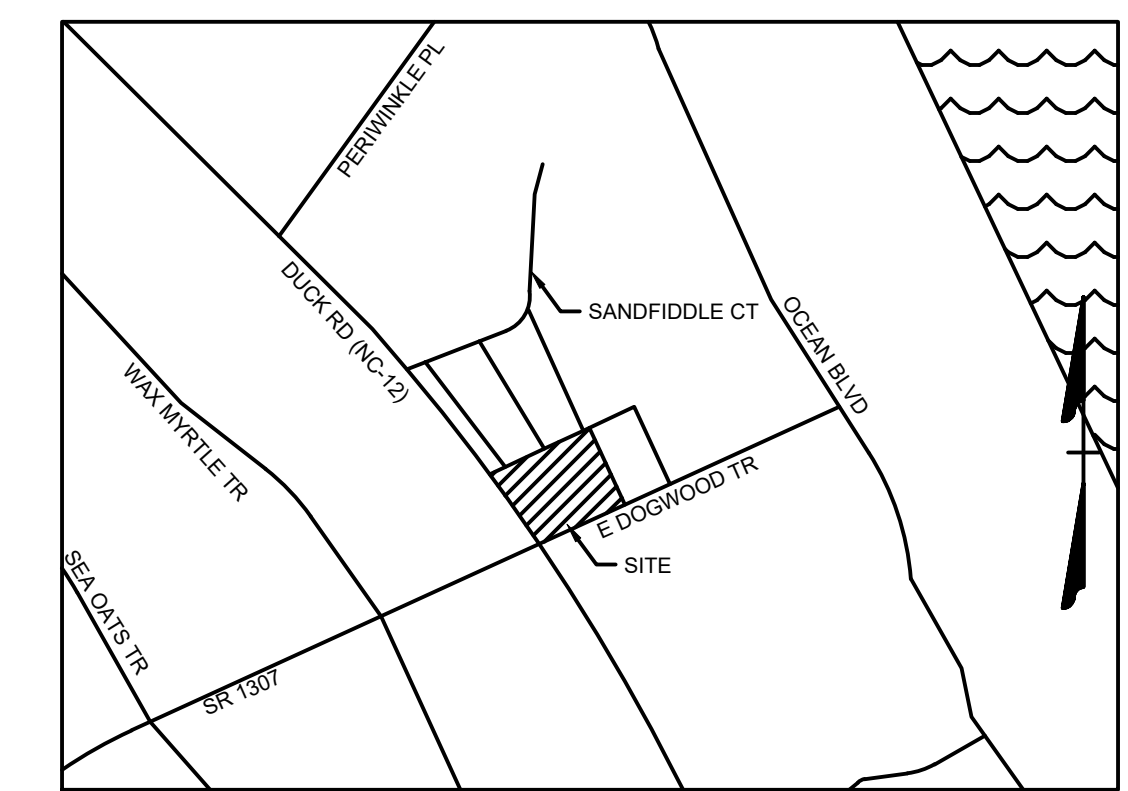


- SITE DATA:
- OWNER:
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27949
 - SITE INFORMATION:
PIN: 8881551684
D.B. 1790, PG. 153
ZONING: COMMERCIAL
SITE AREA: 1.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27949
 - ACCORDING TO FIRM MAP NUMBER 3720968800K, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
 - BUILDING SETBACKS:
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 10'
REAR: 25'
 - IMPERVIOUS AREA CALCULATIONS:

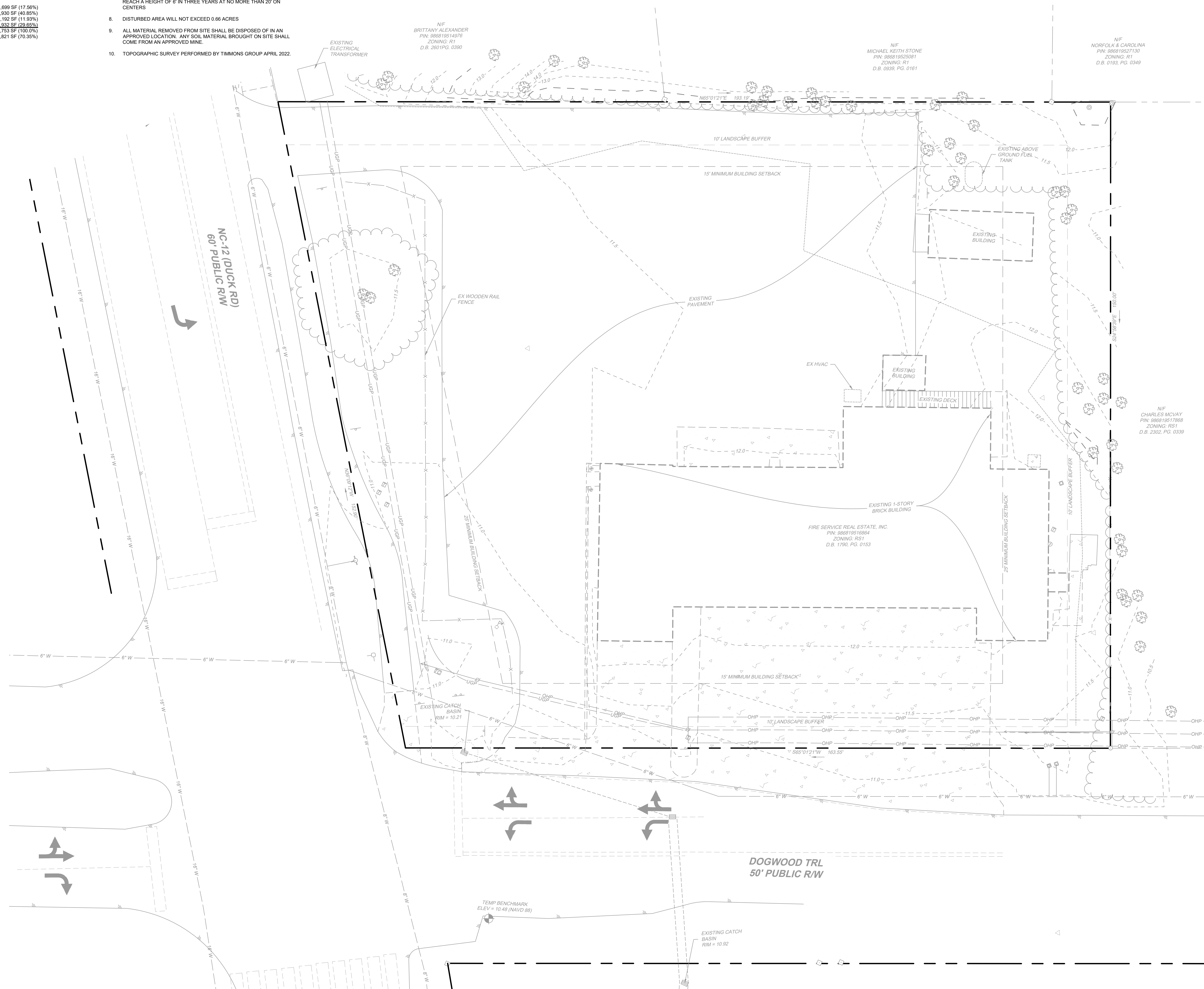
PROPOSED COVERAGE:
BUILDING: 8,906 SF (33.29%)
ASPHALT: 8,126 SF (30.37%)
CONCRETE/SIDEWALK: 1,408 SF (5.28%)
GREEN SPACE: 8,315 SF (31.06%)
TOTAL: 26,753 SF (100.0%)
DECREASE IN IMPERVIOUS AREA: 381 SF

- PARKING:
REQUIRED: ONE SPACE/EMPLOYEE PLUS
ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM.
12 SPACES REQUIRED
PROVIDED: 16 SPACES (INCLUDING 1 ADA)
- TYPE "B" BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL
REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE
HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE
VEGETATION.
- TYPE "C" BUFFER: A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH
A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL
REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON
CENTERS
- DISTURBED AREA WILL NOT EXCEED 0.66 ACRES
- ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN
APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL
COME FROM AN APPROVED MINE.
- TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.

EXISTING COVERAGE:
BUILDING: 4,699 SF (17.56%)
ASPHALT: 10,930 SF (40.85%)
CONCRETE/SIDEWALK: 3,192 SF (11.93%)
GREEN SPACE: 7,932 SF (29.65%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,821 SF (70.35%)



VICINITY MAP
NO SCALE



LEGEND

	BENCHMARK
	EX FIRE HYDRANT
	EX WATER VALVE
	EX WATER METER
	EX SEWER MANHOLE
	EX SEWER CLEANOUT
	EX POWER POLE
	EX GUY ANCHOR
	EX ELECTRIC METER
	EX TELECOM PEDESTAL
	EX SIGN
	EX TREE
	PROP SEWER CLEANOUT
	PROP SEWER MANHOLE
	PROP WATER VALVE
	PROP WATER METER
	PROP FIRE HYDRANT
	PROPERTY BOUNDARY
	RIGHT OF WAY
	SETBACK
	EX EDGE OF PAVEMENT
	EX FENCE
	EX OVERHEAD POWER
	EX 6" WATER LINE
	EX 8" WATER LINE
	EX 16" WATER LINE
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	EX EDGE OF TREE LINE
	PROP FENCE
	PROP MAJOR CONTOUR
	PROP MINOR CONTOUR
	PROP WATER LINE
	PROP SEWER LINE
	PROP FORCE MAIN
	PROP EDGE OF TREE LINE
	PROP DITCH/SWALE
	PROP. LIGHT DUTY PAVEMENT
	PROP. HEAVY DUTY PAVEMENT
	PROP. CONCRETE
	PROP. CONCRETE PAVEMENT

SCALE 1"=10'
0 10' 20'

OAKLEY COLLIER ARCHITECTS
OCA ARCHITECTS
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1111 Haynes Street, Suite 105, Raleigh, NC 27604 (P) 919.965.7700

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ELIZABETH CITY OFFICE
1000 West Cherry Street
Elizabeth City, NC 27949
TEL: 252.333.2878
WWW.TIMMONSGROUP.COM
North Carolina License No. C-1452

NEW BUILDING FOR
**DARE COUNTY
EMS STATION 4**
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



PERMIT
DRAWINGS
NOT FOR
CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions:
#1 2022-09-21 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date	9/14/22	Project No.	52044.004
Drawn By	JBF	Sheet No.	C1.0
Checked By	KDH	Sheet Title	EXISTING CONDITIONS



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SITE DATA:

- OWNER: FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27949
- SITE INFORMATION:
PIN: 886819516864
D.B. 1790, PG. 153
ZONING: COMMERCIAL
SITE AREA: 0.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27949
- ACCORDING TO FIRM MAP NUMBER 372098800K, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
- BUILDING SETBACKS:
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 15'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:

PROPOSED COVERAGE:

BUILDING: 8,006 SF (33.29%)
ASPHALT: 8,126 SF (33.37%)
CONCRETE/SIDEWALK: 1,408 SF (5.26%)
GREEN SPACE: 8,315 SF (31.08%)
TOTAL: 25,755 SF (100.0%)
TOTAL IMPERVIOUS: 18,440 SF (68.93%)
DECREASE IN IMPERVIOUS AREA: 381 SF

6. PARKING:

REQUIRED: ONE SPACE/ EMPLOYEE PLUS
ONE SPACE/ FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM:
12 SPACES REQUIRED

PROVIDED: 16 SPACES (INCLUDING 1 ADA)

7. TYPE "B" BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE VEGETATION.

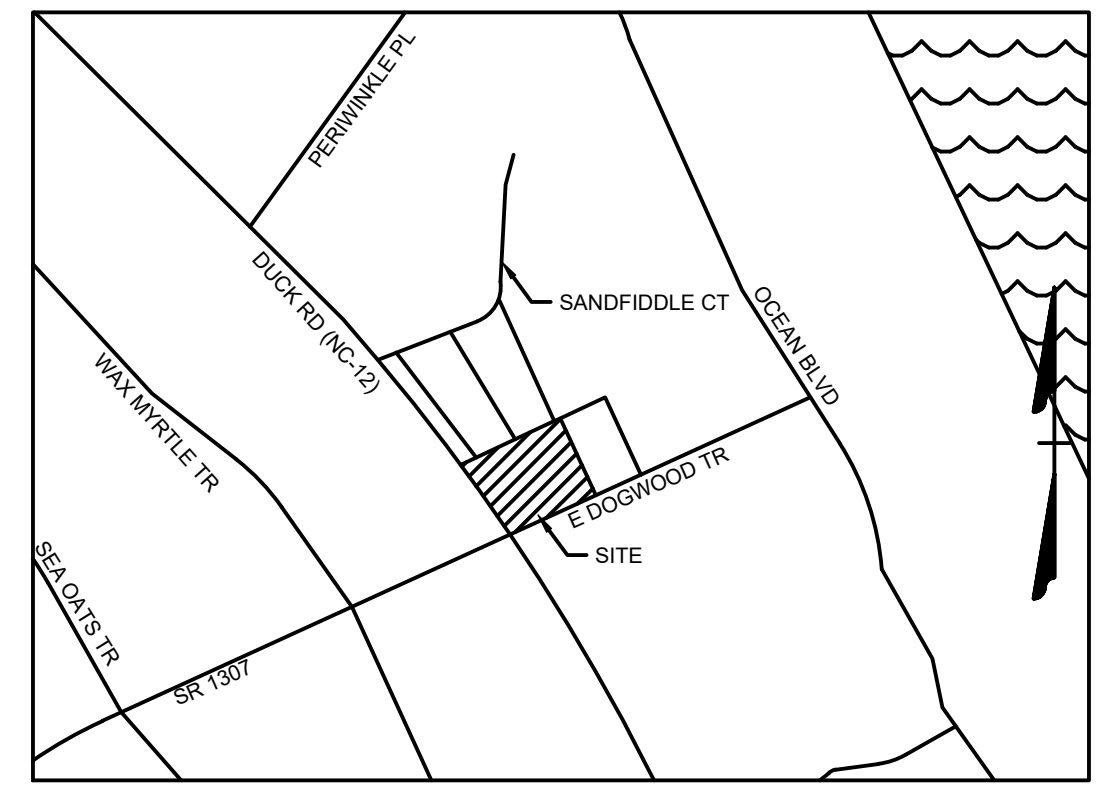
8. TYPE "C" BUFFER: A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON CENTERS

9. ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL COME FROM AN APPROVED MINE.

