

LINE TABLE		
LINE	LENGTH	BEARING
L1	44.66	S42°40'40"W
L2	23.26	N47°19'20"W
L3	81.32	S42°57'13"W
L4	23.65	S47°19'19"E
L5	20.00	S42°40'41"W
L6	34.93	S42°57'13"W
L7	156.85	S47°19'19"E
L8	67.41	S42°40'41"W
L9	16.06	N52°19'17"W
L10	11.04	N52°19'17"W
L11	19.07	N52°19'17"W
L12	102.84	S42°40'41"W
L13	21.21	S02°19'19"E
L14	294.50	S47°19'19"E
L15	145.22	S42°40'41"W
L16	32.09	N47°19'22"W
L17	95.00	S47°19'19"E
L18	32.04	S63°35'22"W
L19	70.00	S42°40'41"W
L20	36.00	N47°19'19"W
L21	70.00	N42°40'41"E
L22	36.00	S47°19'19"E
L23	86.42	S42°57'13"W
L24	38.00	S47°19'19"E
L25	53.25	N84°07'27"E

LOT 2 W.C. ALEXANDER DIVISION
S AND F1 PROPERTIES, LLC
PARCEL ID # R03600-004-007-000
MAP BOOK 25 PAGE 174
DEED BOOK 5963 PAGE 800
7755 MARKET STREET

GRID COORDINATES
N 197437.17
E 2360912.17

SITE DATA FOR EXISTING ADJACENT SITE

PARCEL ID: R03600-004-008-000
CURRENT ZONING: O & I (CUD) / SHOD
CAMA LAND USE CLASSIFICATION: TRANSITION
PROJECT ADDRESS: 7775 MARKET ST
WILMINGTON, NC 28411
CURRENT OWNER: FUR FLYING REALTY TRUST
WILMINGTON, NC
TOTAL ACREAGE IN PROJECT BOUNDARY 36.898 SF (±0.85 ac.)
EXISTING IMPERVIOUS AREAS ON EXISTING ADJACENT SITE:
BUILDINGS 4,252 S.F.
ASPHALT 6,175 S.F.
TOTAL: 12,265 S.F.
EXISTING IMPERVIOUS AREAS ON EXISTING ADJACENT SITE TO BE REMOVED:
ASPHALT 860 S.F.

SITE DATA

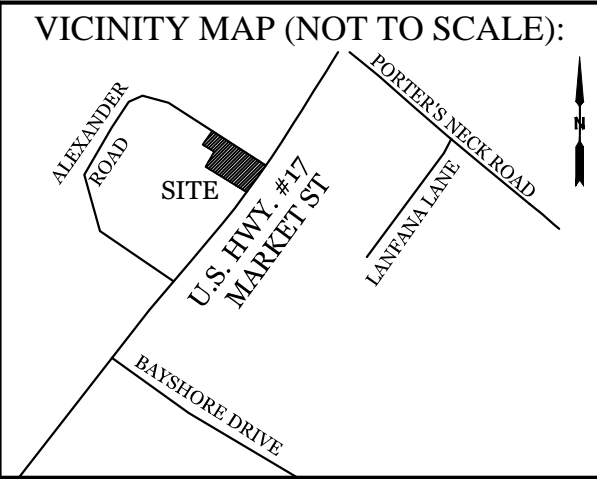
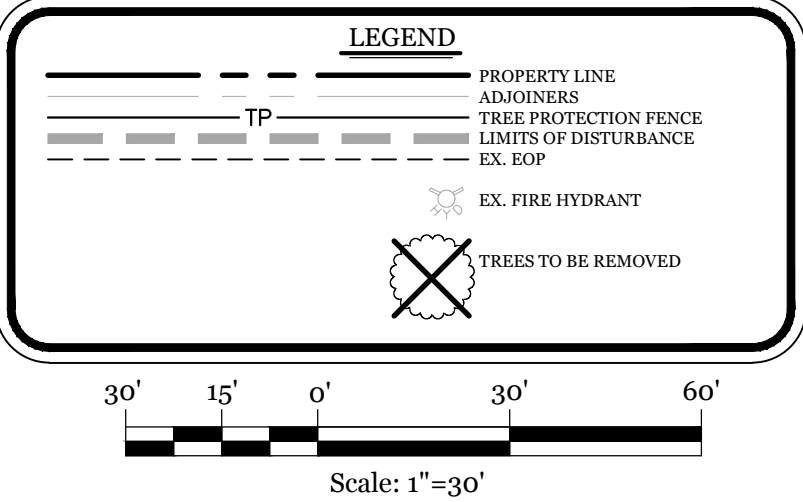
PARCEL ID: R03600-004-025-000
CURRENT ZONING: O & I (CUD) / SHOD
CAMA LAND USE CLASSIFICATION: TRANSITION
PROJECT ADDRESS: 7775 MARKET ST
WILMINGTON, NC 28411
CURRENT OWNER: WBP LLC
6002 MEADOW RUN COURT
CHAPEL HILL, NC 27516
TOTAL ACREAGE IN PROJECT BOUNDARY 100,187 SF (±2.3 ac.)
EXISTING ONSITE IMPERVIOUS AREAS ON EXISTING ADJACENT SITE:
BUILDINGS 4,252 S.F.
ASPHALT 6,175 S.F.
TOTAL: 12,265 S.F.
EXISTING ONSITE IMPERVIOUS AREAS TO BE REMOVED:
CONCRETE 1,214 S.F.
GRAVEL 1,041 S.F.
ASPHALT 6,985 S.F.
TOTAL: 9,240 S.F.
SOILS TYPE: Kr (Kureb sand) 100.0%

- NOTES:
- EXISTING SURVEY DATA PROVIDED BY DANDFORD & ASSOCIATES.
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, A CONSTRUCTION ENTRANCE AND SILT FENCING SHALL BE INSTALLED.

- TREE PRESERVATION NOTES:
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, APPROVED TREE PROTECTION FENCING, SUCH AS SAFETY BARRIER FENCING, A WOODEN SLAT SNOW FENCE OR WIRE FENCE, SHALL BE INSTALLED AROUND PROTECTED TREES OR TREE STANDS LOCATED IN CONSTRUCTION AREAS OR OTHER SITE AREAS THAT WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES. THE FENCING SHALL BE A MINIMUM OF FOUR FEET IN HEIGHT AND BE OF DURABLE CONSTRUCTION. TREE PROTECTIVE FENCING SHALL REMAIN IN PLACE THROUGH COMPLETION OF CONSTRUCTION ACTIVITIES.
 - NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - IF AN EXISTING TREE RETAINED TO COMPLY WITH THE STANDARDS OF THIS SECTION IS DESTROYED, SUBSTANTIALLY DAMAGED, OR DIES AS A RESULT OF NEGLIGENCE ON THE PART OF THE PROPERTY OWNER WITHIN THREE YEARS AFTER COMPLETION OF CONSTRUCTION, THEN REPLACEMENT TREES SHALL BE PLANTED ON THE SITE WITH A TOTAL DIAMETER EQUAL TO TWICE THE DIAMETER OF THE RETAINED TREE. A MINIMUM GROWING AREA OF 144 SQUARE FEET SHALL BE PROVIDED FOR EACH REPLACEMENT TREE. IF THE PLANNING DIRECTOR DETERMINES IT IS INFEASIBLE OR FOR REPLACEMENT TREE(S) TO BE ACCOMMODATED ON THE SITE, THEN A PAYMENT MAY BE MADE TO THE COUNTY'S TREE IMPROVEMENT FUND EQUIVALENT TO THE PRICING STANDARDS IN THE COUNTY FEE SCHEDULE.

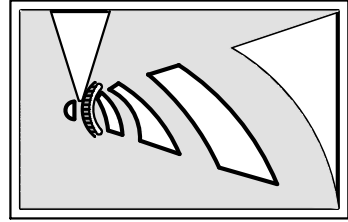
MITIGATION REQUIRED FOR REMOVAL OF SIGNIFICANT TREES

QTY	SIZE	TYPE	REPLACEMENT INCHES
1	24"	PINE	48.00
1	10"	HOLLY	20.00
1	18"	MAG	36.00
1	15"	MAG	30.00
1	12"	MAG	24.00
2	11"	MAG	44.00
4	10"	MAG	80.00
4	9"	MAG	72.00
6	8"	MAG	96.00
TOTAL REPLACEMENT INCHES			450

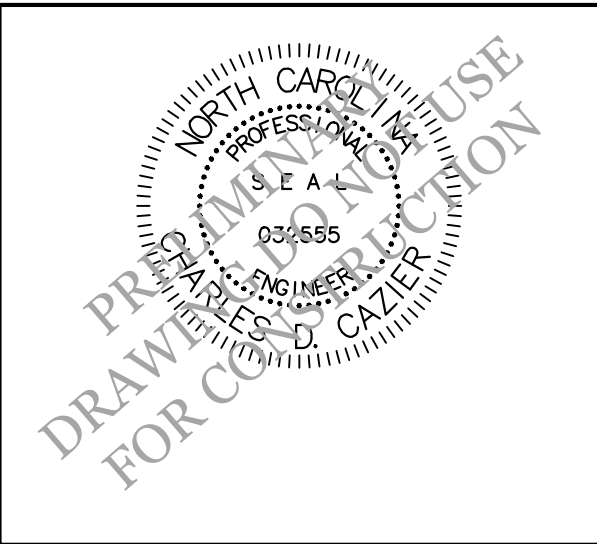


REVISIONS

**INTRACOASTAL
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Email: Charlie@intracoastalengineering.com
License Number: P-0662



