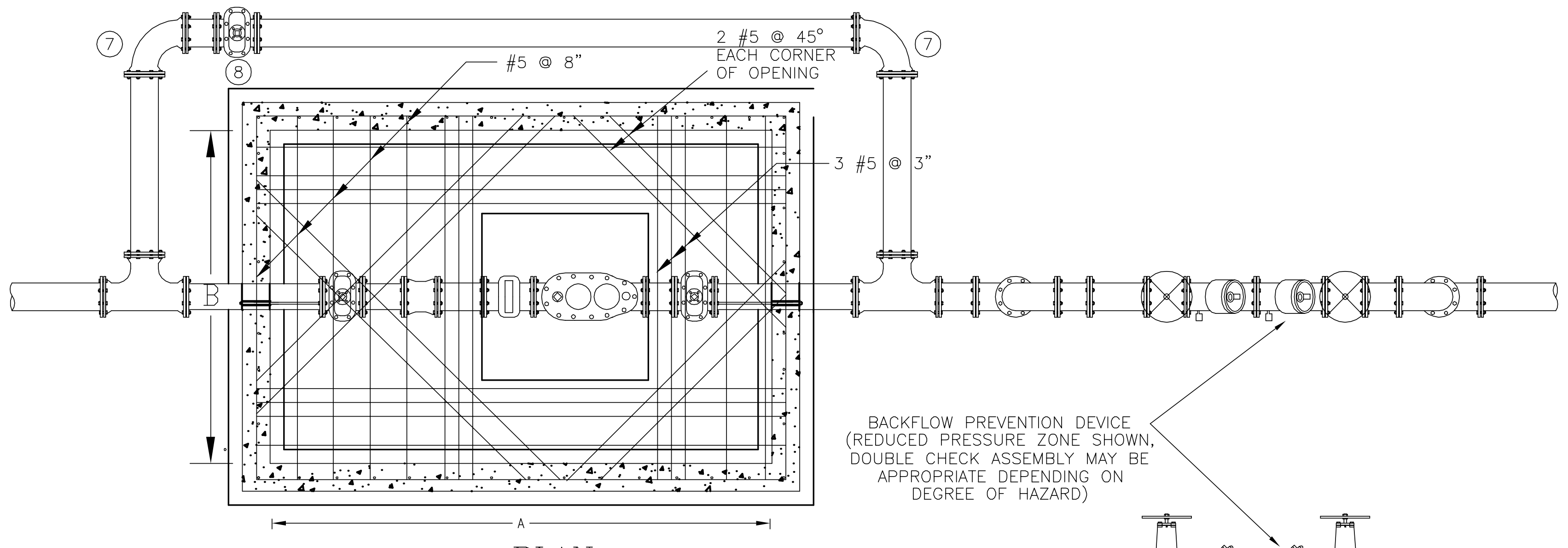
N.T.S.

NOTE: CONTRACTOR SHALL BE REQUIRED TO ADJUST UTILITIES (WATER MAINS, GAS MAINS, ETC.) AS NECESSARY TO AVOID CONFLICTS.