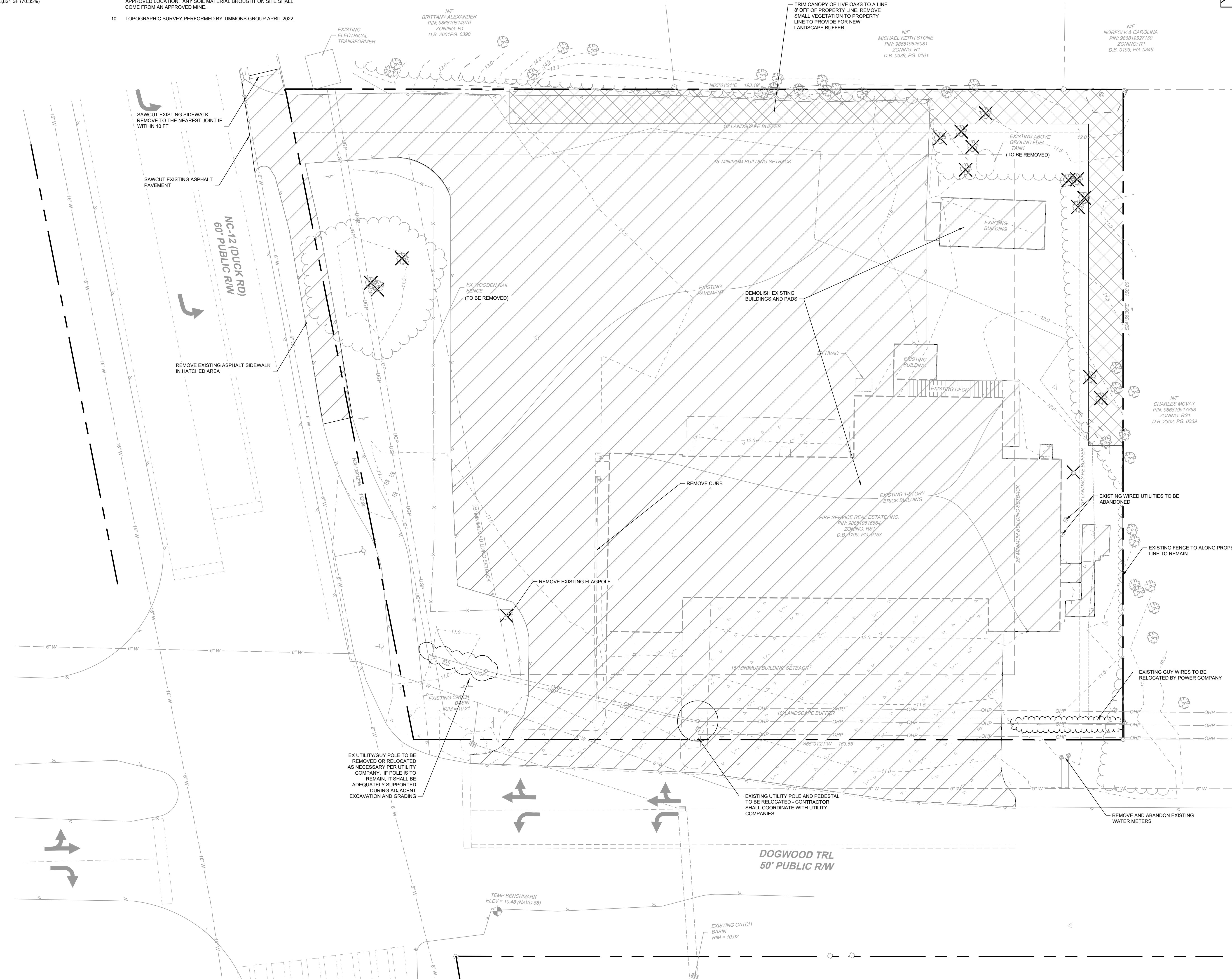
10. TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.

EXISTING COVERAGE:

BUILDING: 4,699 SF (17.56%)
ASPHALT: 10,930 SF (40.85%)
CONCRETE/SIDEWALK: 3,192 SF (11.80%)
GREEN SPACE: 7,932 SF (29.80%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,821 SF (70.35%)



VICINITY MAP
NO SCALE



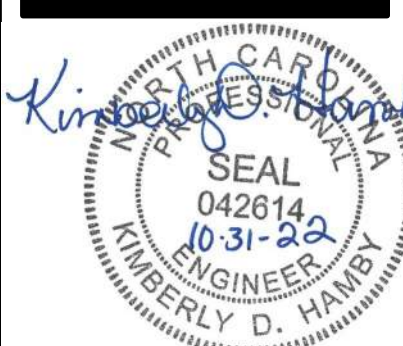
LEGEND

	BENCHMARK
	EX FIRE HYDRANT
	EX WATER VALVE
	EX WATER METER
	EX SEWER MANHOLE
	EX SEWER CLEANOUT
	EX POWER POLE
	EX GUY ANCHOR
	EX ELECTRIC METER
	EX TELECOM PEDESTAL
	EX SIGN
	EX TREE
	PROP SEWER CLEANOUT
	PROP SEWER MANHOLE
	PROP WATER VALVE
	PROP WATER METER
	PROP FIRE HYDRANT
	PROPERTY BOUNDARY
	RIGHT OF WAY
	SETBACK
	EX EDGE OF PAVEMENT
	EX FENCE
	EX OVERHEAD POWER
	EX 6" WATER LINE
	EX 8" WATER LINE
	EX 16" WATER LINE
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	EX EDGE OF TREE LINE
	PROP FENCE
	PROP MAJOR CONTOUR
	PROP MINOR CONTOUR
	PROP WATER LINE
	PROP SEWER LINE
	PROP FORCE MAIN
	PROP EDGE OF TREE LINE
	PROP DITCH/SWALE
	PROP. LIGHT DUTY PAVEMENT
	PROP. HEAVY DUTY PAVEMENT
	PROP. CONCRETE
	PROP. CONCRETE PAVEMENT
	AREA TO BE REMOVED
	REMOVE OBJECT
	REMOVE GROUP OF TREES

OAKLEY COLLIER ARCHITECTS
OCA ARCHITECTS
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1111 Haynes Street, Suite 109, Raleigh, NC 27604 (P) 919.965.7700

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1015 West City Street, Suite 104
Elizabeth City, NC 27909
TEL: 252.332.2876
WWW.TIMMONSGROUP.COM
North Carolina License No. C-1452

NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



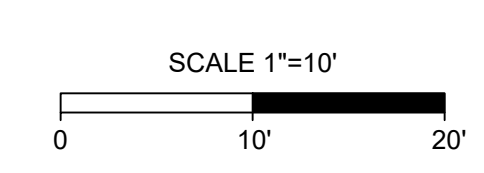
PERMIT DRAWINGS
NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all dimensions.

Revisions:
#1 2022-09-21 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date: 9/14/22	Project No: 52044.004
Drawn By: JBF	Sheet No: C1.1
Checked By: KDH	Sheet Title: DEMOLITION PLAN

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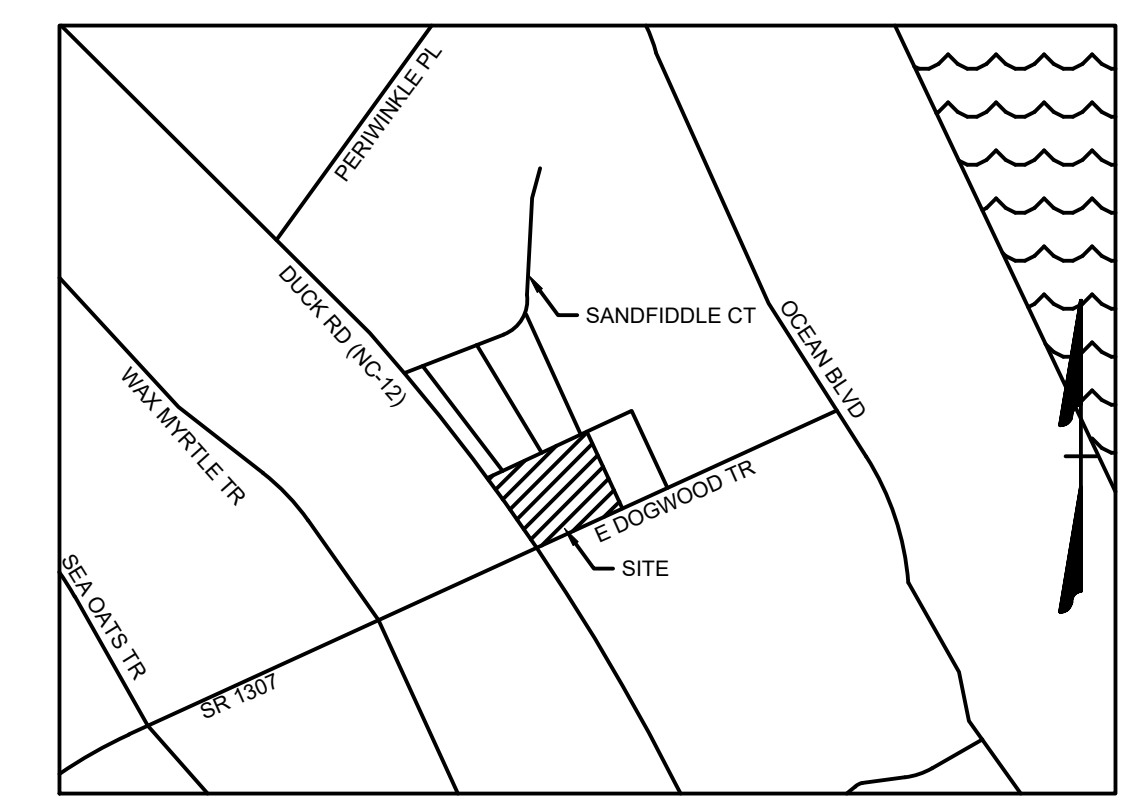


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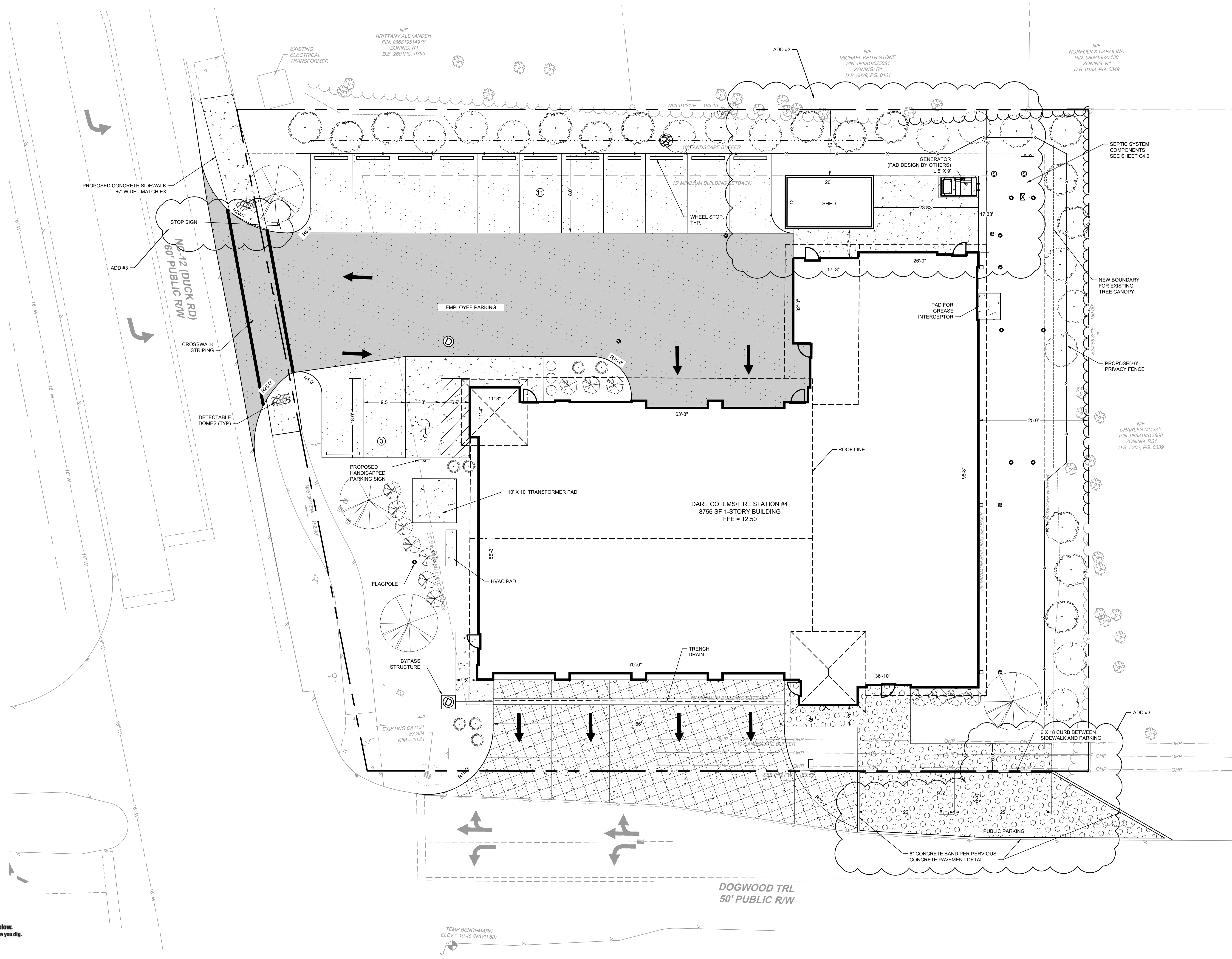
- OWNER:
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27949
- SITE INFORMATION:
PIN: 0681051694
D.B. 1700, PG. 153
ZONING: COMMERCIAL
SITE AREA: 0.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27949
- ACCORDING TO FIRM MAP NUMBER 372086900K, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
- BUILDING SETBACKS:
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 10'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:
EXISTING COVERAGE:
BUILDINGS: 4,809 SF (17.56%)
ASPHALT: 10,930 SF (40.85%)
CONCRETE/SIDEWALK: 3,182 SF (11.83%)
GREEN SPACE: 7,932 SF (29.63%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,621 SF (70.35%)

- PROPOSED COVERAGE:
BUILDING: 8,906 SF (33.29%)
ASPHALT: 8,126 SF (30.37%)
CONCRETE/SIDEWALK: 1,408 SF (5.26%)
GREEN SPACE: 8,315 SF (31.08%)
TOTAL: 26,755 SF (100.0%)
TOTAL IMPERVIOUS: 18,440 SF (68.93%)
DECREASE IN IMPERVIOUS AREA: 381 SF

- PARKING:
REQUIRED: ONE SPACE/EMPLOYEE PLUS
ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM
12 SPACES REQUIRED
PROVIDED: 16 SPACES (INCLUDING 1 ADA)
- TYPE "B" BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE VEGETATION.
- TYPE "C" BUFFER: A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON CENTERS
- DISTURBED AREA WILL NOT EXCEED 0.66 ACRES
- ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL COME FROM AN APPROVED MINE.
- TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.