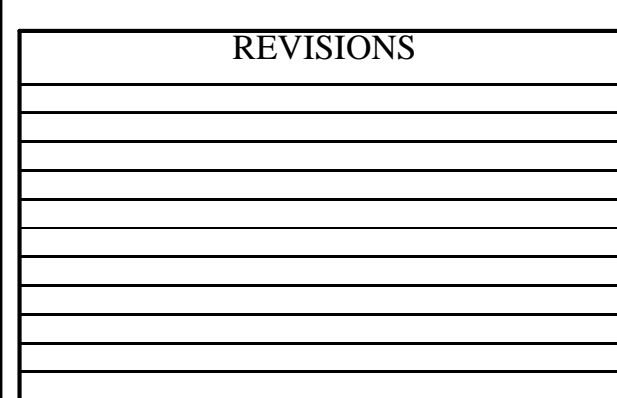
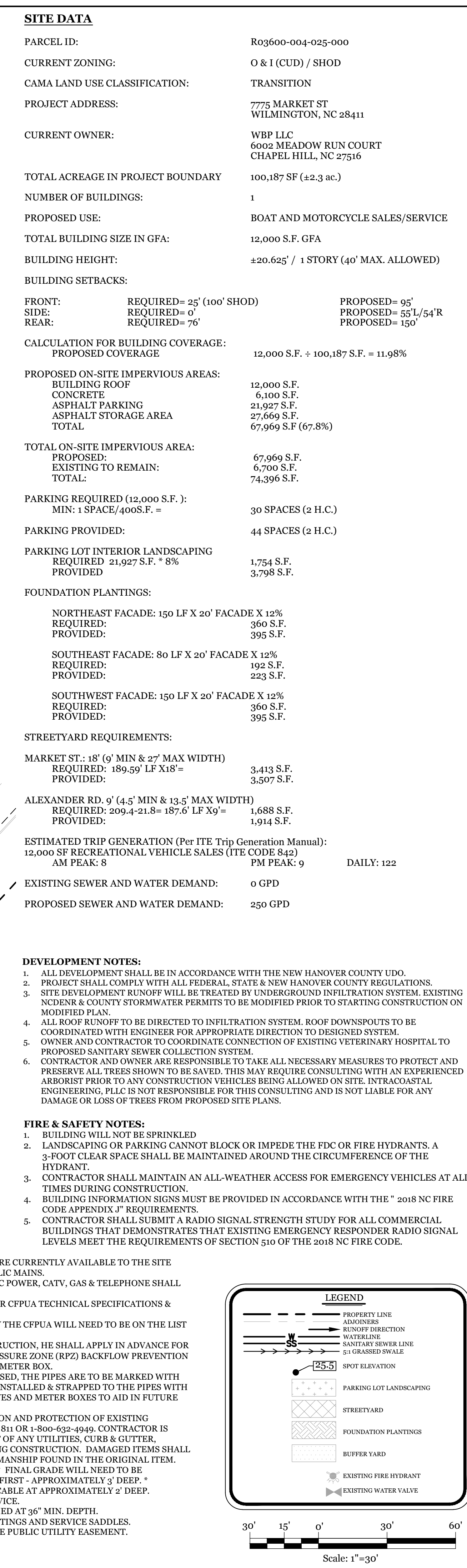
EXISTING CONDITIONS
& TREE REMOVAL PLAN
FOR
**BATTLESHIP CYCLES &
MARINE**
NEW HANOVER COUNTY, NC



CLIENT INFORMATION:
BattleShip Cycles & Marine
8006 Market St.
Wilmington, NC 28411

DRAWN: JAE SHEET SIZE: 24X36
CHECKED: CDC DATE: 3/12/2021
APPROVED: CDC SCALE: 1" = 30'
PROJECT NUMBER: 2020-015

DRAWING NUMBER:
C-0
1 OF 7



**SITE, GRADING, DRAINAGE,
STORMWATER, & UTILITIES
PLAN**

FOR

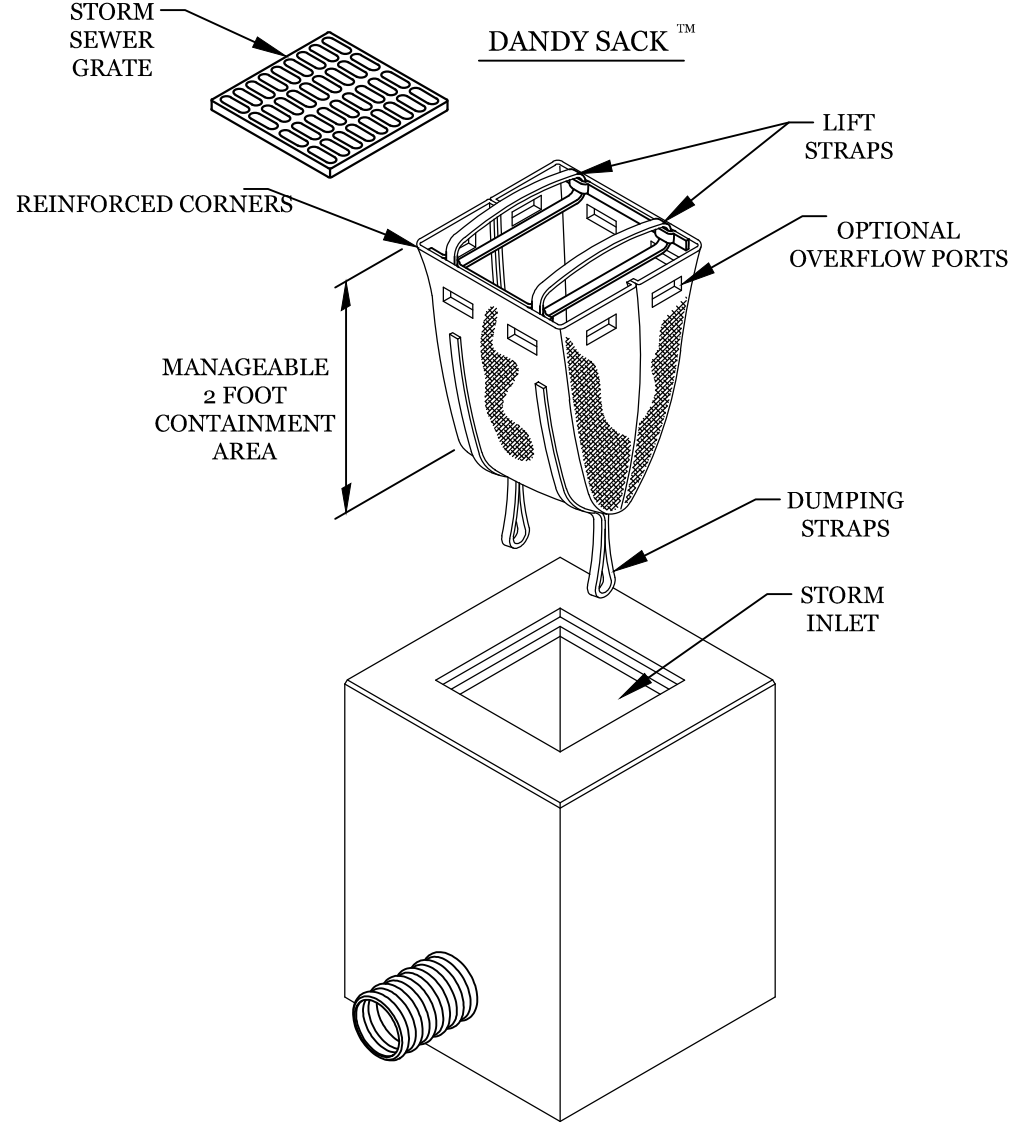
**BATTLESHIP CYCLES &
MARINE**

NEW HANOVER COUNTY, NC

CLIENT INFORMATION:

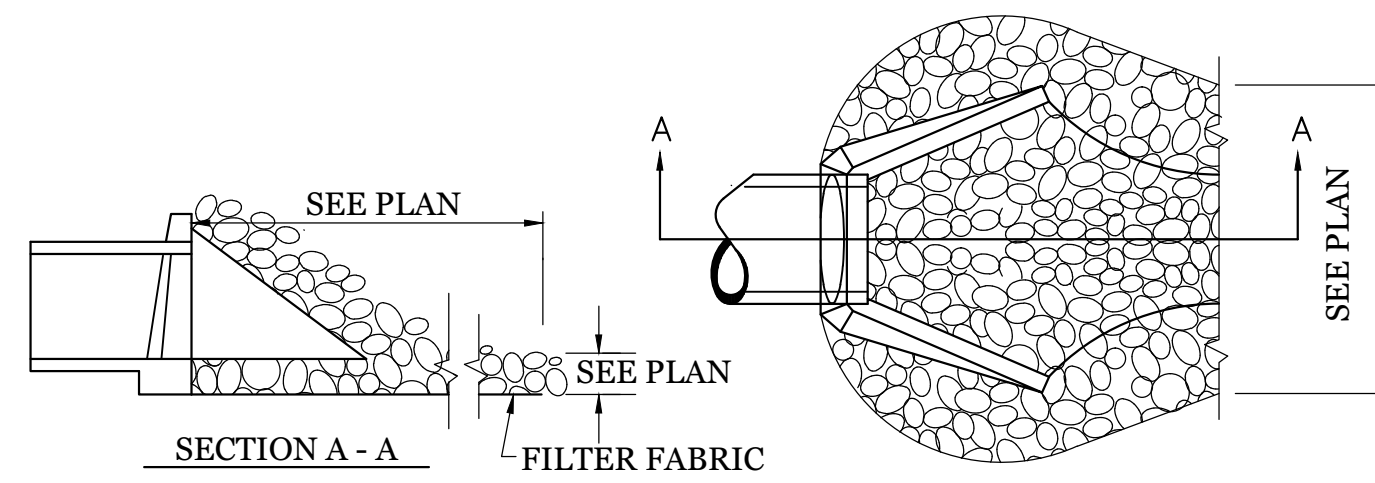
Battleship Cycles & Marine
8006 Market St.
Wilmington, NC 28411