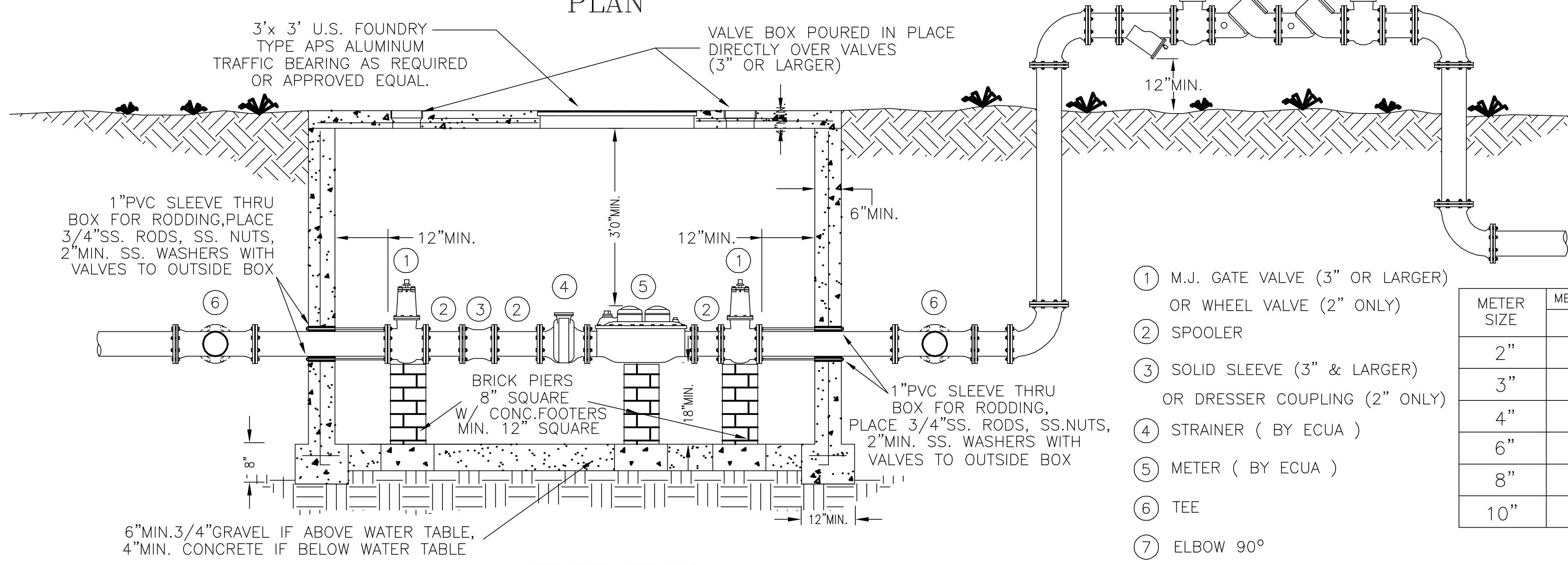


CLEANOUT DETAIL

N.T.S.



PLAN



ELEVATION

① M.J. GATE VALVE (3" OR LARGER) OR WHEEL VALVE (2" ONLY)
② SPOOLER
③ SOLID SLEEVE (3" & LARGER) OR DRESSER COUPLING (2" ONLY)
④ STRAINER (BY ECUA)
⑤ METER (BY ECUA)
⑥ TEE
⑦ ELBOW 90°
⑧ M.J. GATE VALVE & BOX

METER SIZE	METER BOX (INSIDE DIMENSIONS)	
	A	B
2"	5'6"	4'6"
3"	8'6"	4'6"
4"	9'0"	5'0"
6"	9'0"	6'0"
8"	10'0"	6'0"
10"	10'0"	6'0"

COMPOUND TURBINE METER DETAIL

N.T.S.

PIPE JOINT RESTRAINT TABULATION - WATER MAIN

EVERY JOINT WITHIN THE LENGTH SPECIFIED BELOW (IN FEET) SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING

PIPE SIZE AND TYPE	HORIZONTAL BENDS				DEAD ENDS	EQUAL TEES See note 3
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.		
3" DI	18	8	4	2	33	1
4" DI	22	9	4	2	39	1
6" DI	31	13	6	3	55	1
8" DI	40	17	8	4	72	1
10" DI	48	20	9	5	86	1
12" DI	56	23	11	5	101	1
16" DI	70	29	14	7	129	1
20" DI	84	35	17	8	156	18
24" DI	96	40	19	9	181	41
4" PVC	28	12	6	3	62	1
6" PVC	39	16	8	4	87	1
8" PVC	50	21	10	5	114	1
10" PVC	60	25	12	6	136	1
12" PVC	70	29	14	7	160	1
16" PVC	88	36	17	9	205	1
20" PVC	105	43	21	10	247	29
24" PVC	120	50	24	12	287	64

NOTES :
1. Test pressure = 150 psi, soil group = SM, trench type = 3, depth = 2.5', safety factor = 2
2. Restrained lengths for vertical offsets, reducers & unequal size tees must be individually calculated.
3. With equal tees, the distances shown are with a run length of 40' as an example only. For other lengths and for unequal tees, individual calculations must be made.

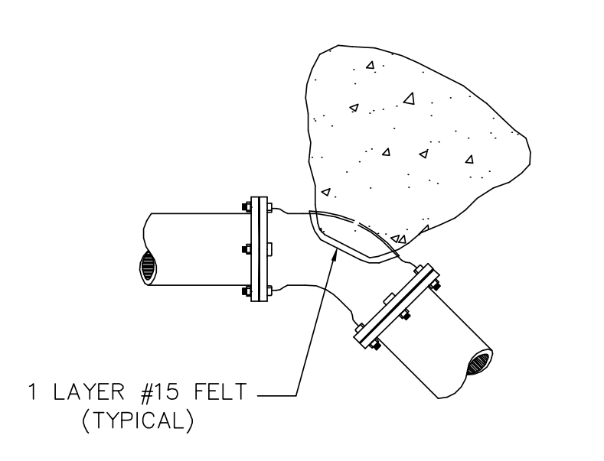
PIPE JOINT RESTRAINT TABULATION

N.T.S.