VICINITY MAP
NO SCALE



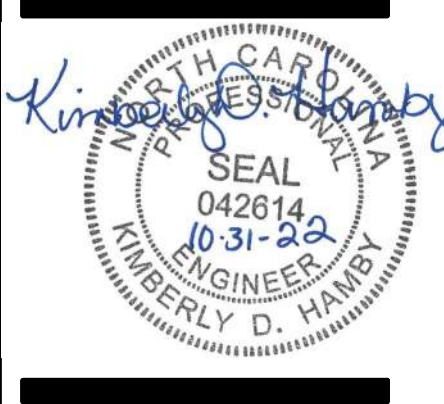
LEGEND

	BENCHMARK
	EX FIRE HYDRANT
	EX WATER VALVE
	EX WATER METER
	EX SEWER MANHOLE
	EX SEWER CLEANOUT
	EX POWER POLE
	EX GUY ANCHOR
	EX ELECTRIC METER
	EX TELECOM PEDESTAL
	EX SIGN
	EX TREE
	PROP SEWER CLEANOUT
	PROP SEWER MANHOLE
	PROP WATER VALVE
	PROP WATER METER
	PROP FIRE HYDRANT
	PROP STORM STRUCTURE
	PROPERTY BOUNDARY
	RIGHT OF WAY
	SETBACK
	EX EDGE OF PAVEMENT
	EX FENCE
	EX OVERHEAD POWER
	EX 6" WATER LINE
	EX 8" WATER LINE
	EX 16" WATER LINE
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	EX EDGE OF TREE LINE
	PROP FENCE
	PROP MAJOR CONTOUR
	PROP MINOR CONTOUR
	PROP WATER LINE
	PROP SEWER LINE
	PROP FORCE MAIN
	PROP EDGE OF TREE LINE
	PROP DITCH/SWALE
	PROP. LIGHT DUTY PAVEMENT
	PROP. HEAVY DUTY PAVEMENT
	PROP. REINFORCED CONCRETE PAVEMENT
	PROP. PERVIOUS CONCRETE

OAKLEY COLLIER ARCHITECTS
OCA ARCHITECTS
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1111 Haynes Street, Suite 105, Raleigh, NC 27604 (P) 919.965.7700

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1215 West City Street, Suite 104
Elizabeth City, NC 27909
TEL: 252.332.2600
FAX: 252.332.2600
www.timmons.com
North Carolina License No. C-1452

NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA

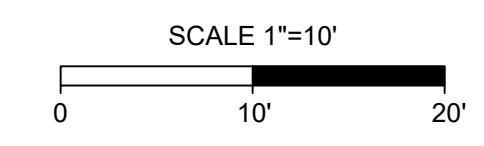


PERMIT
DRAWINGS
NOT FOR
CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all dimensions.
Revisions:
#1 2022-09-21 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date	9/14/22	Project No.	52044.004
Drawn By	JBF	Sheet No.	C2.0
Checked By	KDH	Sheet Title	SITE PLAN

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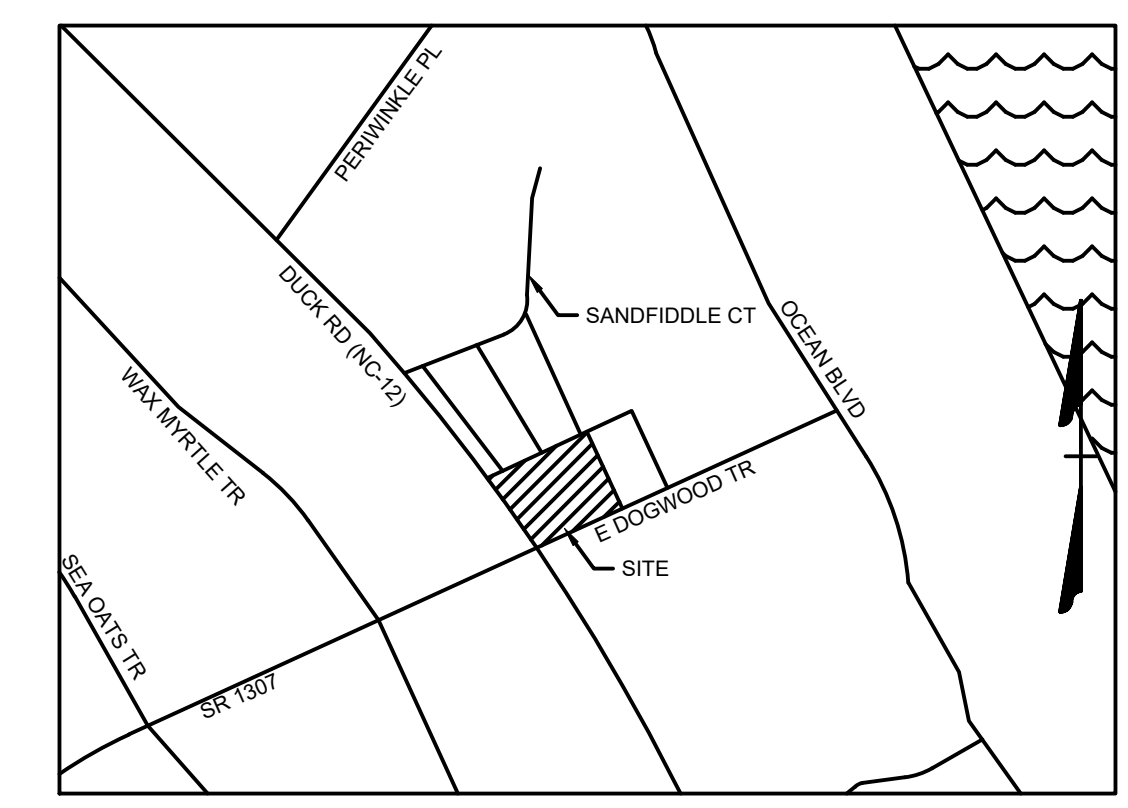


SITE DATA:

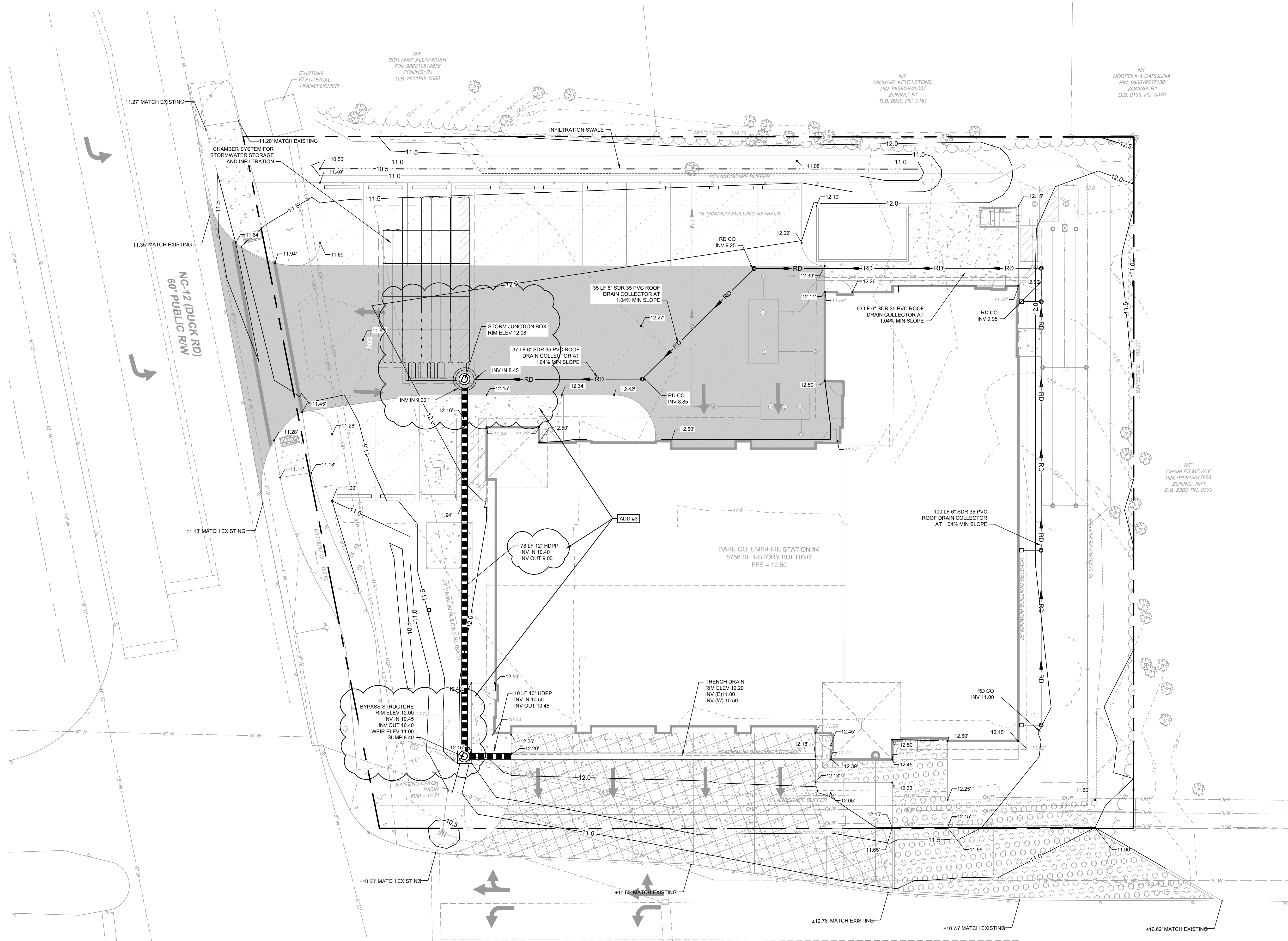
- OWNER:
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27949
- SITE INFORMATION:
PIN: 5868151694
D.B. 1700, PG. 153
ZONING: COMMERCIAL
SITE AREA: 0.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27949
- ACCORDING TO FIRM MAP NUMBER 373086600K, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
- BUILDING SETBACKS:
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 10'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:
EXISTING COVERAGE:
BUILDINGS: 4,809 SF (17.56%)
ASPHALT: 10,930 SF (40.85%)
CONCRETE/SIDEWALK: 3,182 SF (11.83%)
GREEN SPACE: 7,932 SF (29.63%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,621 SF (70.35%)

- PROPOSED COVERAGE:
BUILDING: 8,906 SF (33.29%)
ASPHALT: 8,126 SF (30.37%)
CONCRETE/SIDEWALK: 1,408 SF (5.26%)
GREEN SPACE: 8,315 SF (31.08%)
TOTAL: 26,755 SF (100.0%)
TOTAL IMPERVIOUS: 19,440 SF (72.68%)
DECREASE IN IMPERVIOUS AREA: 381 SF

6. PARKING:
REQUIRED: ONE SPACE/EMPLOYEE PLUS
ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM:
12 SPACES REQUIRED
PROVIDED: 16 SPACES (INCLUDING 1 ADA)
7. TYPE "B" BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL
REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE
HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE
VEGETATION.
TYPE "C" BUFFER: A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH
A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL
REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON
CENTERS
8. DISTURBED AREA WILL NOT EXCEED 0.66 ACRES
9. ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN
APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL
COME FROM AN APPROVED MINE.
10. TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.



VICINITY MAP
NO SCALE



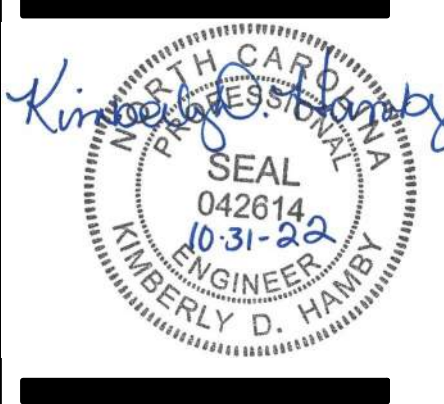
LEGEND

- BENCHMARK
- EX FIRE HYDRANT
- EX WATER VALVE
- EX WATER METER
- EX SEWER MANHOLE
- EX SEWER CLEANOUT
- EX POWER POLE
- EX GUY ANCHOR
- EX ELECTRIC METER
- EX TELECOM PEDESTAL
- EX SIGN
- EX TREE
- PROP SEWER CLEANOUT
- PROP SEWER MANHOLE
- PROP WATER VALVE
- PROP WATER METER
- PROP FIRE HYDRANT
- PROP STORM STRUCTURE
- PROPERTY BOUNDARY
- RIGHT OF WAY
- SETBACK
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- EX FENCE
- EX OVERHEAD POWER
- EX 6" WATER LINE
- EX 8" WATER LINE
- EX 16" WATER LINE
- EX MAJOR CONTOUR
- EX MINOR CONTOUR
- EX EDGE OF TREE LINE
- PROP FENCE
- PROP MAJOR CONTOUR
- PROP MINOR CONTOUR
- PROP WATER LINE
- PROP SEWER LINE
- PROP FORCE MAIN
- PROP EDGE OF TREE LINE
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- PROP. LIGHT DUTY PAVEMENT
- PROP. HEAVY DUTY PAVEMENT
- PROP. CONCRETE
- PROP. REINFORCED CONCRETE PAVEMENT
- PROP. PERVIOUS CONCRETE

OAKLEY COLLIER ARCHITECTS
OCA ARCHITECTS
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1111 Haynes Street, Suite 109, Raleigh, NC 27604 (P) 919.963.7700

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THE GRADING DIVISION AT THE
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1215 West City Street, Suite 101
Elizabeth City, NC 27909
TEL: 252.333.2800
WWW.TIMMONSGROUP.COM
North Carolina License No. C-1452

NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



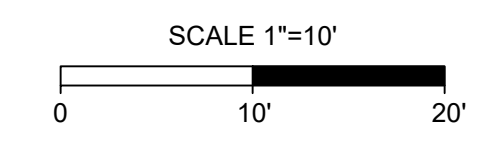
PERMIT
DRAWINGS
NOT FOR
CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all dimensions.