DRAWING NUMBER: C-1



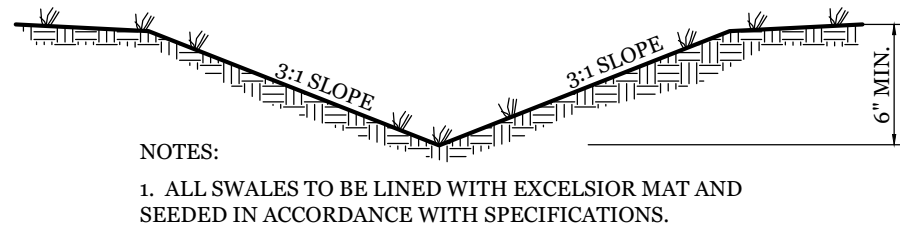
DANDY SACK DETAIL

NTS



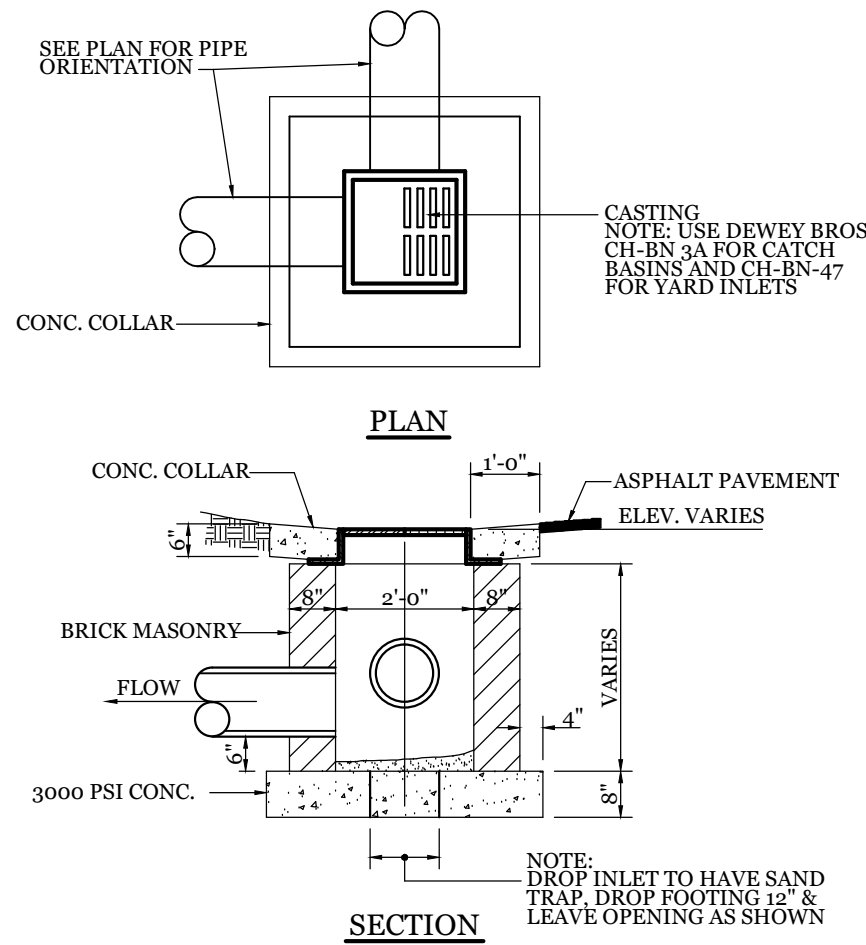
ENERGY DISSIPATOR

NTS



TYPICAL GRASS SWALE

NTS



DROP INLET DETAIL

NTS

CONSTRUCTION SPECIFICATIONS:

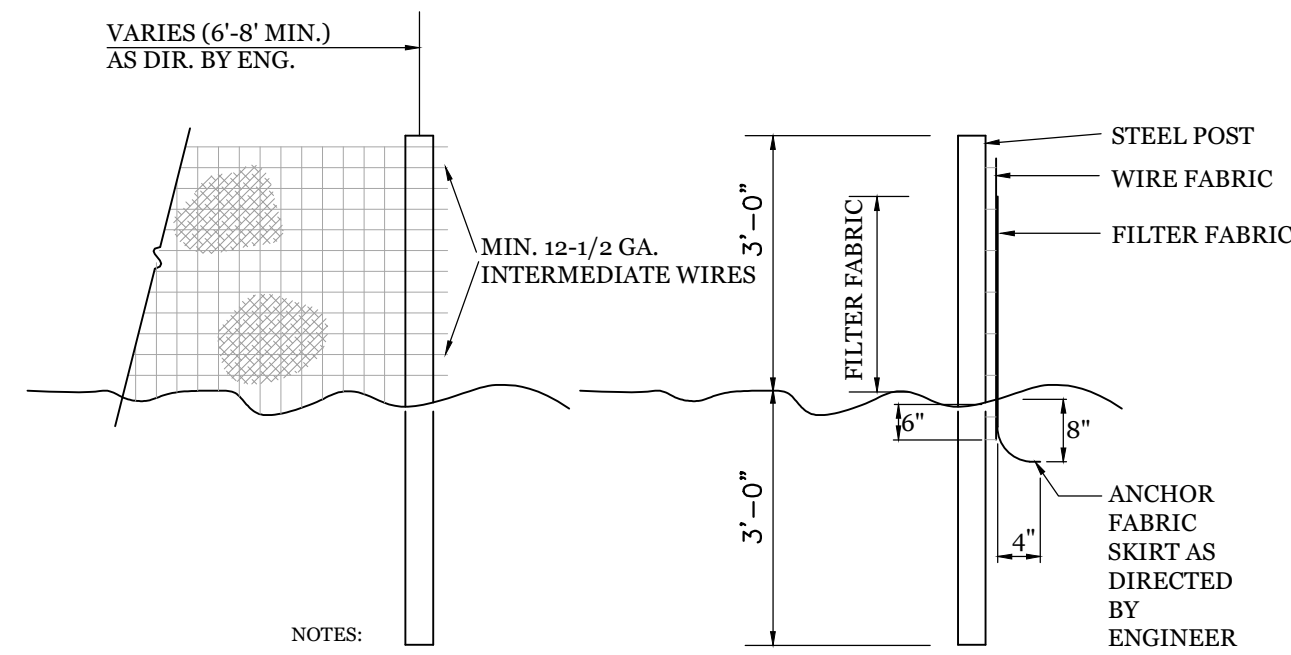
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET. A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

MAINTENANCE:

INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (4 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION

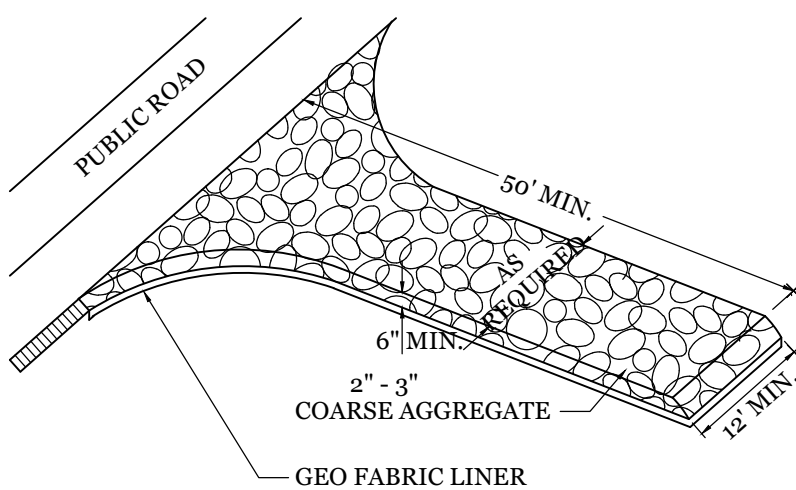
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- NOTES:
1. FENCE FABRIC SHALL BE A MIN. OF 32" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" STAY SPACING.
 2. FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 96" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
 3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

TEMPORARY SILT FENCE

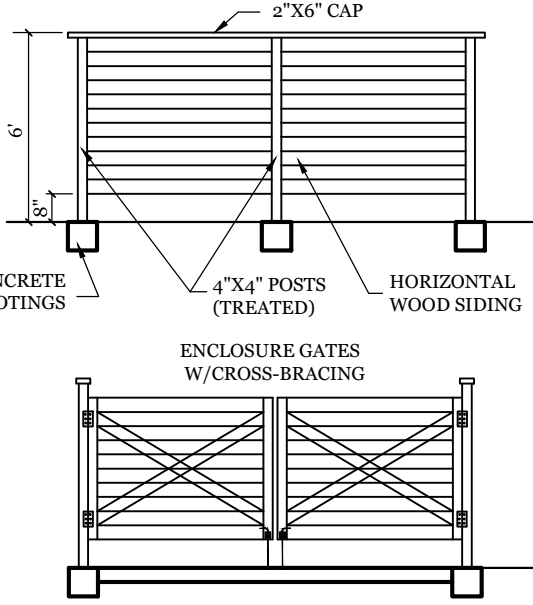
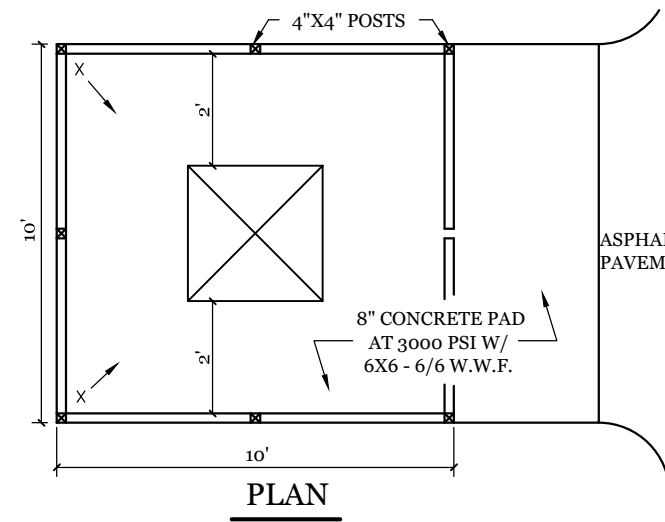
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NOTE: CONSTRUCTION ENTRANCE TO BE 12' OR ENTIRE WIDTH OF ENTRANCE, WHICHEVER IS GREATER.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