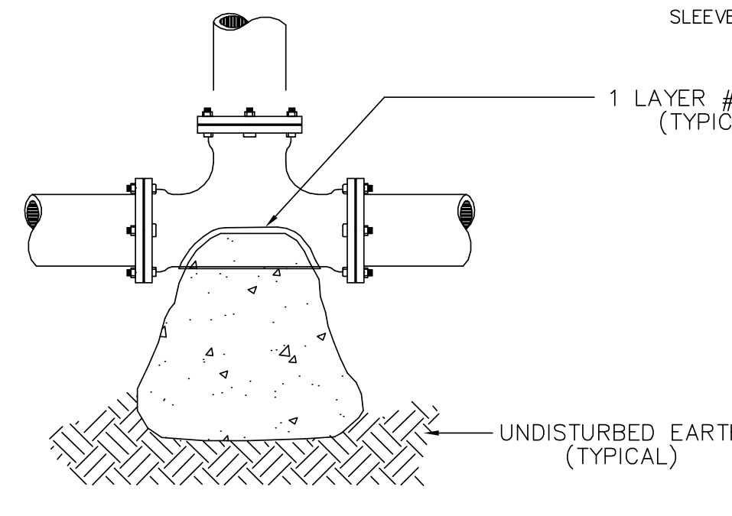
MINIMUM THRUST BLOCK DIMENSIONS:
SURFACE AREA AGAINST UNDISTURBED SOIL

FITTING / PIPE SIZE	DEAD END OR TEE	90° BEND	45° BEND	22.5° BEND
4"	1' X 2'	1.5' X 1.5'	1' X 1.5'	1' X 1'
6"	2' X 2'	2.5' X 2.5'	2' X 1.5'	1' X 1.5'
8"	2.25' X 3'	3' X 3'	2' X 2.5'	1.5' X 1.5'
10"	3.5' X 3'	4' X 3.75'	2.75' X 3'	2' X 2'
12"	4' X 4'	4' X 5'	3' X 4'	2' X 3'
16"	5' X 5.5'	6' X 6.5'	4' X 5'	3' X3.5'
18"	7' X 8'	8' X 10'	5' X 6'	4' X 4.5'
24"	7.75' X 8'	9.25' X 9.5'	6.5' X 7'	4.5' X 5.25'

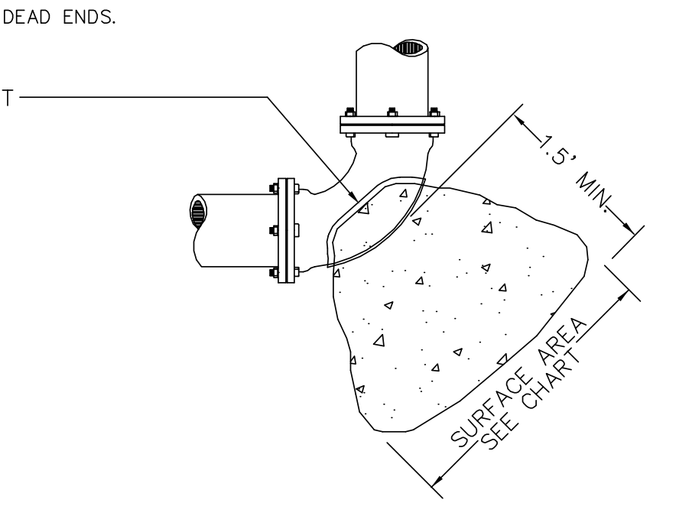
NOTES:
1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
2. ALL THRUST BLOCKS TO BE BACKED AGAINST UNDISTURBED SOIL
3. THRUST BLOCK DIMENSIONS BASED ON SM SOIL CLASSIFICATION
4. CONCRETE MIN. 2,500 PSI.
5. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS, THRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, TEES, TAPPING SLEEVES, AND DEAD ENDS.



45° BEND - M.J.



TEE - M.J.



90° BEND - M.J.

TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.

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PROJECT:
Gulf Breeze Community Center
800 Shoreline Drive
Gulf Breeze, Fl 32561

SHEET TITLE:
UTILITY DETAILS

PROJECT NO: 2010.071
FILE NO:
DATE: 05.25.2011
REVISION:
100% SUBMITTAL

SHEET
C4.3