Revisions:
#1 2022-09-21 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date	9/14/22	Project No.	52044.004
Drawn By	JBF	Sheet No.	C3.0
Checked By	KDH	Sheet Title	GRADING PLAN

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SITE DATA:

- OWNER:**
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27849
- SITE INFORMATION:**
PIN: 986819516864
D.B. 1790, PG. 153
ZONING: COMMERCIAL
SITE AREA: 0.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27849
- ACCORDING TO FIRM MAP NUMBER 3720986800, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.**
- BUILDING SETBACKS:**
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 15'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:**

EXISTING COVERAGE:

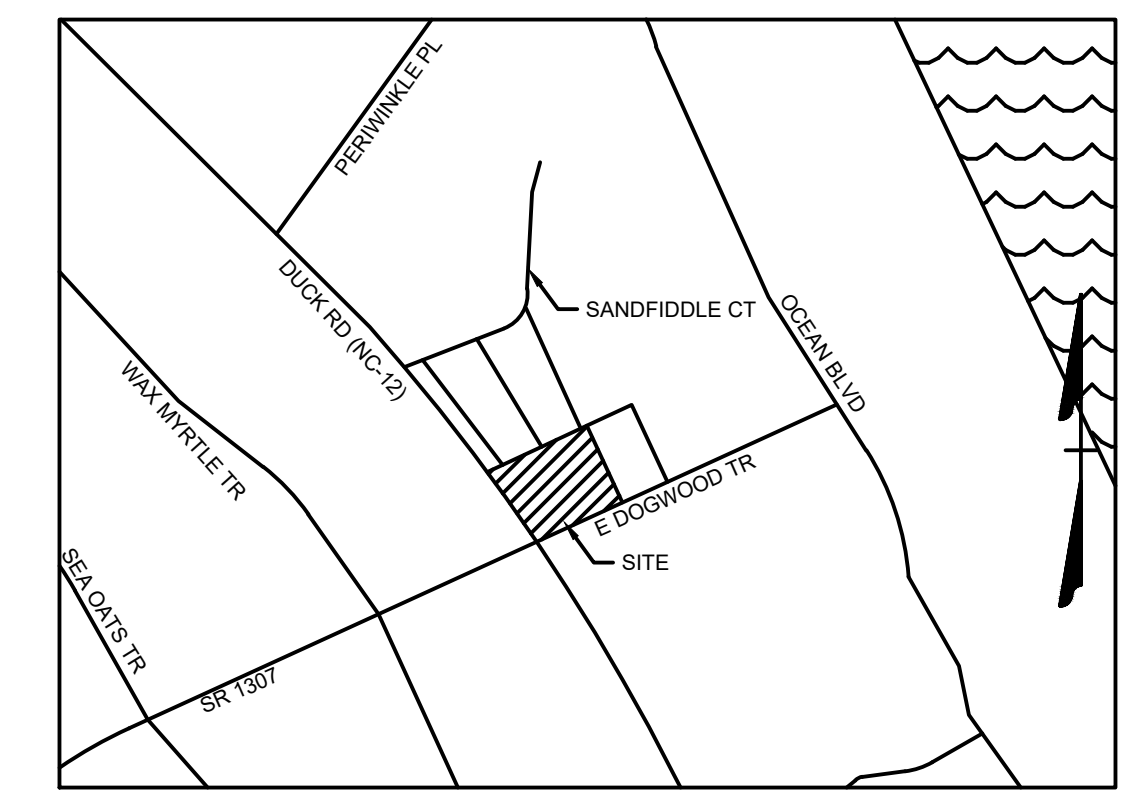
BUILDING	4,699 SF (17.56%)
ASPHALT	10,930 SF (40.85%)
CONCRETE/SIDEWALK	3,192 SF (11.93%)
GREEN SPACE	7,932 SF (29.65%)
TOTAL	26,753 SF (100.0%)
TOTAL IMPERVIOUS:	18,821 SF (70.35%)

PROPOSED COVERAGE:

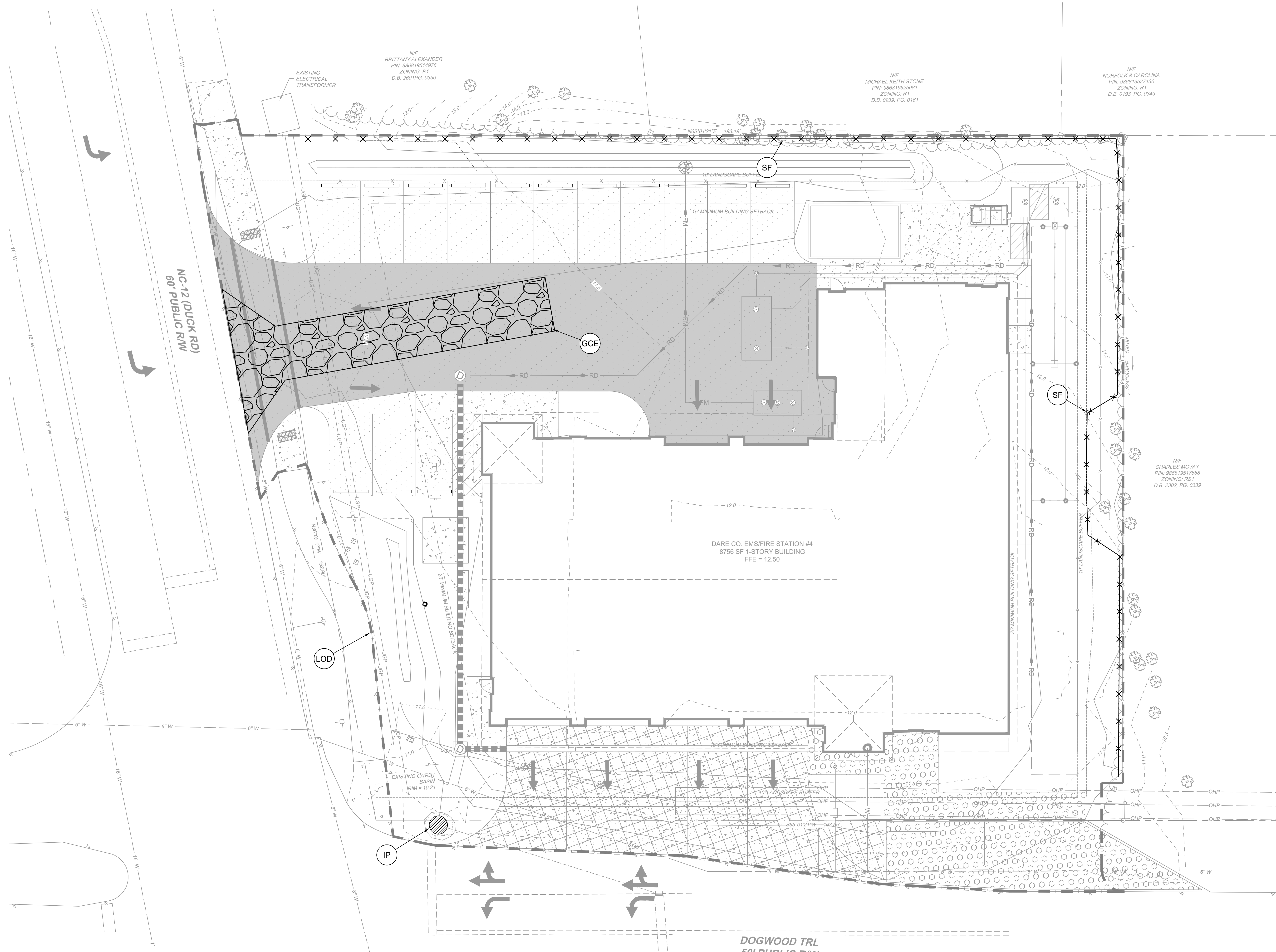
BUILDING	8,906 SF (33.29%)
ASPHALT	8,126 SF (30.37%)
CONCRETE/SIDEWALK	1,408 SF (5.26%)
GREEN SPACE	8,313 SF (31.08%)
TOTAL	26,753 SF (100.0%)
TOTAL IMPERVIOUS:	18,440 SF (68.93%)

DECREASE IN IMPERVIOUS AREA: 381 SF

- PARKING:**
REQUIRED: ONE SPACE/EMPLOYEE PLUS
ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM:
12 SPACES REQUIRED
PROVIDED: 16 SPACES (INCLUDING 1 ADA)
- TYPE 'B' BUFFER:** A 10' WIDE BUFFER WITH VEGETATION THAT WILL REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE HEIGHT OF NO LESS THAN 6" ON THE OUTSIDE PERIMETER OF THE VEGETATION.
- TYPE 'C' BUFFER:** A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON CENTERS
- DISTURBED AREA WILL NOT EXCEED 0.66 ACRES**
- ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL COME FROM AN APPROVED MINE.**
- TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.**



VICINITY MAP
NO SCALE



LEGEND

(LOD)	--- --	LIMIT OF DISTURBANCE
(GCE)	[Pattern]	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
(IP)	[Pattern]	INLET PROTECTION
(SF)	-x-x-x-	SILT FENCE

SCALE 1"=10'
0 10' 20'

OAKLEY COLLIER ARCHITECTS
OCA ARCHITECTS
107 Condeewood Road, Rocky Mount, NC 27864 (P) 252.937.2800
1111 Hayes Street, Suite 109, Raleigh, NC 27664 (P) 919.963.7700

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1815 West City Street, Suite 100
Elizabeth City, NC 27849
TEL: 252.633.2870
WWW.TIMMONSGROUP.COM
North Carolina License No. C-1452

NEW BUILDING FOR
**DARE COUNTY
EMS STATION 4**
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



**PERMIT DRAWINGS
NOT FOR CONSTRUCTION**

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all dimensions.

Revisions #1 2022-09-01 UPDATES PER ARCHITECT COMMENTS	Date	Project No.
#2 2022-10-31 ADDENDUM #3 PER BCC	9/14/22	52044.004
Drawn By: JBF	Checked By: KDH	Sheet No.: C3.1
Sheet Title: EROSION CONTROL PLAN		

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SITE DATA:

- OWNER:
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27849
- SITE INFORMATION:
PIN: 96819516864
D.B.: 1790, PG: 153
ZONING: COMMERCIAL
SITE AREA: 0.82 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27849
- ACCORDING TO FIRM MAP NUMBER 372096800K, DATED JUNE 19, 2020, THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
- BUILDING SETBACKS:
FRONT: 20'
SIDE (NORTH): 15'
SIDE (SOUTH): 10'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:
EXISTING COVERAGE:
BUILDING: 4,699 SF (17.58%)
ASPHALT: 10,830 SF (40.85%)
CONCRETE/SIDEWALK: 3,192 SF (11.93%)
GREEN SPACE: 7,932 SF (29.65%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,821 SF (70.35%)

PROPOSED COVERAGE:

BUILDING: 8,900 SF (33.29%)
ASPHALT: 8,128 SF (30.37%)
CONCRETE/SIDEWALK: 1,408 SF (5.26%)
GREEN SPACE: 8,215 SF (31.08%)
TOTAL: 26,753 SF (100.0%)
TOTAL IMPERVIOUS: 18,440 SF (69.32%)
DECREASE IN IMPERVIOUS AREA: 381 SF

6. PARKING:

REQUIRED: ONE SPACE/EMPLOYEE PLUS ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM
12 SPACES REQUIRED

PROVIDED: 16 SPACES (INCLUDING 1 ADA)

7. TYPE 'B' BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE VEGETATION.

TYPE 'C' BUFFER: A 5' WIDE VEGETATIVE BUFFER THAT WILL REACH A HEIGHT OF 3' WITHIN 3 YEARS PLUS EVERGREEN TREES THAT WILL REACH A HEIGHT OF 6' IN THREE YEARS AT NO MORE THAN 20' ON CENTERS

8. DISTURBED AREA WILL NOT EXCEED 0.66 ACRES

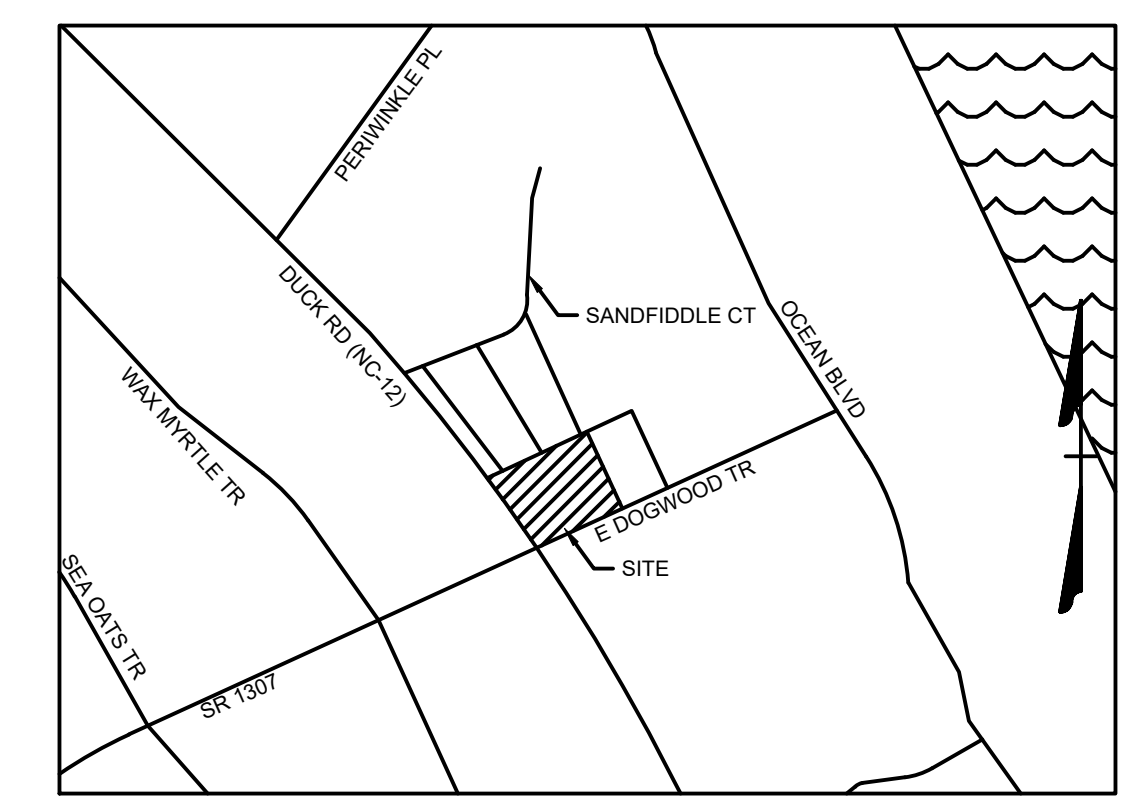
9. ALL MATERIAL REMOVED FROM SITE SHALL BE DISPOSED OF IN AN APPROVED LOCATION. ANY SOIL MATERIAL BROUGHT ON SITE SHALL COME FROM AN APPROVED MINE.

10. TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.

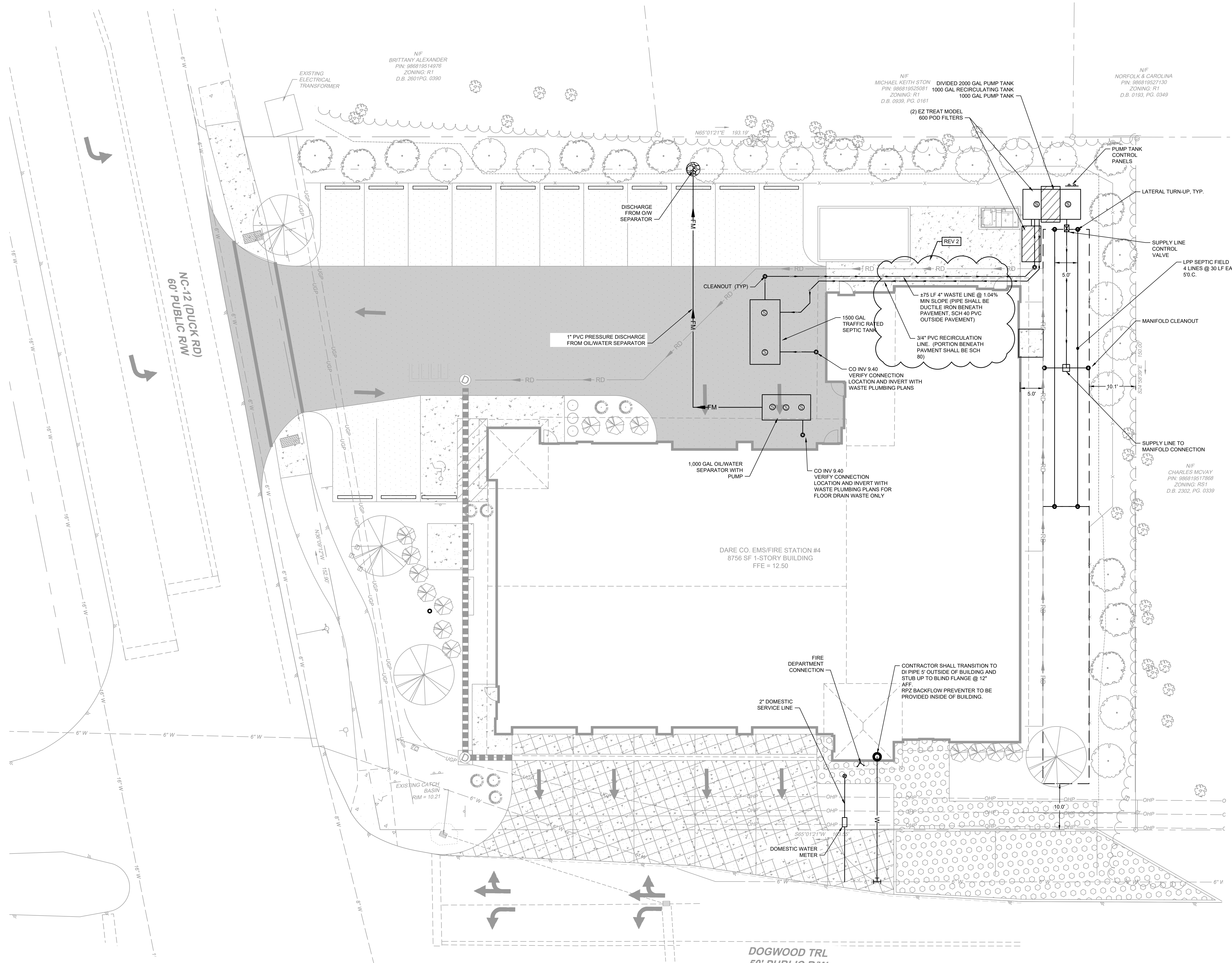
UTILITY NOTES:

- EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON INFORMATION AVAILABLE TO THE ENGINEER AND SHOULD NOT BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT NC ONE CALL AT 811 FOR UTILITY LOCATION.
- ALL INSPECTIONS SHALL BE COORDINATED WITH DARE COUNTY WATER SYSTEM AND THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
- ALL WATERMANS SHALL BE EITHER C-900 PVC OR DUCTILE IRON AS SHOWN ON PLANS. ALL PIPE SHALL COMPLY WITH THE REQUIREMENTS OF AWWA STANDARDS AND THE NATIONAL SANITATION FOUNDATION. ALL PIPE MUST BEAR THE NSF LOGO FOR POTABLE WATER.
- THRUST BLOCKING SHALL BE INSTALLED ON ALL BENDS OF 22 1/2" OR GREATER. (SEE THE SPECIFICATIONS AND DETAILS ON THRUST BLOCKINGS.)
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND MATERIAL OF EXISTING MAINS PRIOR TO ORDERING MATERIALS.
- DURING CONSTRUCTION, NO PIPE SHALL BE COVERED UNTIL INSPECTED BY DARE COUNTY WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION OF WATERLINE.
- THE CONTRACTOR SHALL SATISFY ALL BOND REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL WATERMANS SHALL HAVE A MINIMUM OF 36" COVER.

- ALL PIPES AND SERVICES TO HAVE RUNNING ALONG AND WITH THE PIPE A CONTINUOUS LENGTH OF #12 SOLID COPPER WIRE AND A 3" WIDE TRACER TAPE AT ONE (1) FOOT BELOW THE FINISHED GRADE OF THE EXCAVATION FOR THE PIPE.
- WATERLINES SHALL BE PRESSURE TESTED AND CHLORINATED AS REQUIRED BY NCECO AND AS DETAILED IN THE COUNTY'S SPECIFICATIONS. TESTING SHALL BE INSPECTED BY A REPRESENTATIVE OF DARE COUNTY WATER SYSTEM AND/OR THE ENGINEER.
- UNDERGROUND WATERLINES SHALL BE INSTALLED PER NFPA REQUIREMENTS FOR THE SPRINKLER SYSTEM. THESE LINES SHALL BE PRESSURE TESTED AT 200 PSI FOR TWO HOURS, AFTER WHICH, THEY SHALL BE THOROUGHLY FLUSHED. THIS SHALL BE DONE AT THE END OF THE CONSTRUCTION OF THE PIPE.
- LPP SUPPLY LINE SHALL HAVE A MINIMUM OF 24" COVER IN GRASS AREAS AND SHALL HAVE 36" MINIMUM COVER UNDER ANY DRIVEWAY OR PARKING AREA.
- GRAVITY SEWER UNDER GRASS AREAS ON SITE SHALL BE 6" SOLID CORE SCH40 PVC W/ DWV FITTINGS @ 1% MINIMUM SLOPE. GRAVITY SEWER UNDER ANY DRIVEWAY OR PARKING AREA SHALL BE DUCTILE IRON.
- FOR ALL WASTE WATER TANK CONNECTIONS, LINE SIZES AND MATERIALS, AND ALL OTHER SPECIFICATIONS PLEASE REFER TO SHEET C6.6



VICINITY MAP
NO SCALE



LEGEND

- BENCHMARK
- EX FIRE HYDRANT
- EX WATER VALVE
- EX WATER METER
- EX SEWER MANHOLE
- EX SEWER CLEANOUT
- EX POWER POLE
- EX GUY ANCHOR
- EX ELECTRIC METER
- EX TELECOM PEDESTAL
- EX SIGN
- EX TREE
- PROP SEWER CLEANOUT
- PROP SEWER MANHOLE
- PROP WATER VALVE
- PROP WATER METER
- PROP FIRE HYDRANT
- PROP STORM STRUCTURE
- PROPERTY BOUNDARY
- RIGHT OF WAY
- SETBACK
- EX EDGE OF PAVEMENT
- EX FENCE
- EX OVERHEAD POWER
- EX 6" WATER LINE
- EX 8" WATER LINE
- EX 16" WATER LINE
- EX MAJOR CONTOUR
- EX MINOR CONTOUR
- EX EDGE OF TREE LINE
- PROP FENCE
- PROP MAJOR CONTOUR
- PROP MINOR CONTOUR
- PROP WATER LINE
- PROP SEWER LINE
- PROP FORCE MAIN
- PROP EDGE OF TREE LINE
- PROP DITCH/SWALE
- PROP LIGHT DUTY PAVEMENT
- PROP HEAVY DUTY PAVEMENT
- PROP CONCRETE
- PROP REINFORCED CONCRETE PAVEMENT
- PROP PERVIOUS CONCRETE

SCALE 1"=10'
0 10' 20'

OAKLEY COLLIER ARCHITECTS
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TEL: 919.965.7700
WWW.TIMMONSGROUP.COM

NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



PERMIT DRAWINGS
NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions:
#1 2022-09-21 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 MATERIAL NOTES PER DCH

Date	Project No.
9/14/22	52044.004
Drawn By	Sheet No.
JBF	C4.0
Checked By	Sheet Title
KDH	UTILITY PLAN

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SITE DATA:

- OWNER:
FIRE SERVICE REAL ESTATE, INC SOL
15 S DOGWOOD TRL
KITTY HAWK, NC 27949
- SITE INFORMATION:
PIN: 8981051694
D.B. 1700, PG. 153
ZONING: COMMERCIAL
SITE AREA: 0.62 AC
SITE ADDRESS: 28 E DOGWOOD TRL
SOUTHERN SHORES, NC 27949
- ACCORDING TO FIRM MAP NUMBER 373086800K, DATED JUNE 19, 2020,
THE SITE IS NOT WITHIN A FLOOD HAZARD ZONE.
- BUILDING SETBACKS:
FRONT: 25'
SIDE (NORTH): 15'
SIDE (SOUTH): 10'
REAR: 25'
- IMPERVIOUS AREA CALCULATIONS:
EXISTING COVERAGE: 4,809 SF (17.56%)
BUILDING: 10,930 SF (40.85%)
ASPHALT: 8,126 SF (30.37%)
CONCRETE/SIDEWALK: 8,315 SF (31.08%)
GREEN SPACE: 26,733 SF (100.0%)
TOTAL: 26,733 SF (100.0%)
TOTAL IMPERVIOUS: 18,621 SF (70.35%)

PROPOSED COVERAGE:
BUILDING: 8,906 SF (33.29%)
ASPHALT: 8,126 SF (30.37%)
CONCRETE/SIDEWALK: 8,315 SF (31.08%)
TOTAL: 25,347 SF (95.0%)
TOTAL IMPERVIOUS: 18,440 SF (68.93%)
DECREASE IN IMPERVIOUS AREA: 381 SF

PARKING:
REQUIRED: ONE SPACE/EMPLOYEE PLUS
ONE SPACE/FOUR SEATS IN TRAINING ROOM
10 EMPLOYEES AND 8 SEATS IN CONFERENCE ROOM:
12 SPACES REQUIRED
PROVIDED: 16 SPACES (INCLUDING 1 ADA)

TYPE "B" BUFFER: A 10' WIDE BUFFER WITH VEGETATION THAT WILL REACH A HEIGHT OF 6' WITHIN THREE YEARS PLUS A FENCE WITH THE HEIGHT OF NO LESS THAN 6' ON THE OUTSIDE PERIMETER OF THE VEGETATION.