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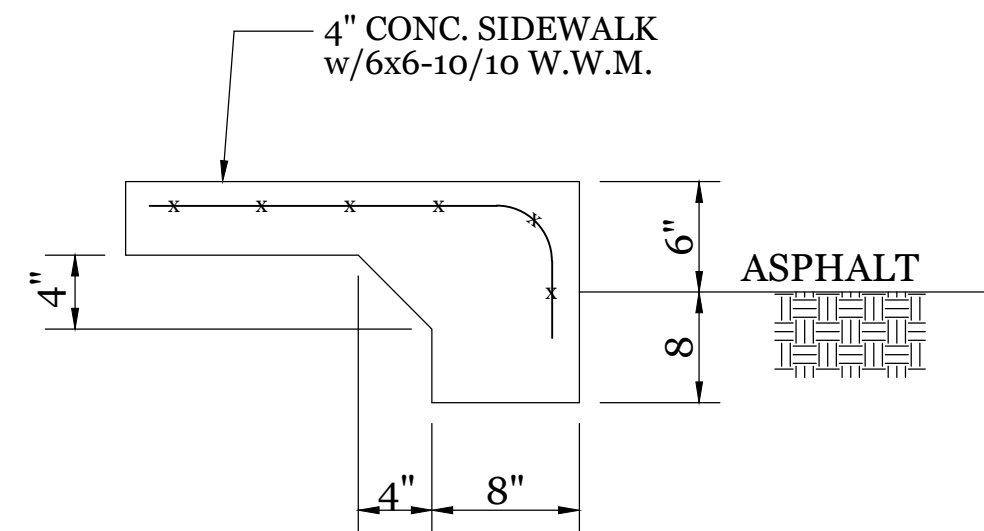


DUMPSTER PAD & ENCLOSURE DETAIL

NTS

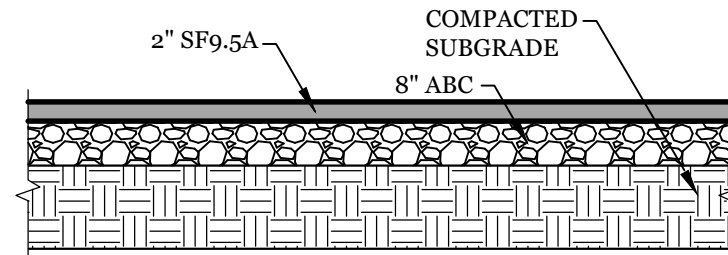
SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
5. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
7. THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
8. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS OR IN ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
14. EXISTING SURVEY DATA PROVIDED BY ESP ASSOCIATES, INC.
15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
16. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
17. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CFPUA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
18. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT CONTRACTORS COST AS NECESSARY.
19. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
20. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
21. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
22. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.



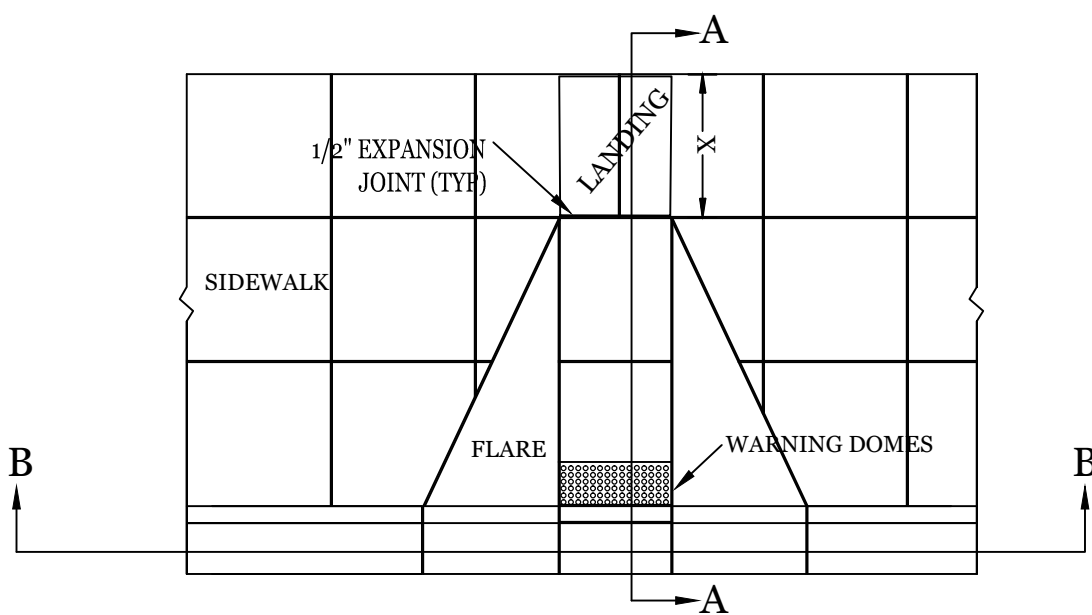
TURNDOWN SIDEWALK

NTS

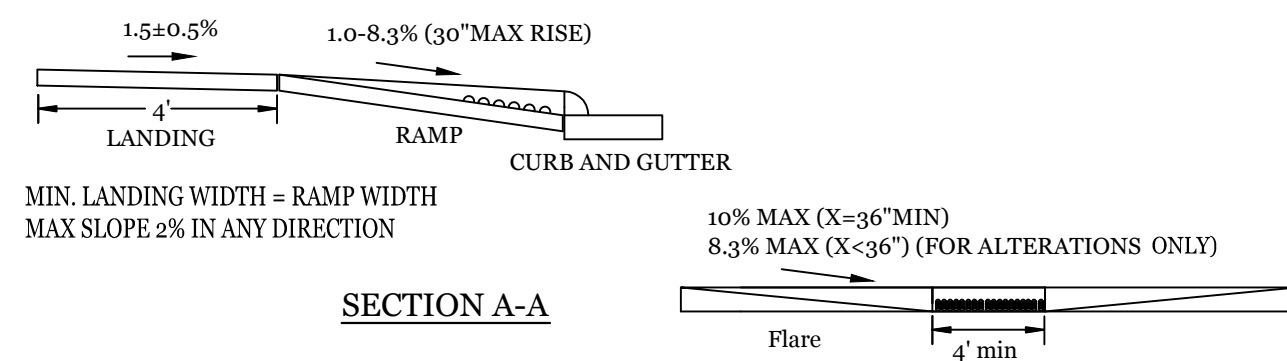


PAVEMENT SECTION

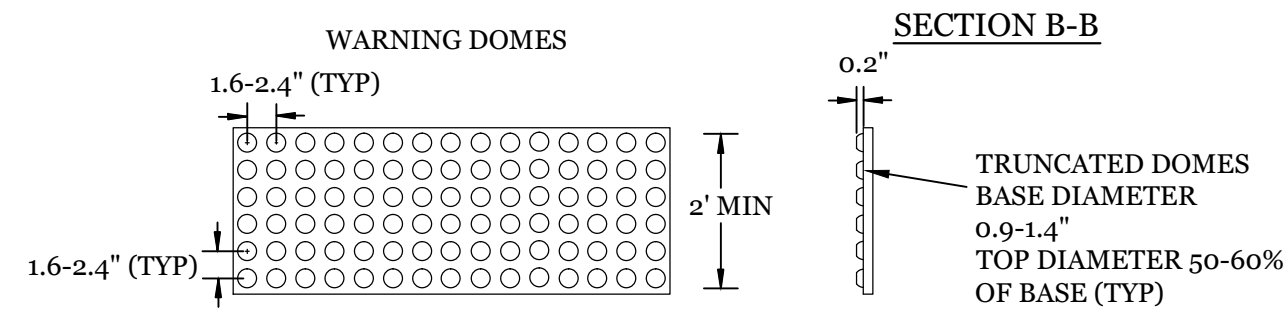
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SECTION A-A



SECTION B-B

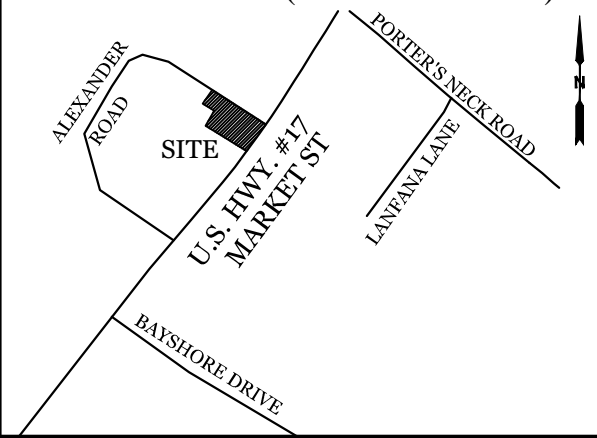


- WARNING DOME NOTES:
1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
 2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
 3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
 4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

WHEEL CHAIR RAMP DETAIL

NTS

VICINITY MAP (NOT TO SCALE):

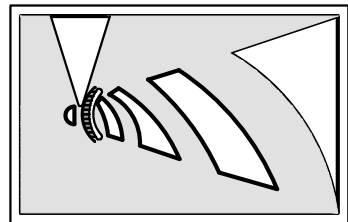


REVISIONS

NO.	DESCRIPTION	DATE

INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662



DETAILS

FOR BATTLESHIP CYCLES & MARINE NEW HANOVER COUNTY, NC



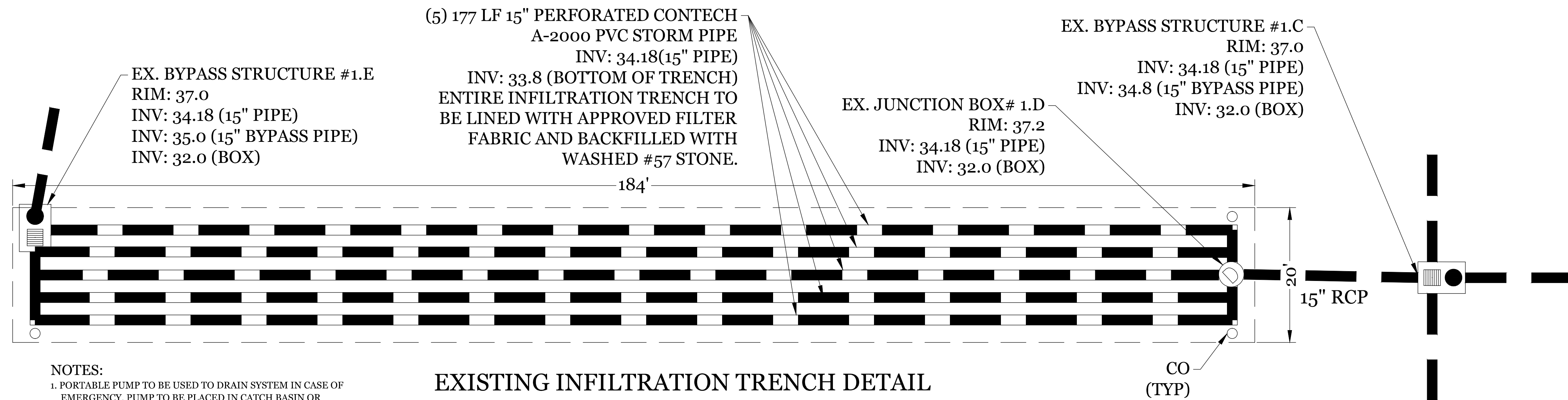
CLIENT INFORMATION:

Battleship Cycles & Marine
8006 Market St.
Wilmington, NC 28411

DRAWN: JAE	SHEET SIZE: 24X36
CHECKED: CDC	DATE: 3/12/2021
APPROVED: CDC	SCALE: NTS
PROJECT NUMBER: 2020-015	

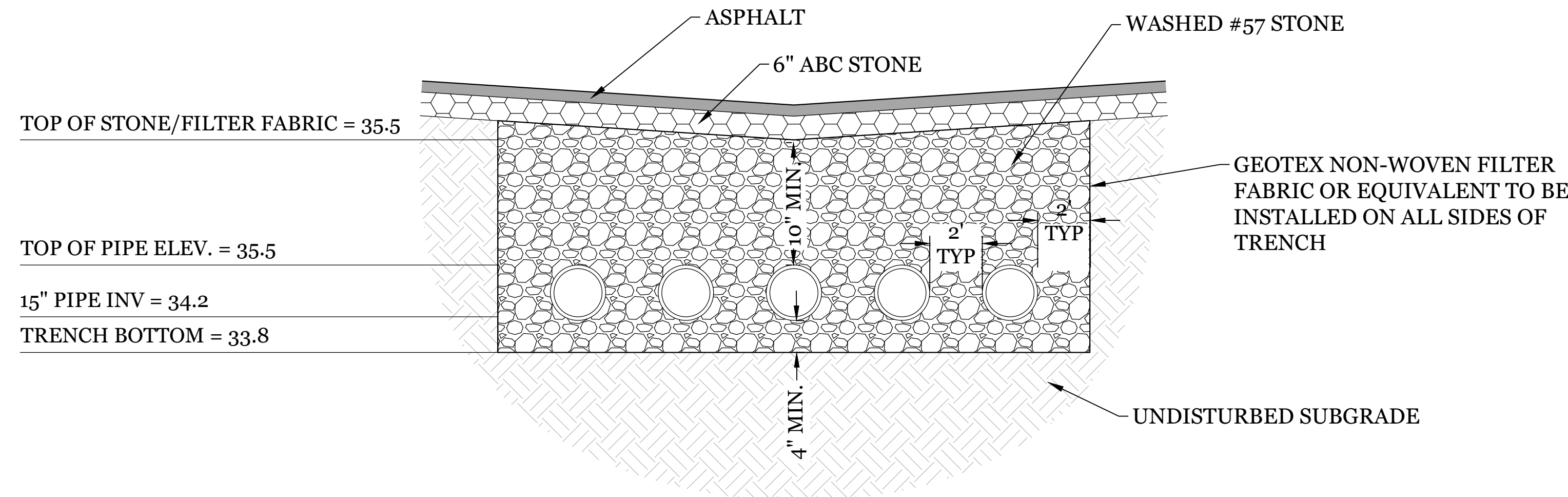
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C-3

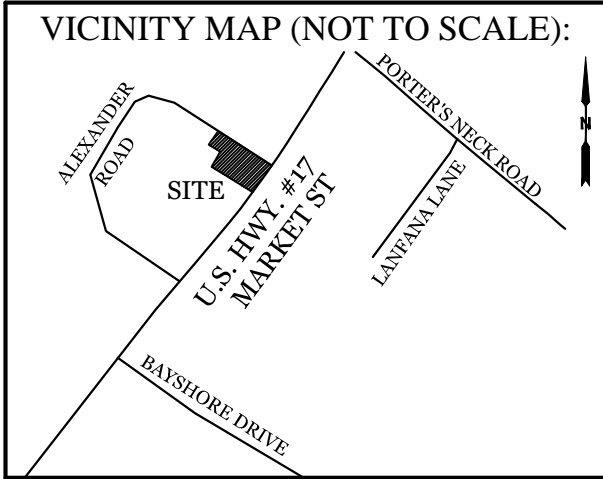


NOTES:
1. PORTABLE PUMP TO BE USED TO DRAIN SYSTEM IN CASE OF EMERGENCY. PUMP TO BE PLACED IN CATCH BASIN OR JUNCTION BOX ATTACHED TO HOSE INLET AND COVERED WITH STONE. HOSE OUTLET TO DRAIN ACROSS STABLE UPLAND AREA SUFFICIENT TO RESTRAIN EROSION.

EXISTING INFILTRATION TRENCH DETAIL
SCALE: 1" = 10'