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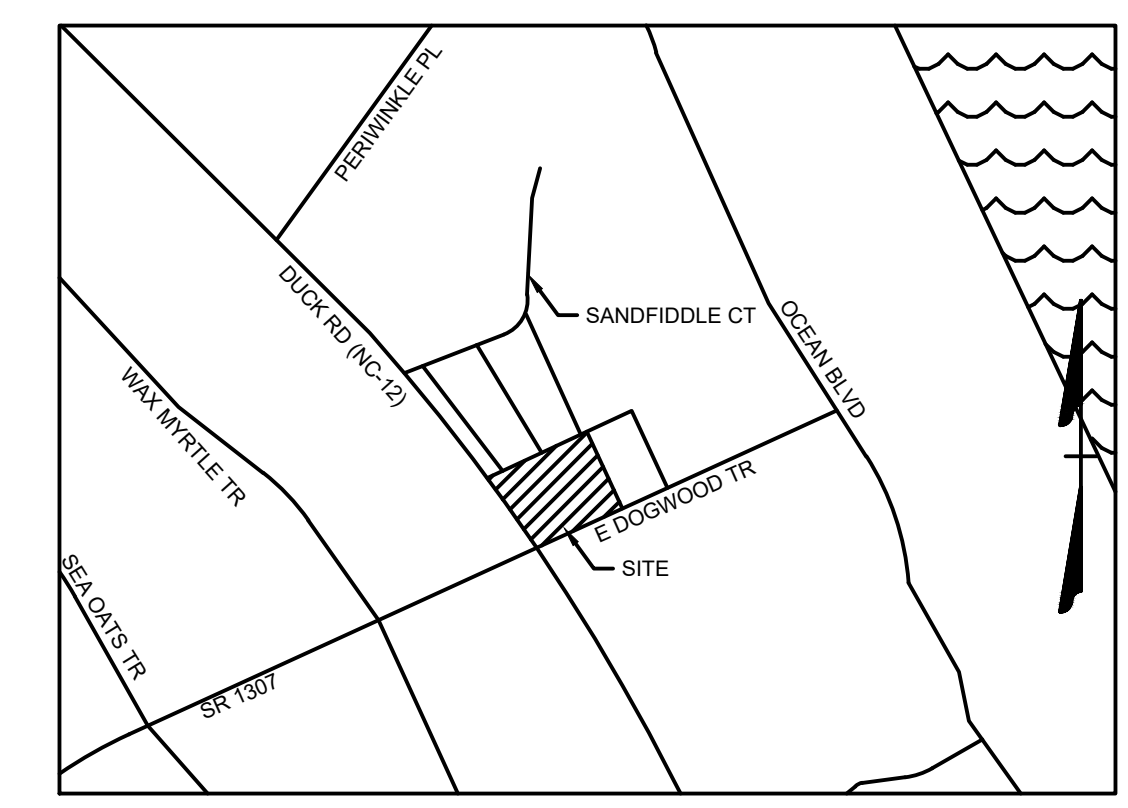
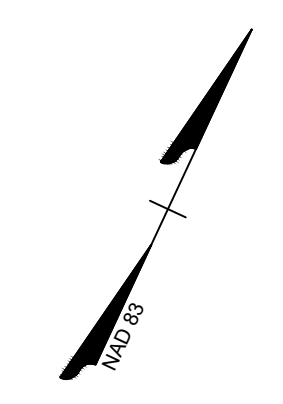
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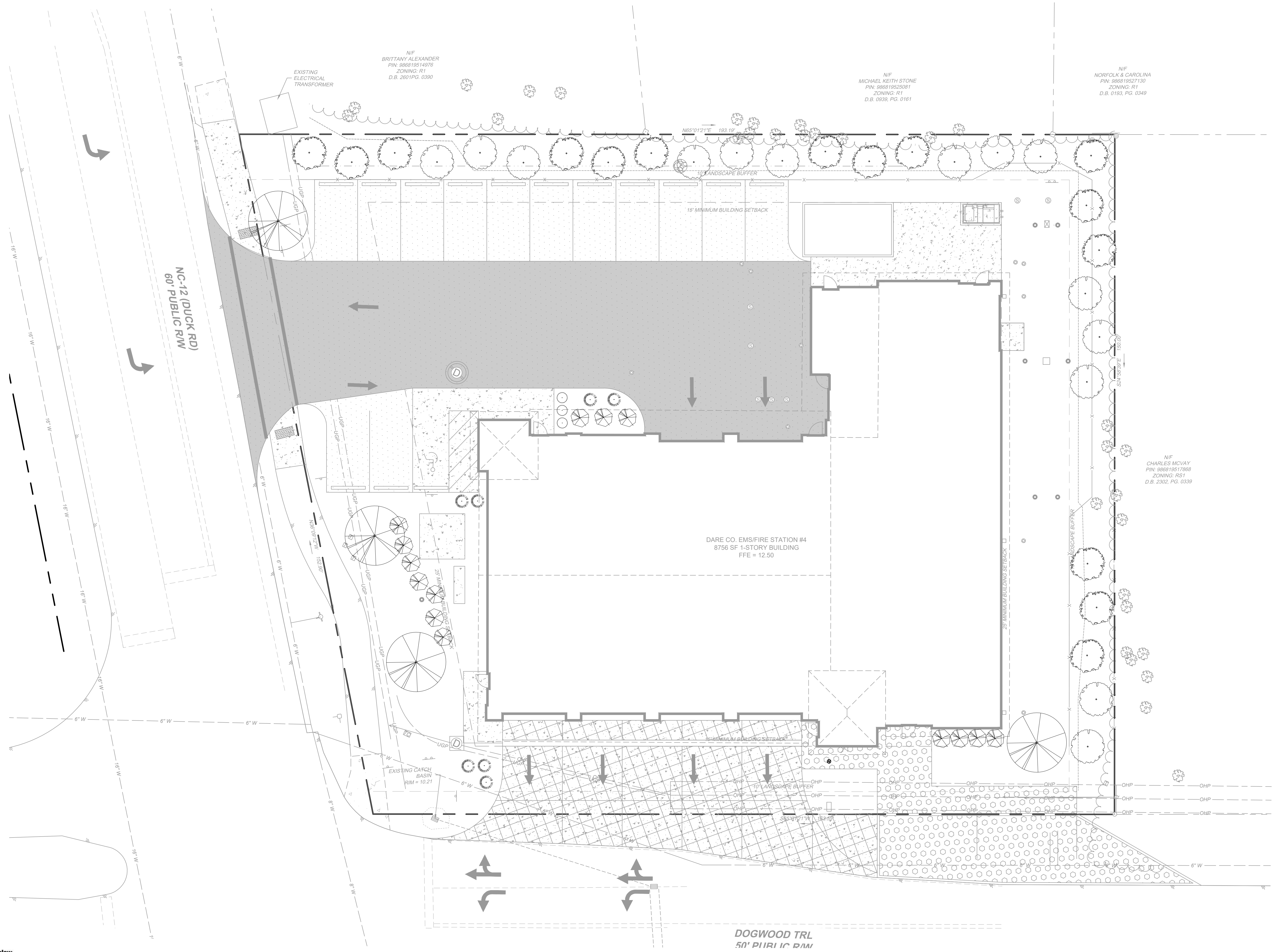
10. TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP APRIL 2022.

LANDSCAPE LEGEND

PLANT NAME	QTY	PLANT NAME	QTY
SWEET BAY MAGNOLIA MAGNOLIACEAE	4	DWARF YALPON HOLLY VOMITORIA	13
WAX MYRTLE MORELLA CERIFERA	14	INKBERRY ILEX GLABRA	7
YALPON HOLLY ILEX VOMITORIA	15	ORANGE CONEFLOWER RUDBECKIA FULGIDA	3



VICINITY MAP
NO SCALE



SCALE 1"=10'
0 10' 20'

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OAKLEY COLLIER ARCHITECTS
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1111 Hayes Street, Suite 109, Raleigh, NC 27664 (P) 919.963.7700

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THESE DRAWINGS PREPARED AT THE
ELIZABETH CITY OFFICE
1015 West City Street, Suite 4
Elizabeth City, NC 27919
TEL: 252.633.2870
WWW.TIMMONSGROUP.COM
North Carolina License No. C-1452

NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA

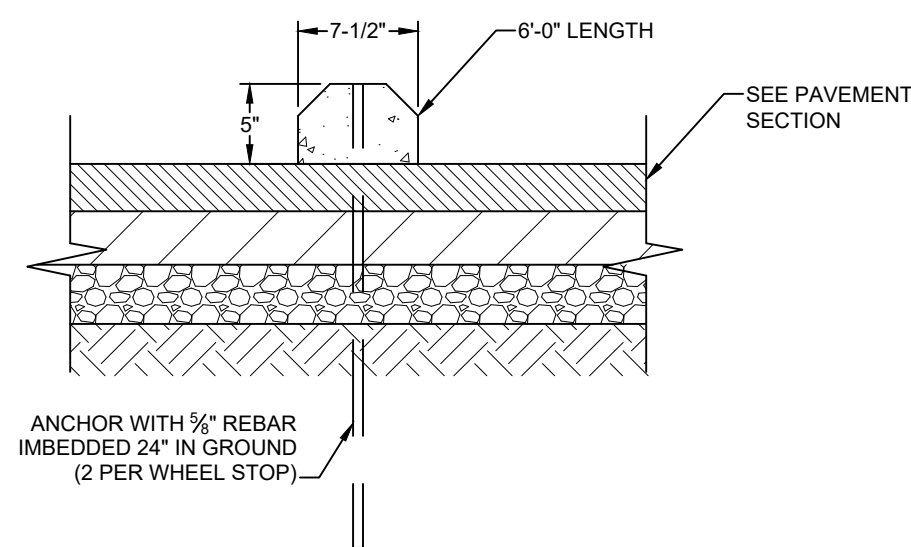


PERMIT DRAWINGS
NOT FOR CONSTRUCTION

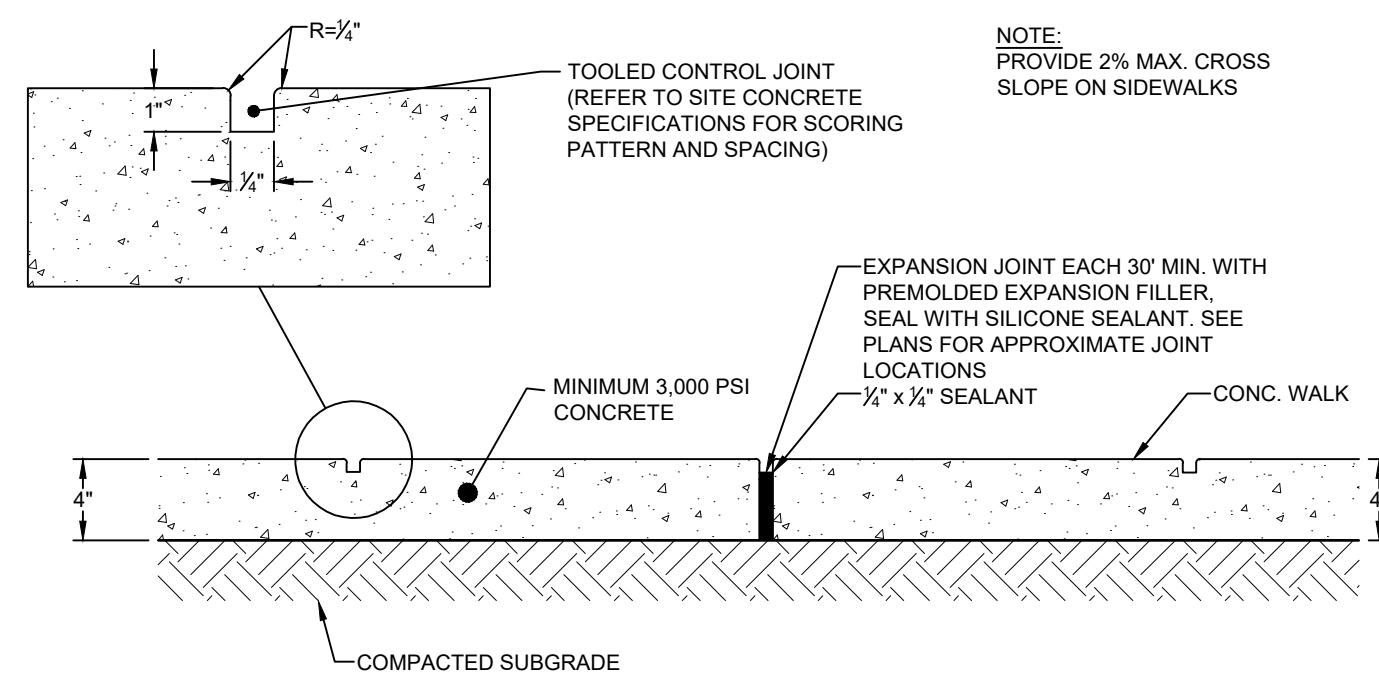
GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions:
#1 2022-09-11 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

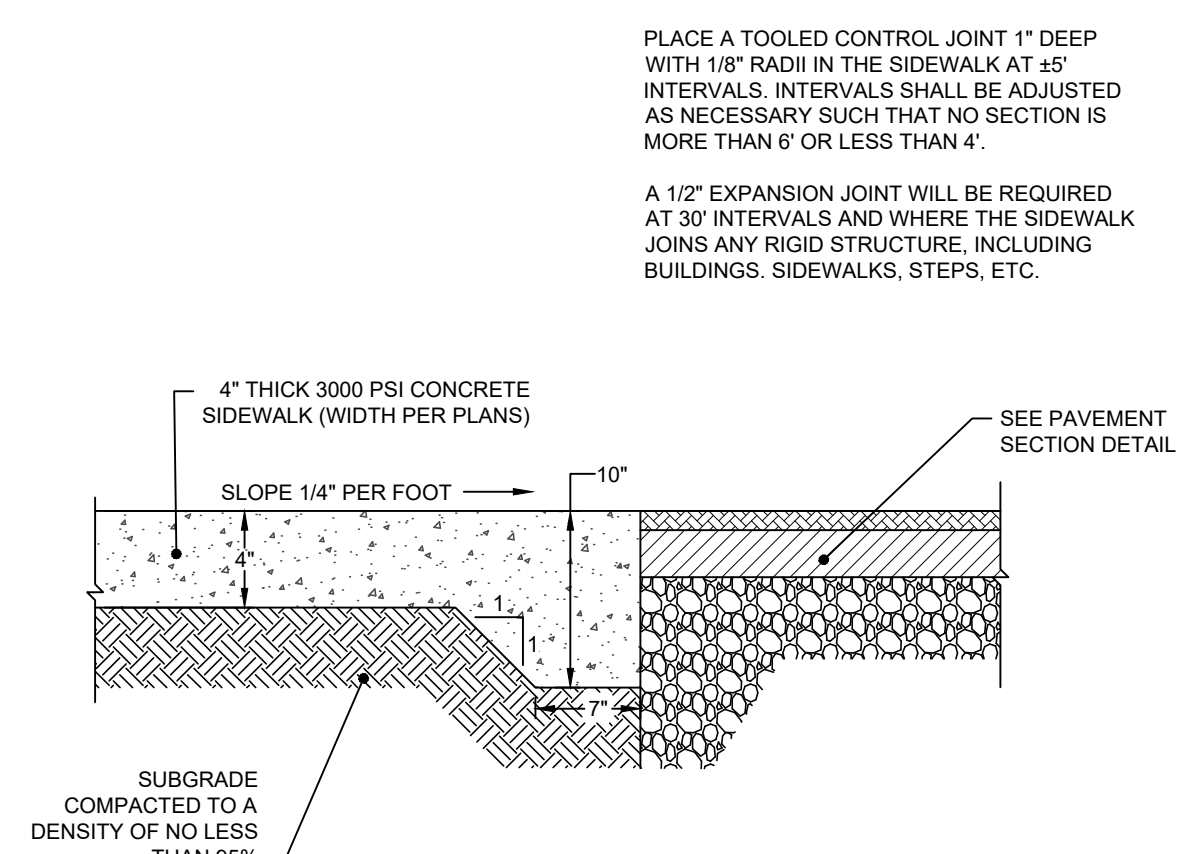
Date	Project No.
9/14/22	52044.004
Drawn By	Sheet No.
JBF	C5.0
Checked By	Sheet Title
KDH	LANDSCAPE PLAN



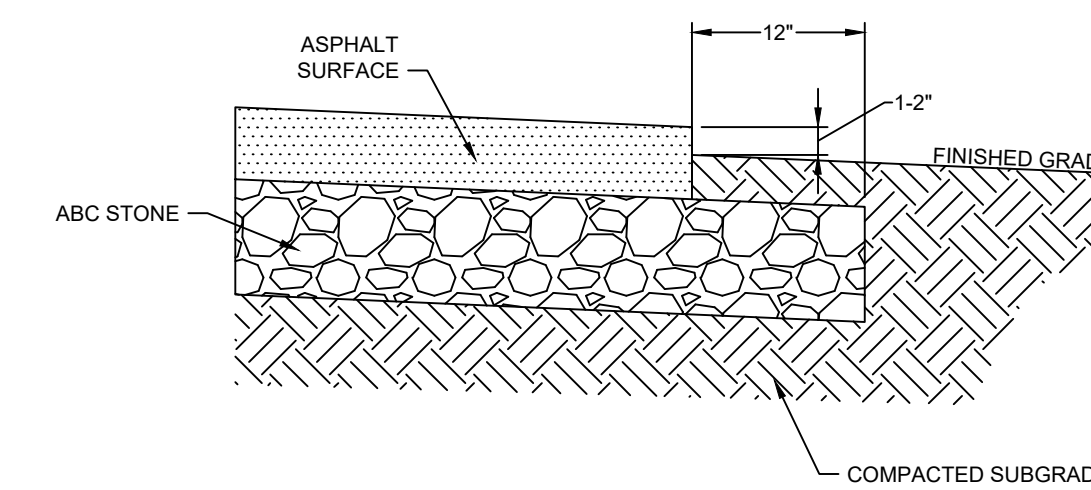
PRECAST BUMPER BLOCK (WHEEL STOP)
NO SCALE



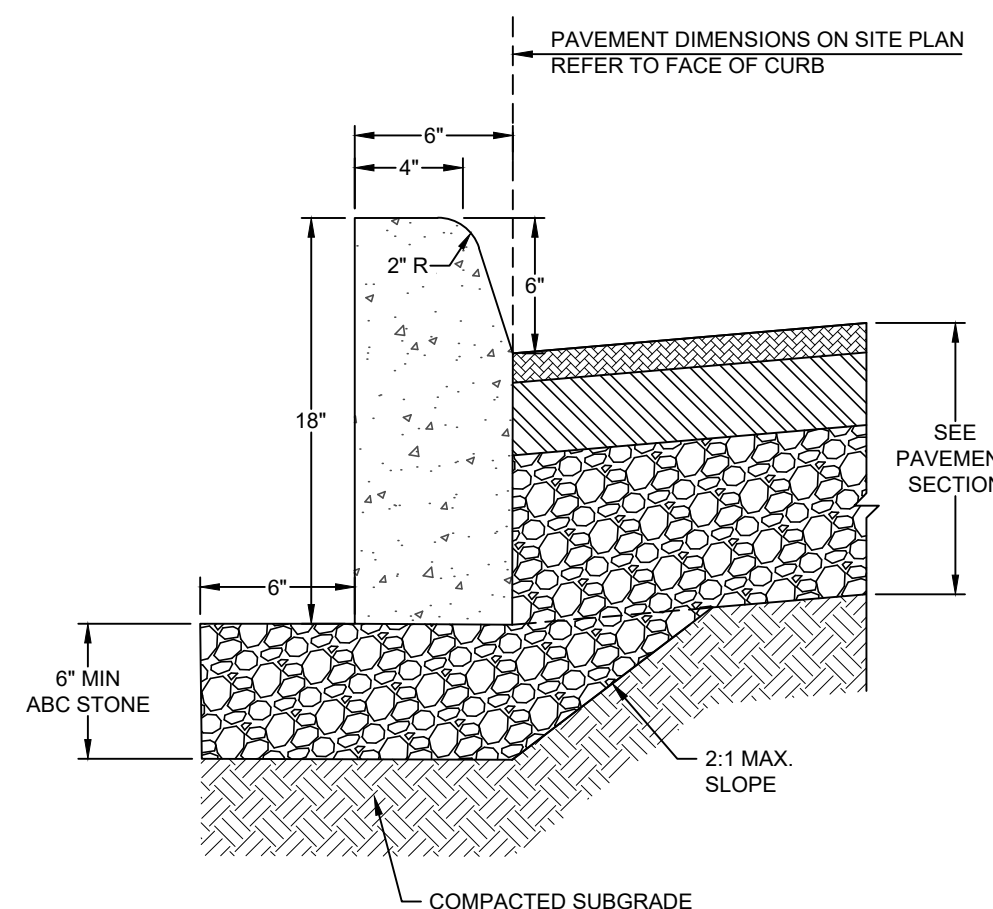
CONCRETE SIDEWALKS
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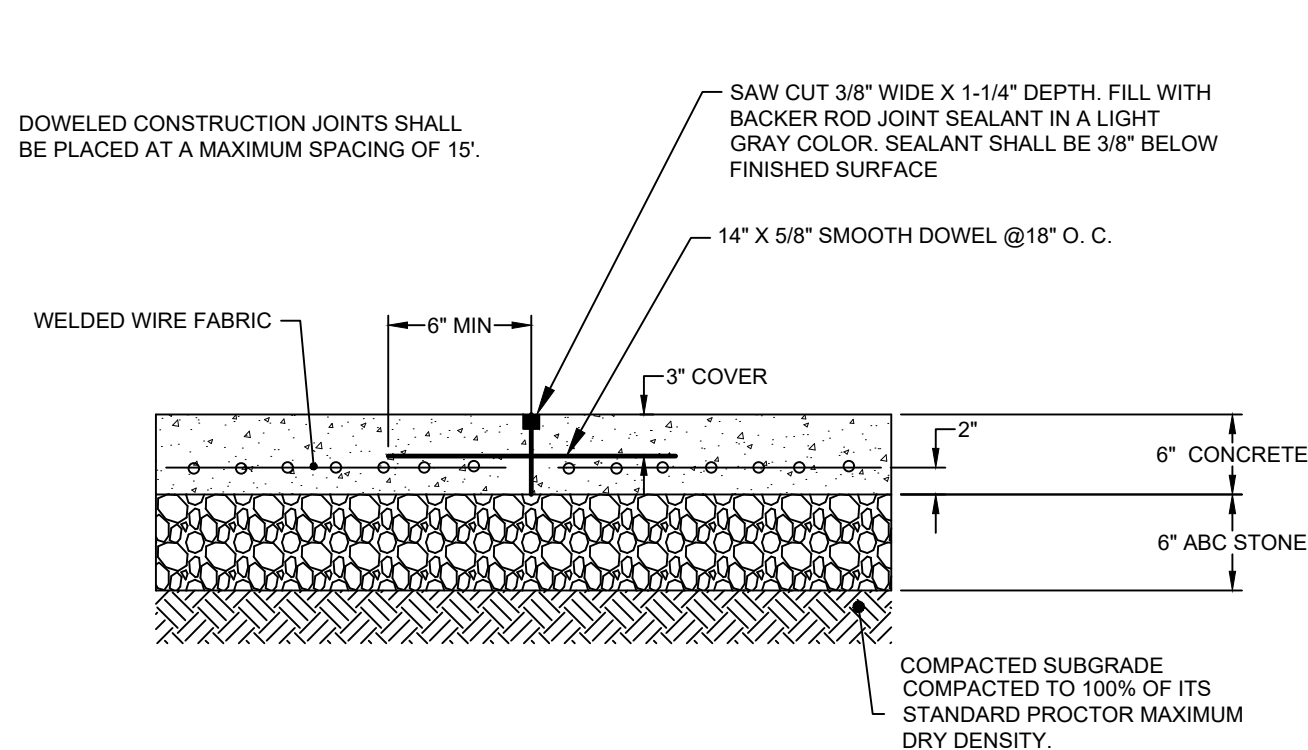
FLUSH SIDEWALK
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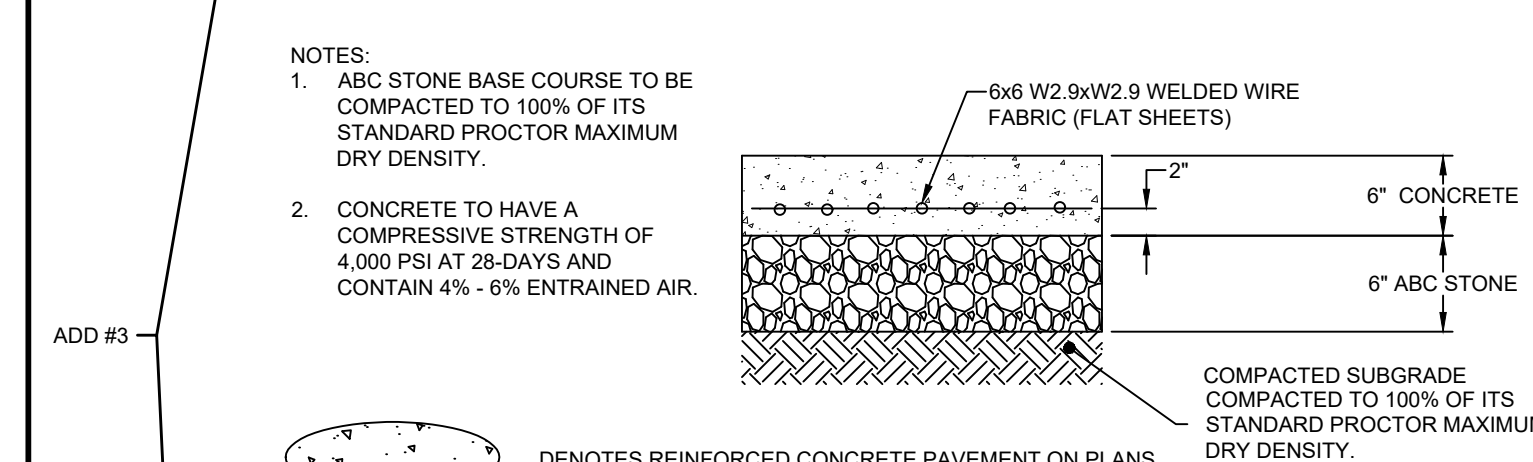
EDGE OF PAVEMENT
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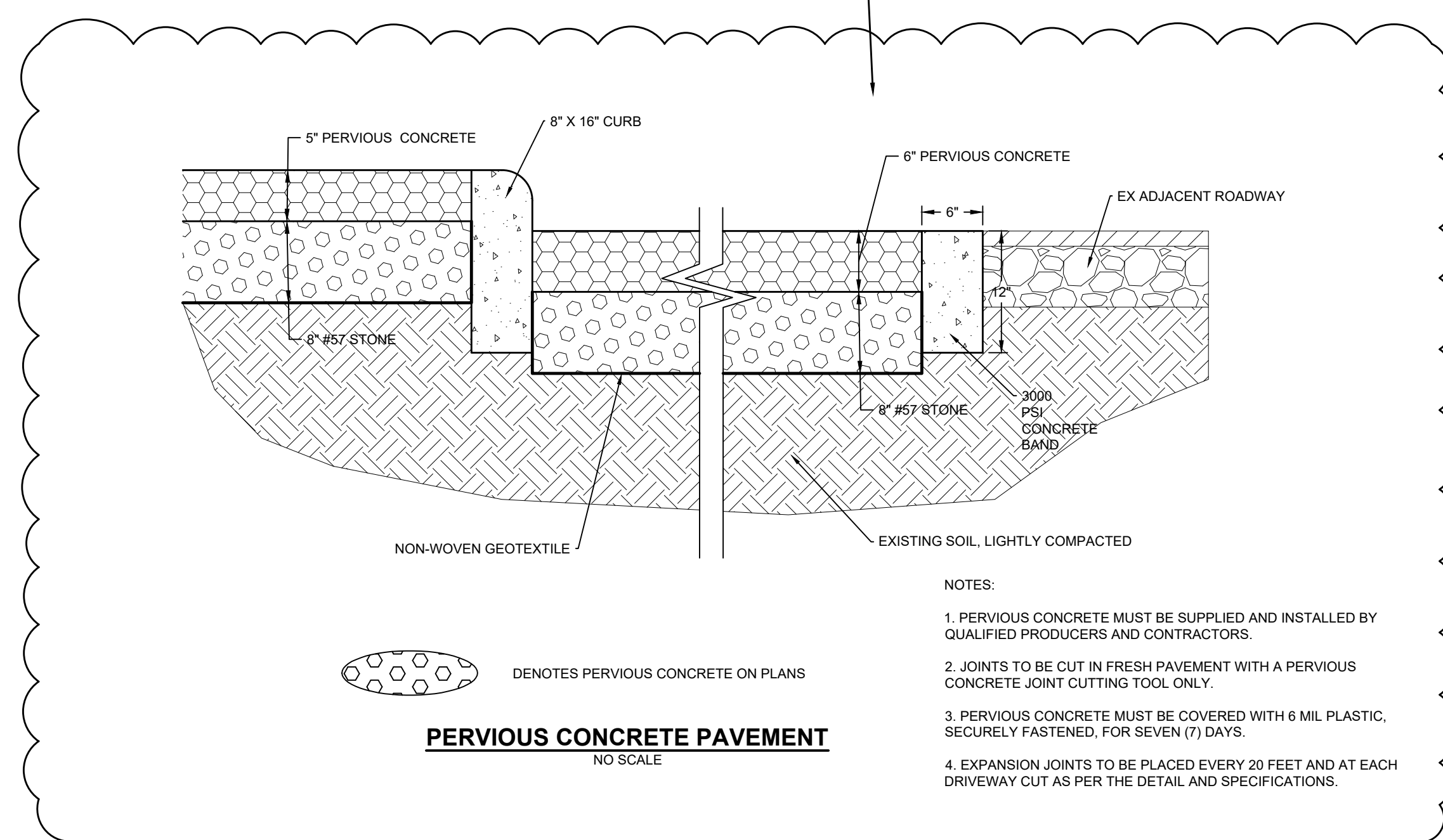
CURB 6" X 18"
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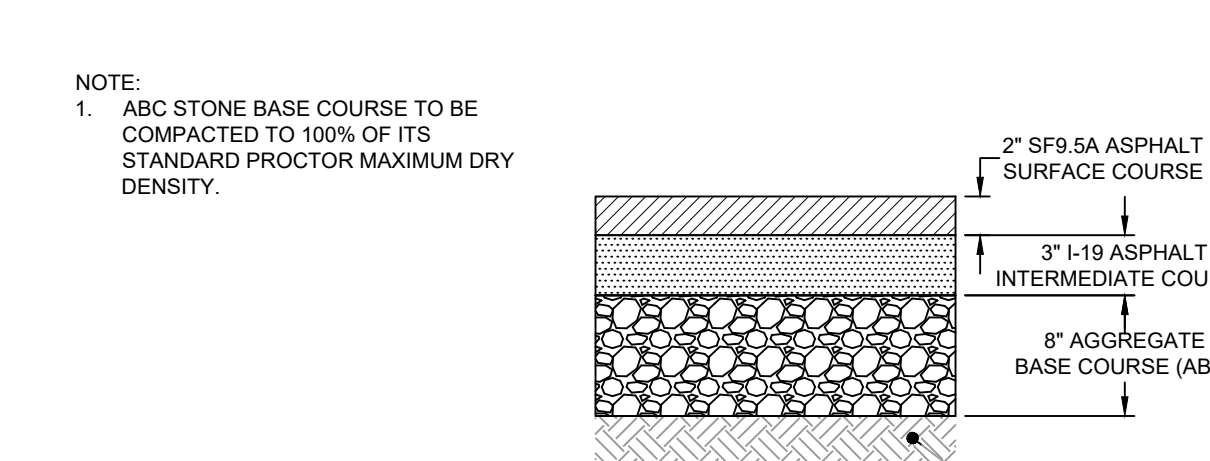
DOWELED CONSTRUCTION JOINT
NO SCALE