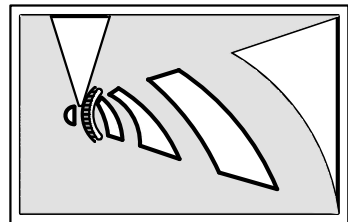


EXISTING INFILTRATION TRENCH CROSS SECTION
NTS

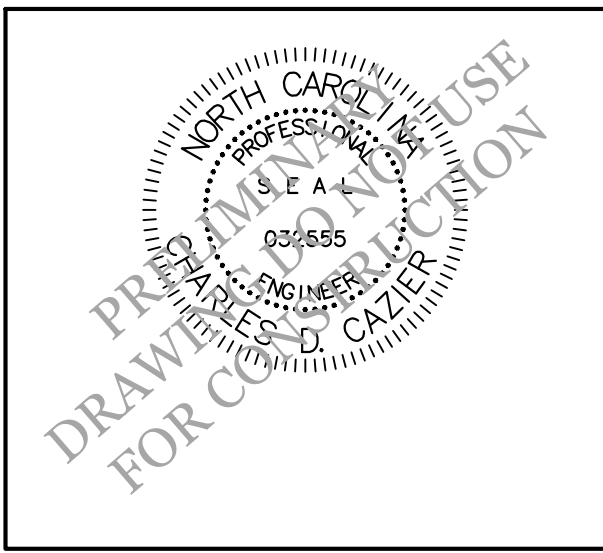


REVISIONS

**INTRACOASTAL
ENGINEERING, PLLC**
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662



**DETAILS
FOR
BATTLESHIP CYCLES &
MARINE
NEW HANOVER COUNTY, NC**

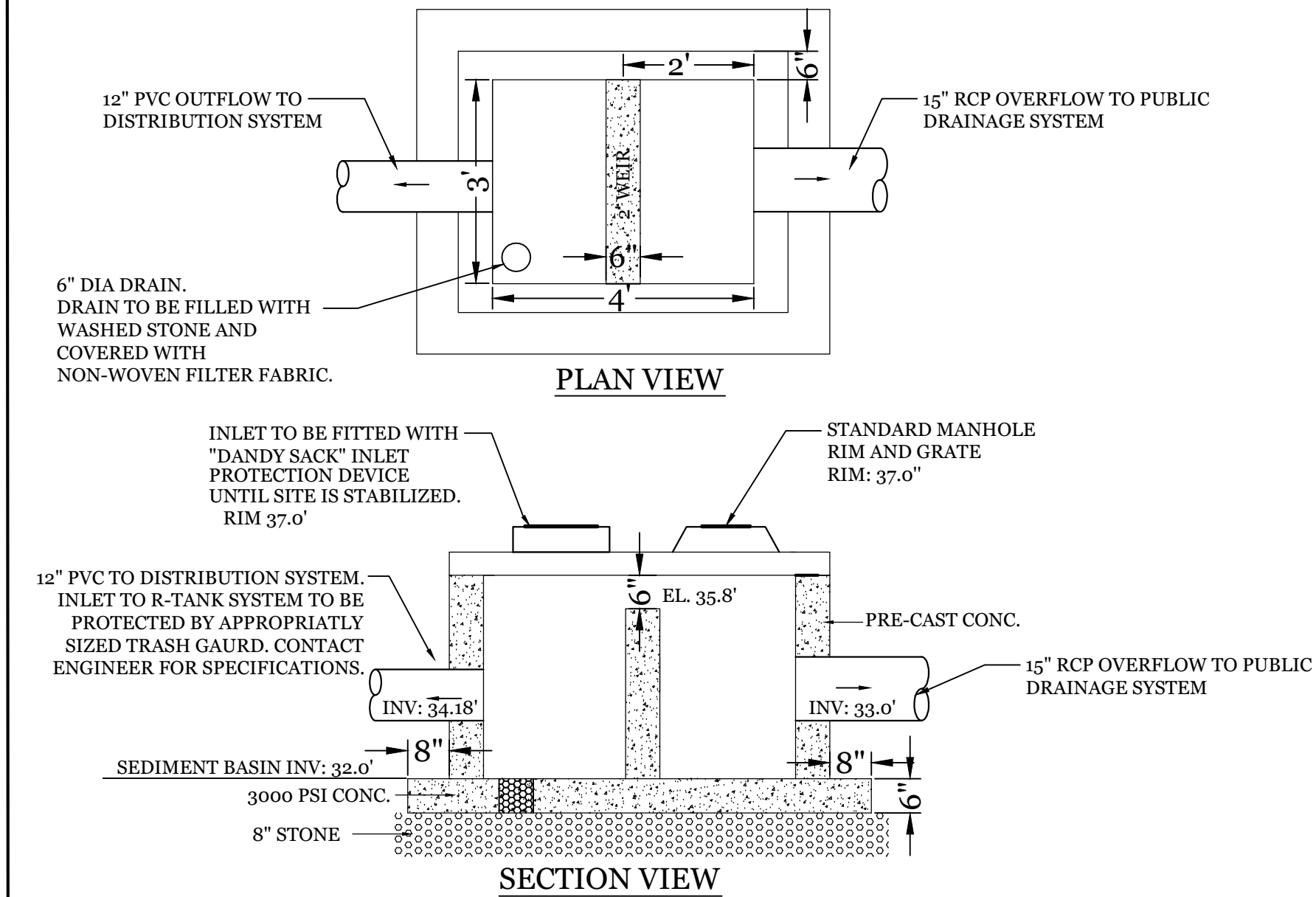
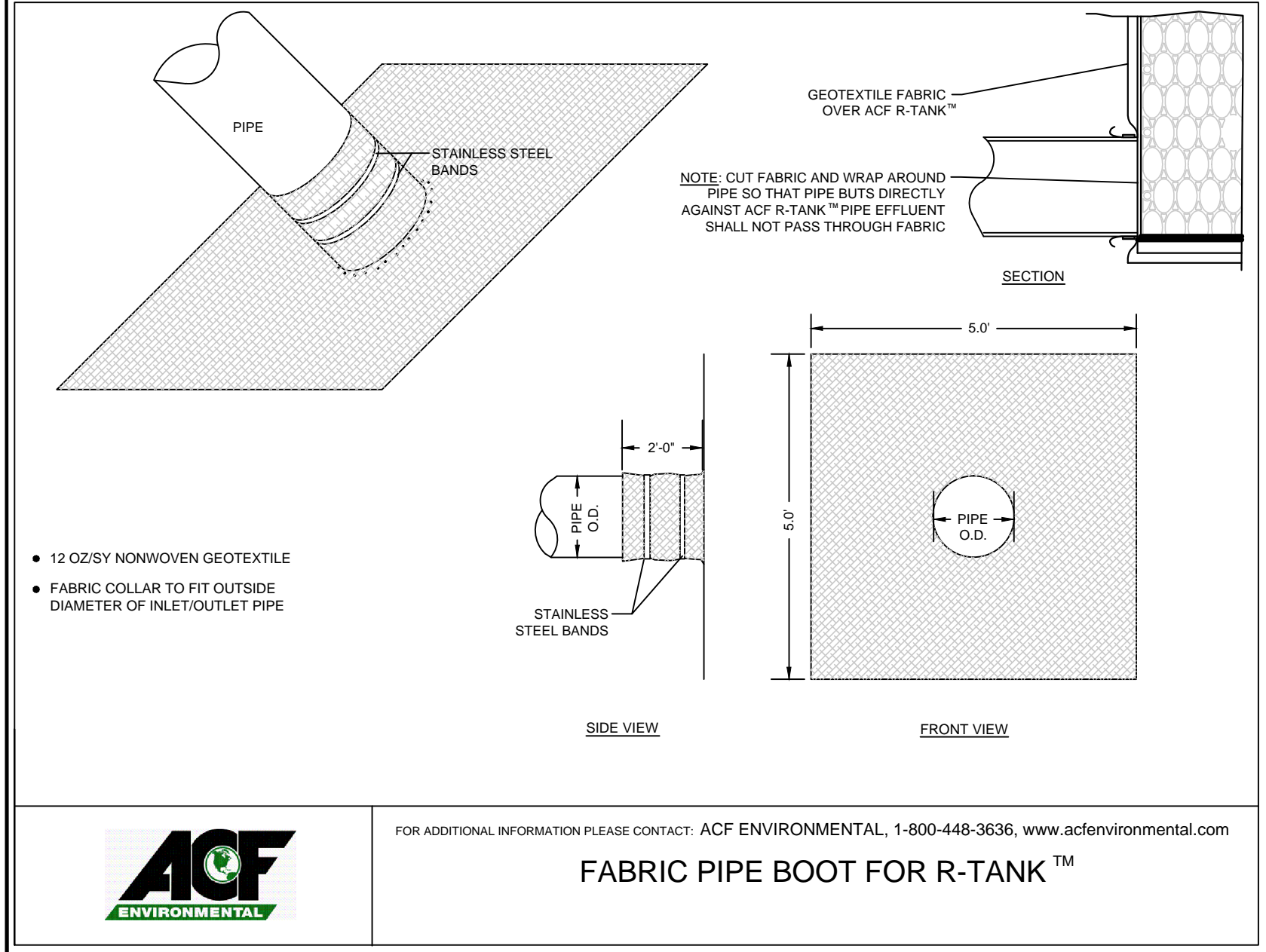
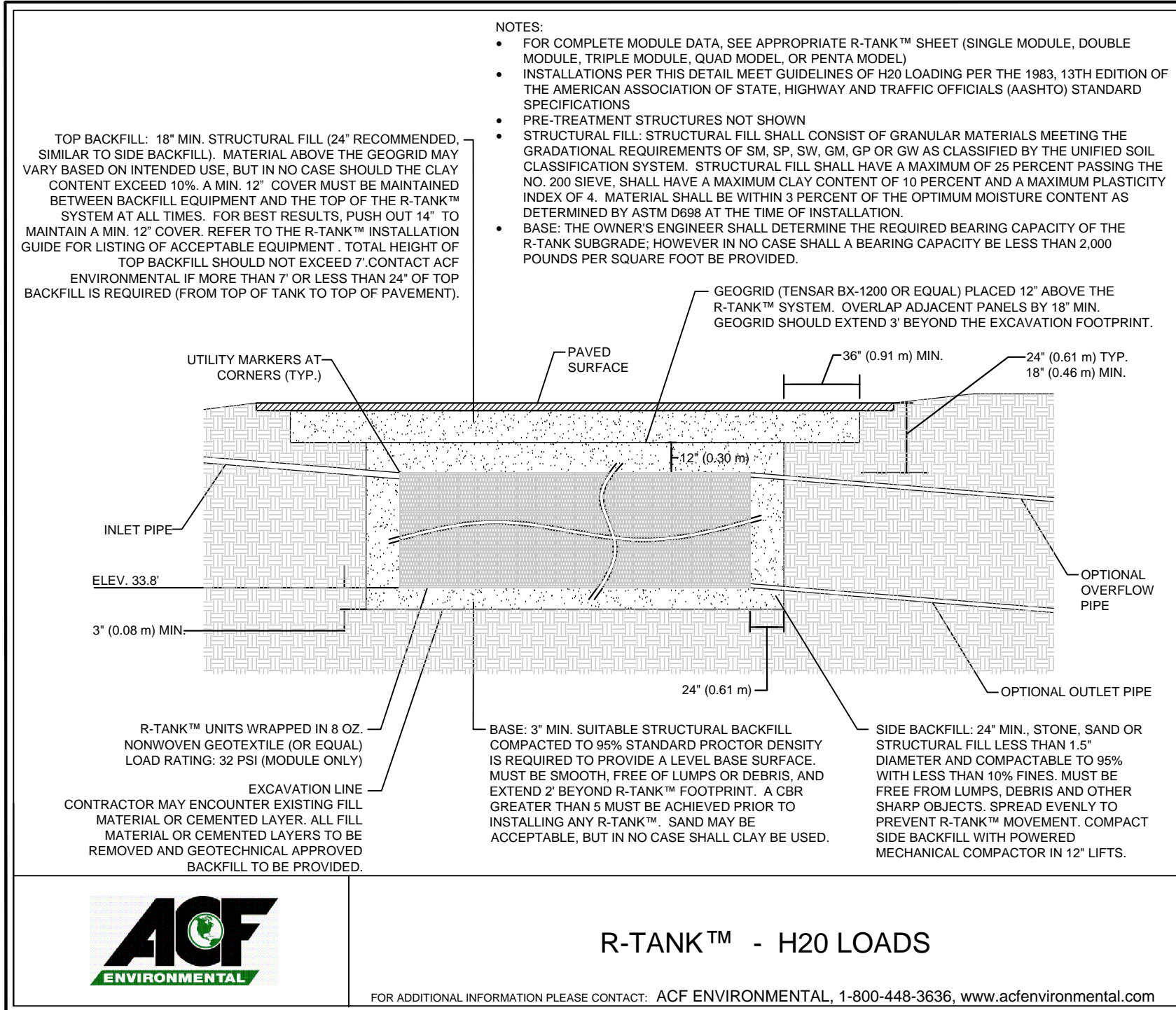


CLIENT INFORMATION:

Battleship Cycles & Marine
8006 Market St.
Wilmington, NC 28411

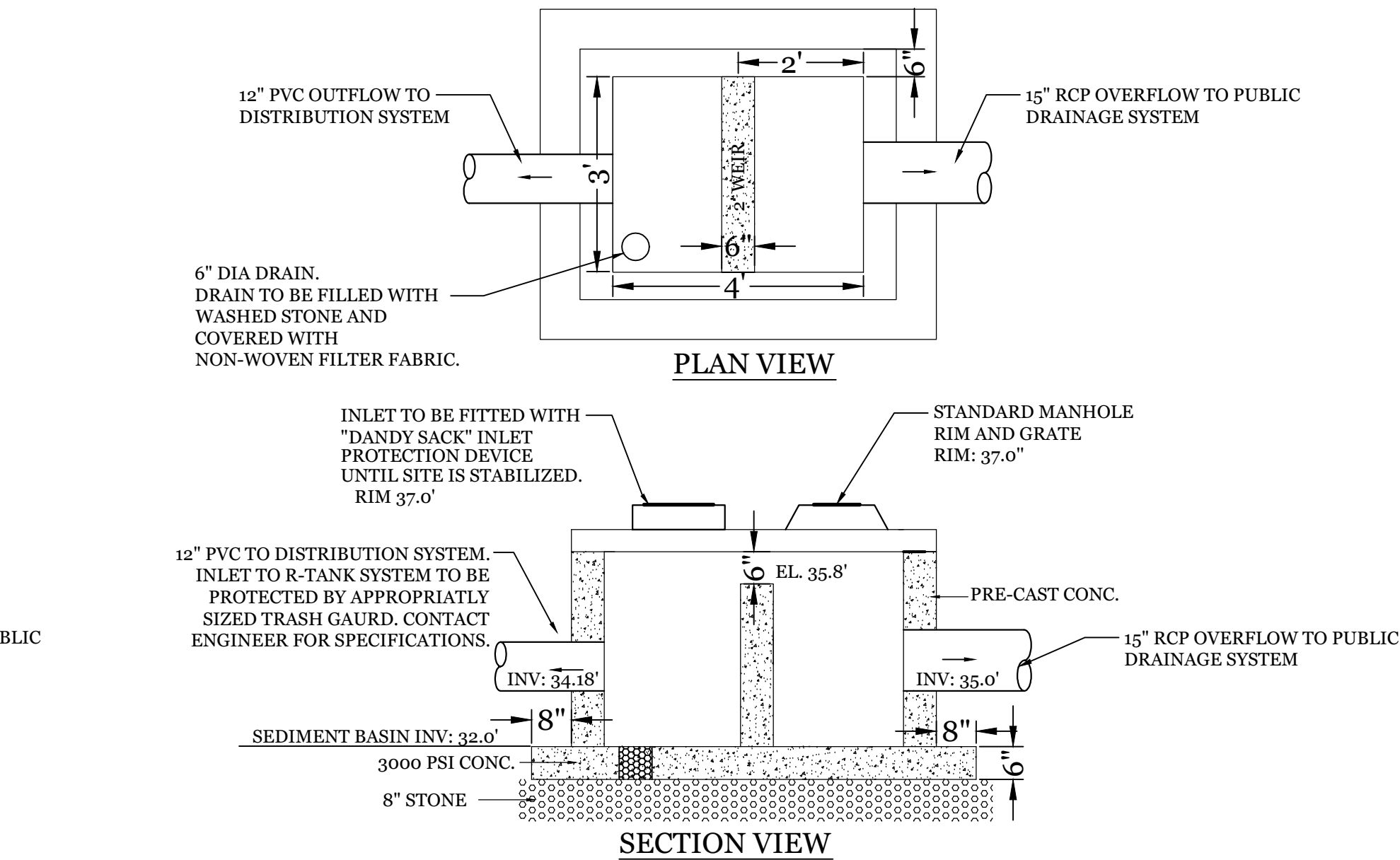
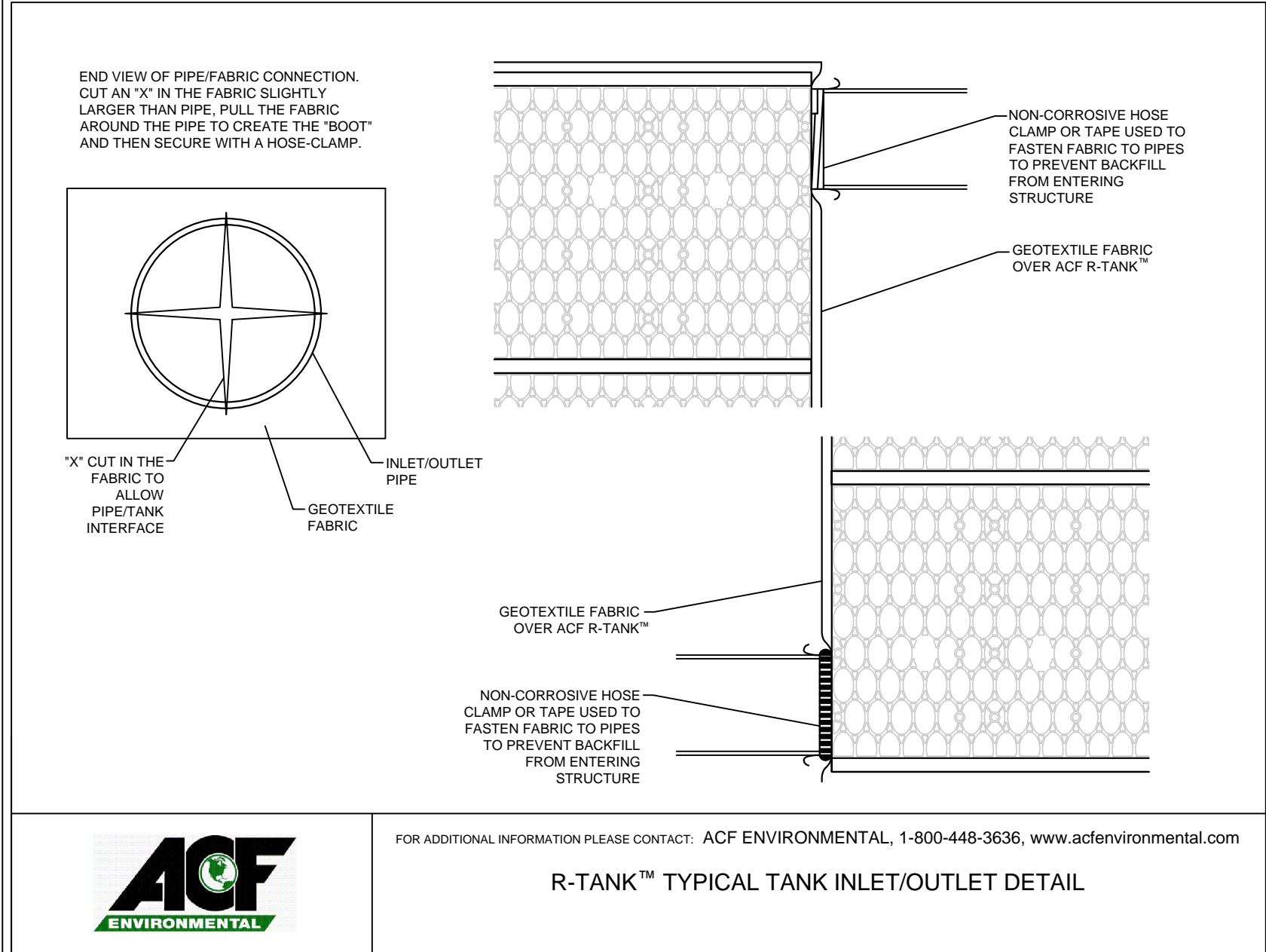
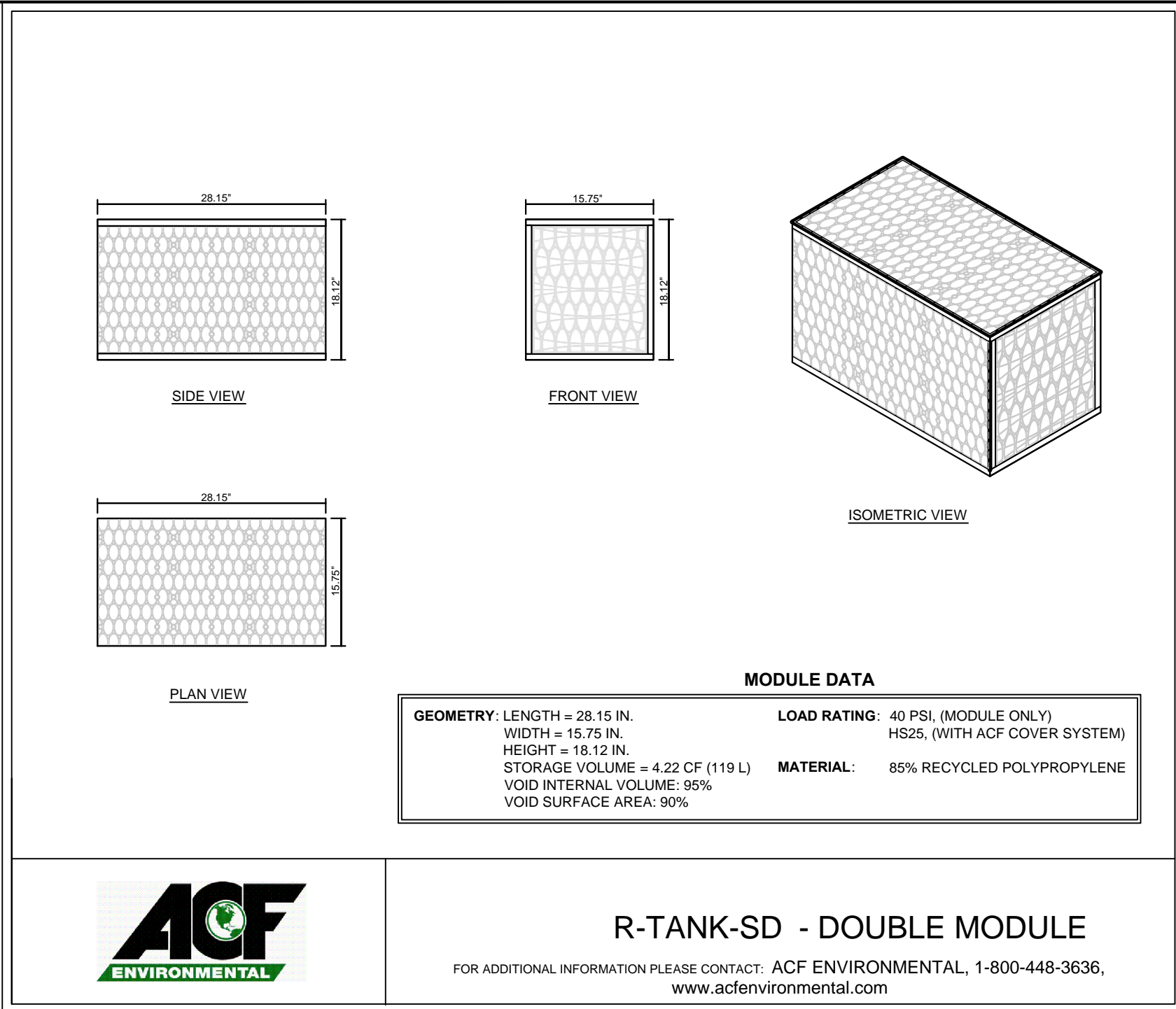
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APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2020-015		

DRAWING NUMBER:
C-4
5 OF 7



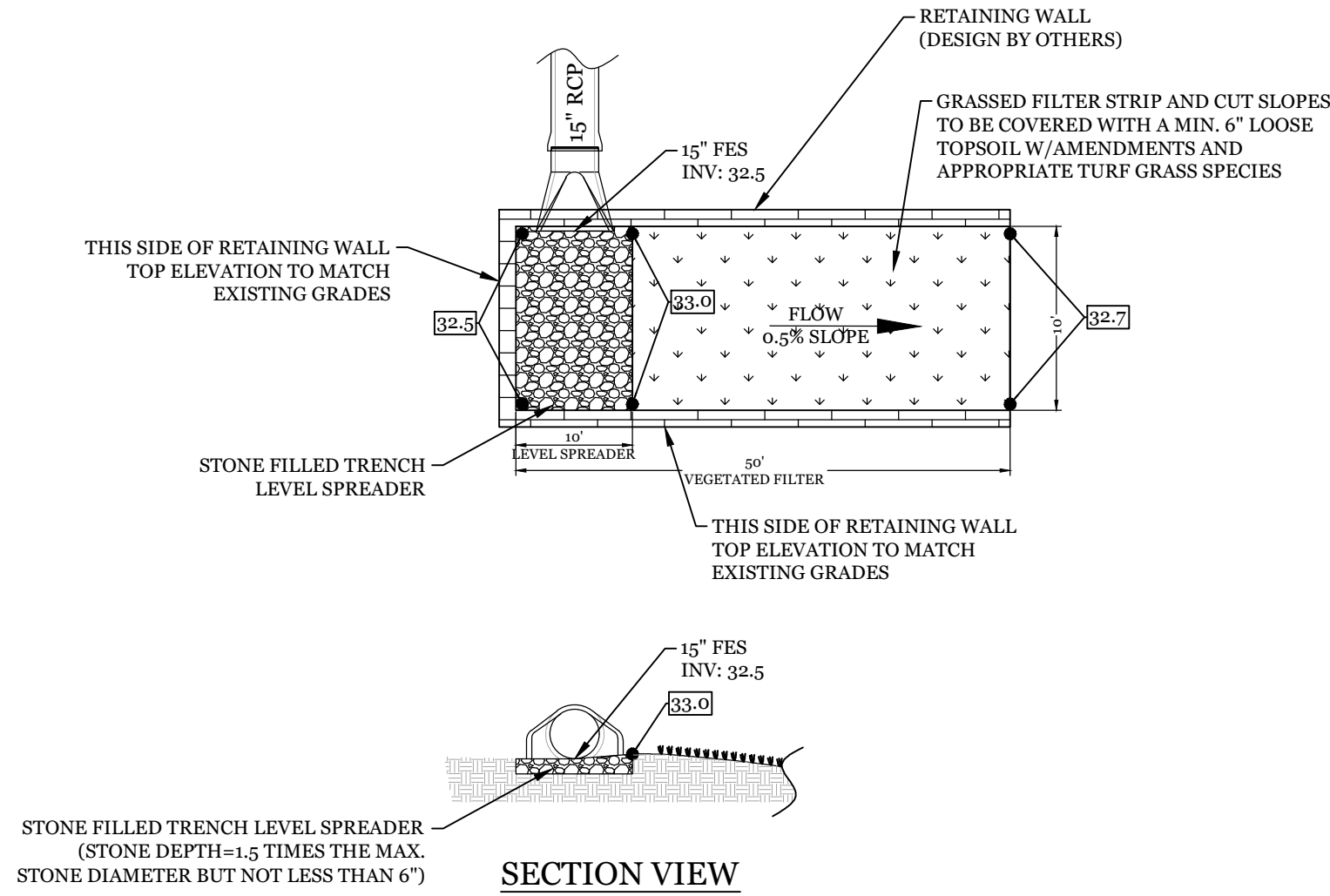
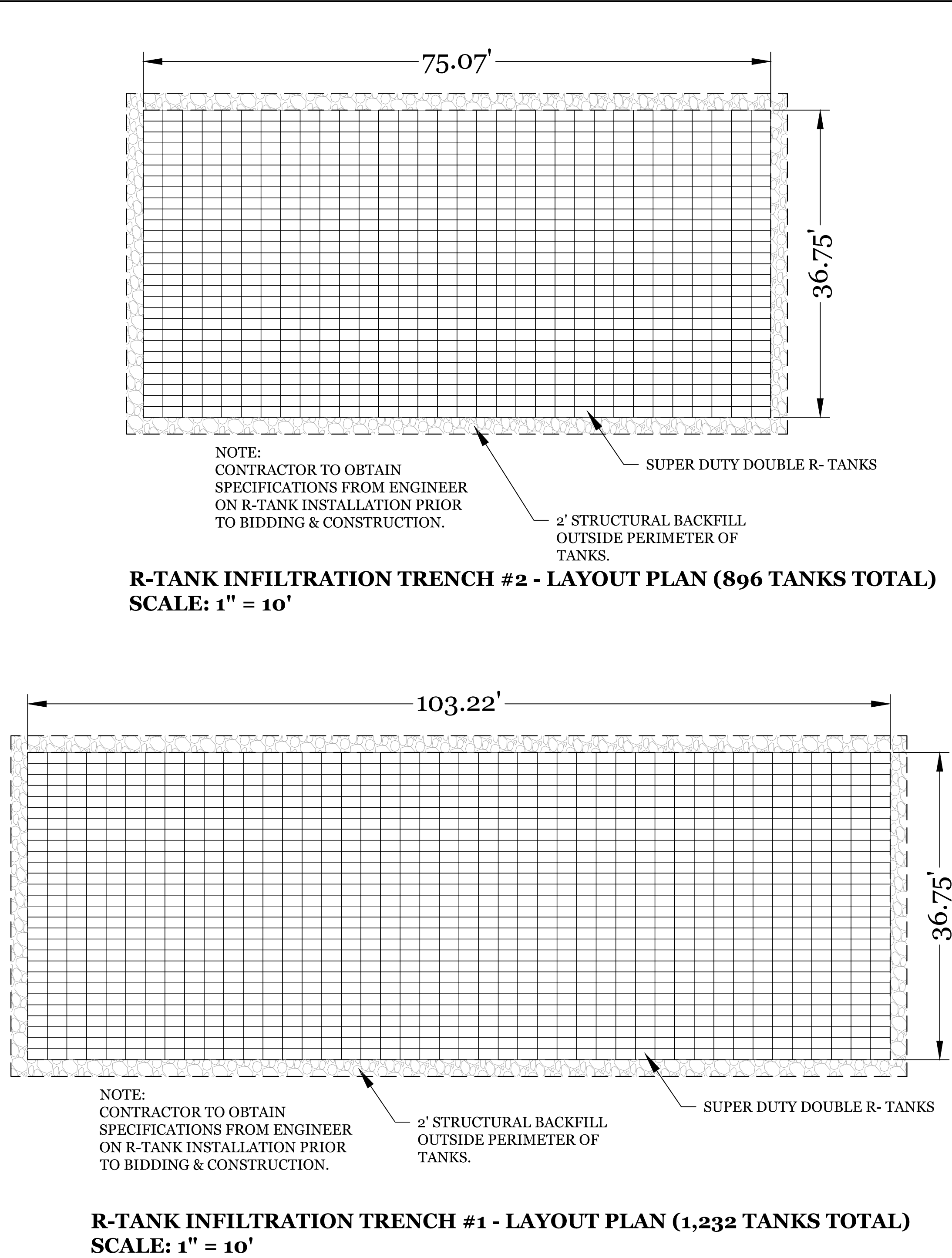
PROPOSED BYPASS STRUCTURE #1

NTS



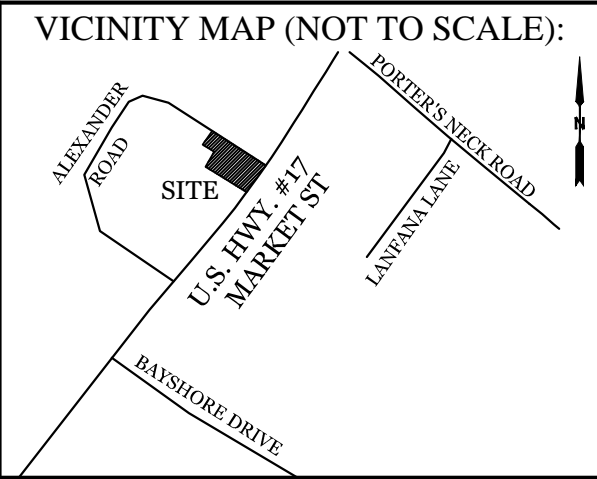
PROPOSED BYPASS STRUCTURE #2

NTS



PROPOSED VEGETATED FILTER/LEVEL SPREADER DETAIL

NTS



REVISIONS

INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662

ACF ENVIRONMENTAL

DETAILS FOR BATTLESHIP CYCLES & MARINE NEW HANOVER COUNTY, NC



CLIENT INFORMATION:

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Wilmington, NC 28411

DRAWN: JAE	SHEET SIZE: 24X36
CHECKED: CDC	DATE: 3/12/2021
APPROVED: CDC	SCALE: NTS
PROJECT NUMBER: 2020-015	

DRAWING NUMBER: C-5

6 OF 7