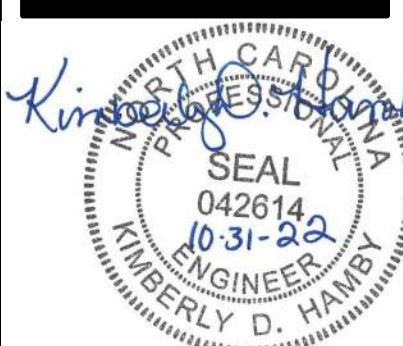
REINFORCED CONCRETE PAVEMENT
NO SCALE



PERVIOUS CONCRETE PAVEMENT
NO SCALE



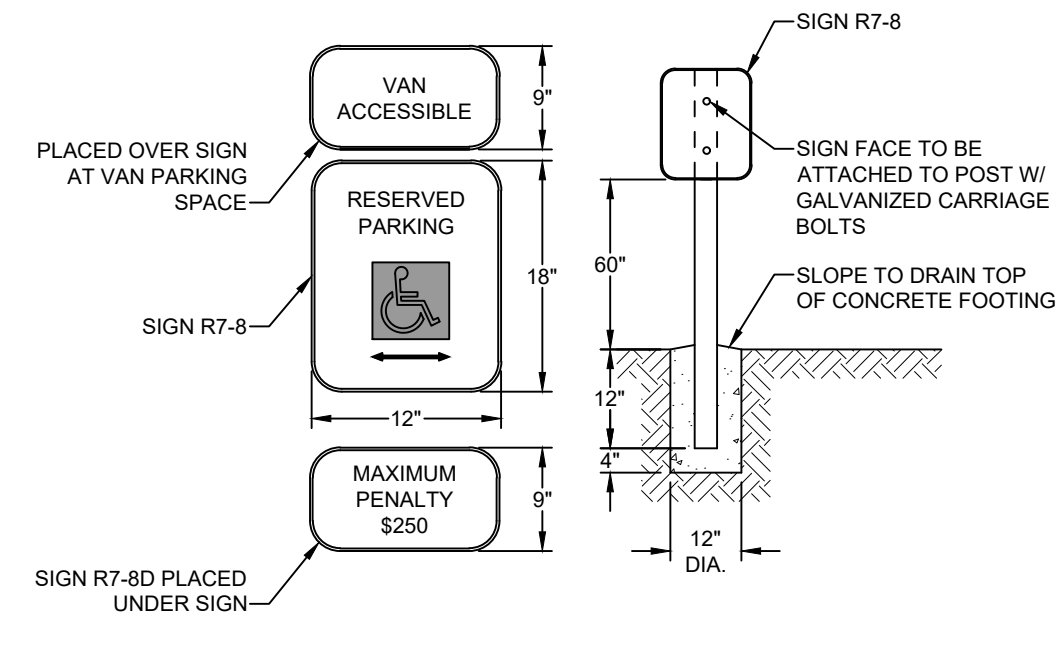
HEAVY DUTY PAVEMENT
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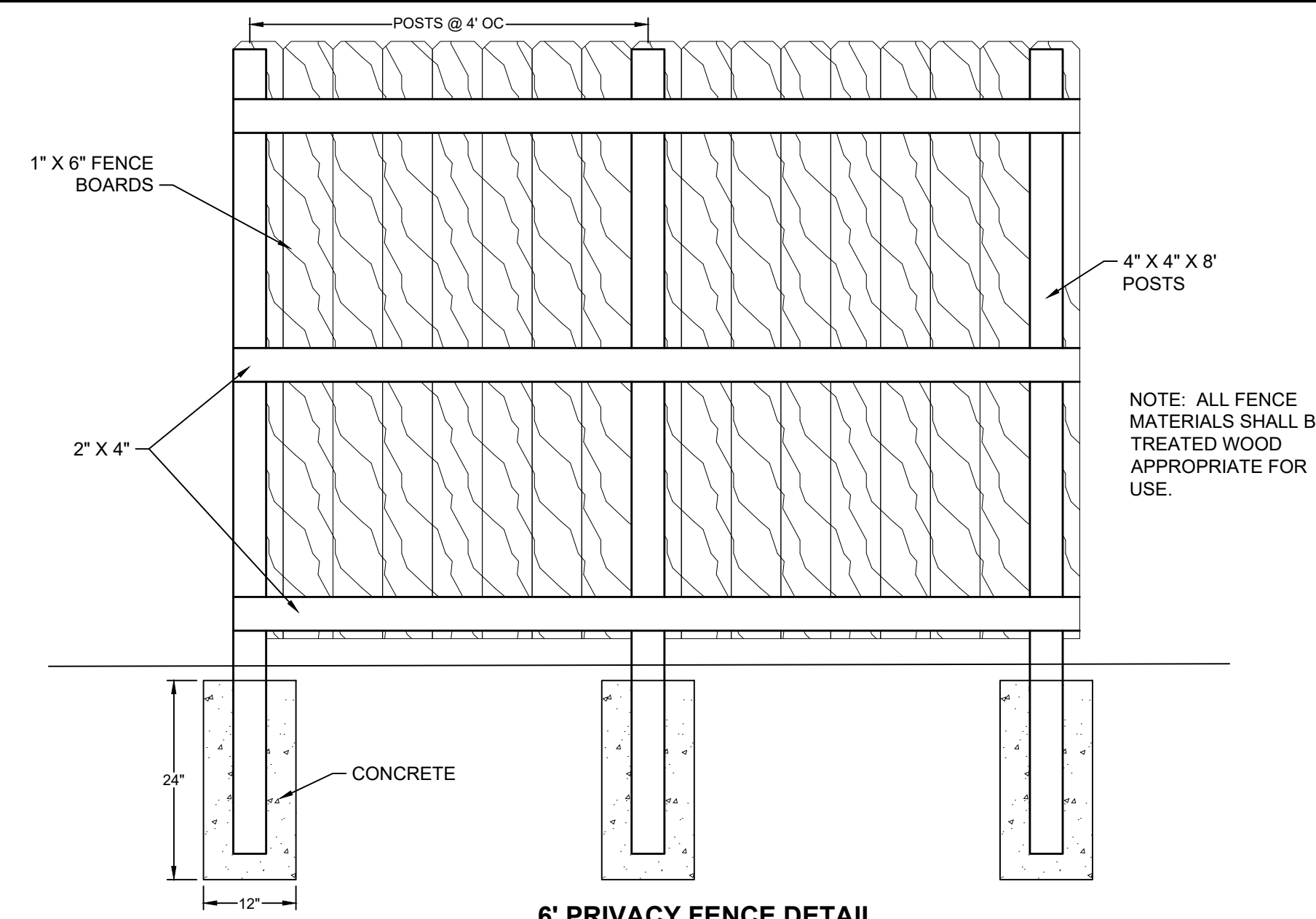
PERMIT DRAWINGS NOT FOR CONSTRUCTION

GENERAL NOTE: Prior to construction start, Contractor shall verify & be responsible for all Dimensions. Revisions: #1 2022-09-11 UPDATES PER ARCHITECT COMMENTS #2 2022-10-31 ADDENDUM #3 PER BCC	
Date: 9/14/22	Project No: 52044.004
Drawn By: JBF	Sheet No: C6.0
Checked By: KDH	
Date: 9/14/22 Project No: 52044.004 Sheet Title: SITE DETAILS	

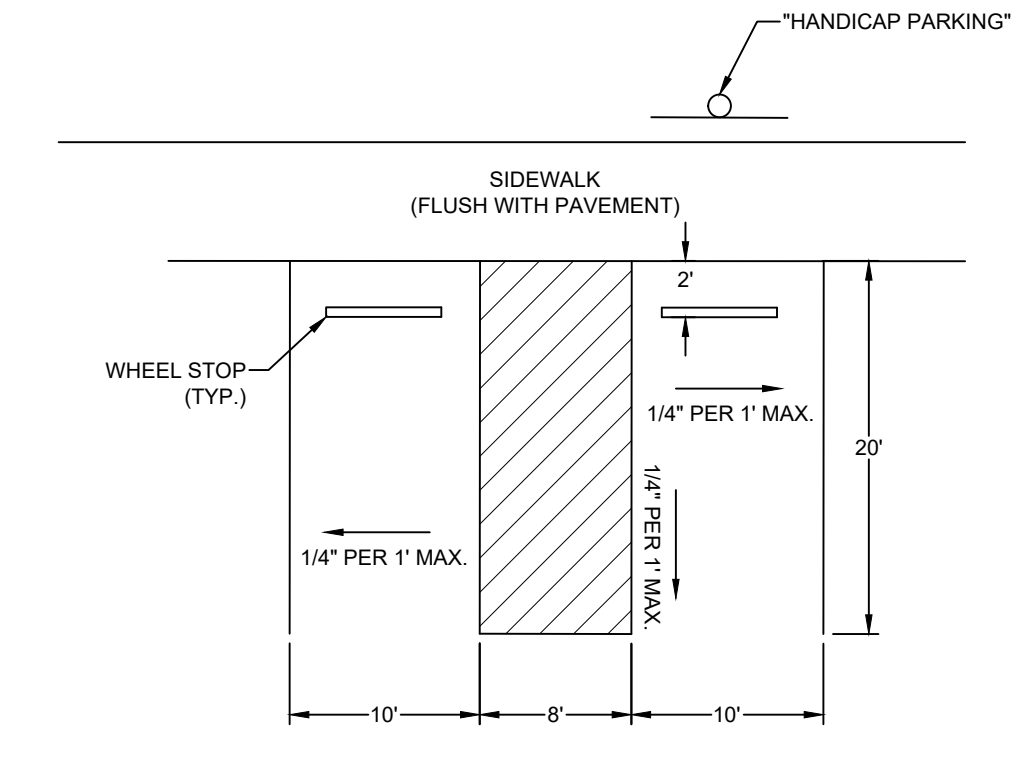




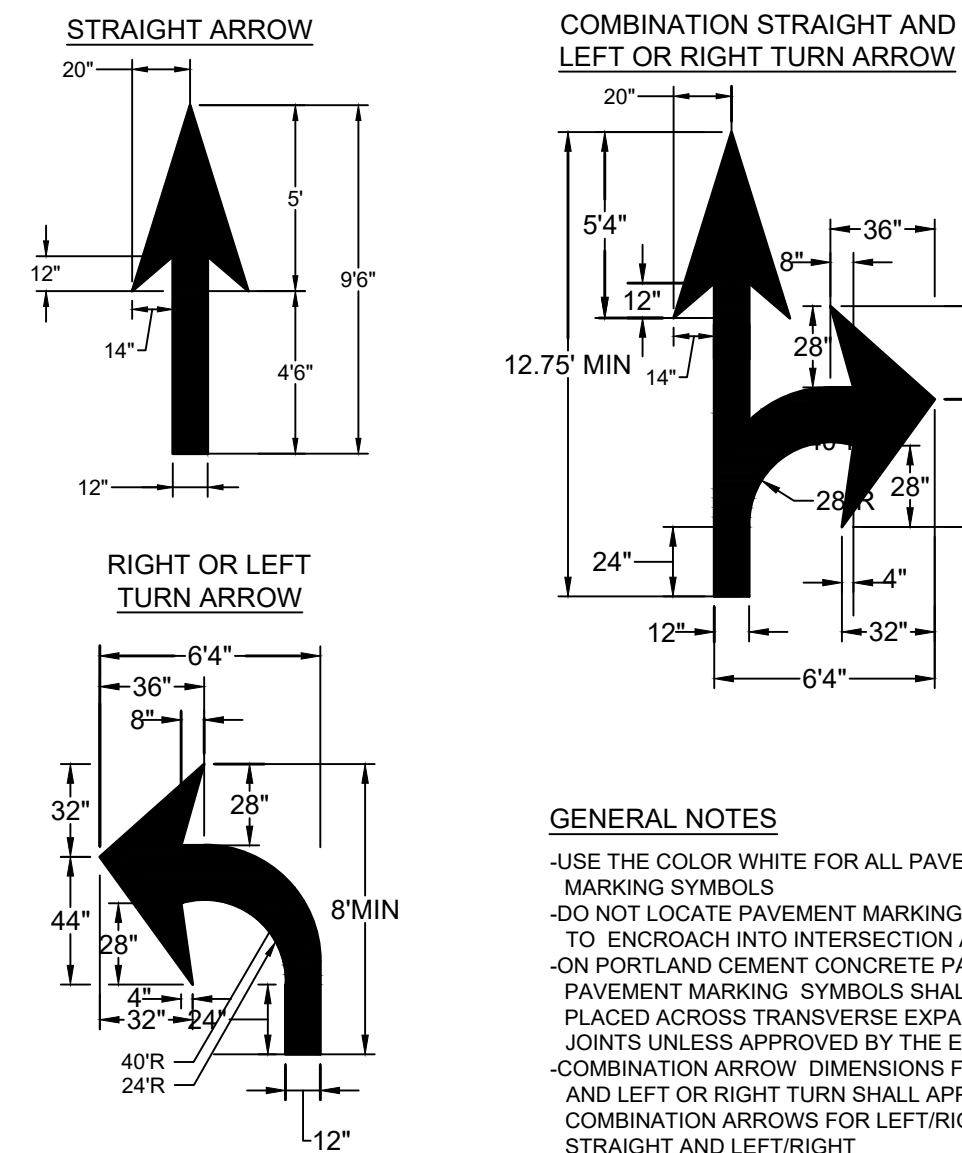
HANDICAP PARKING SIGN
NO SCALE



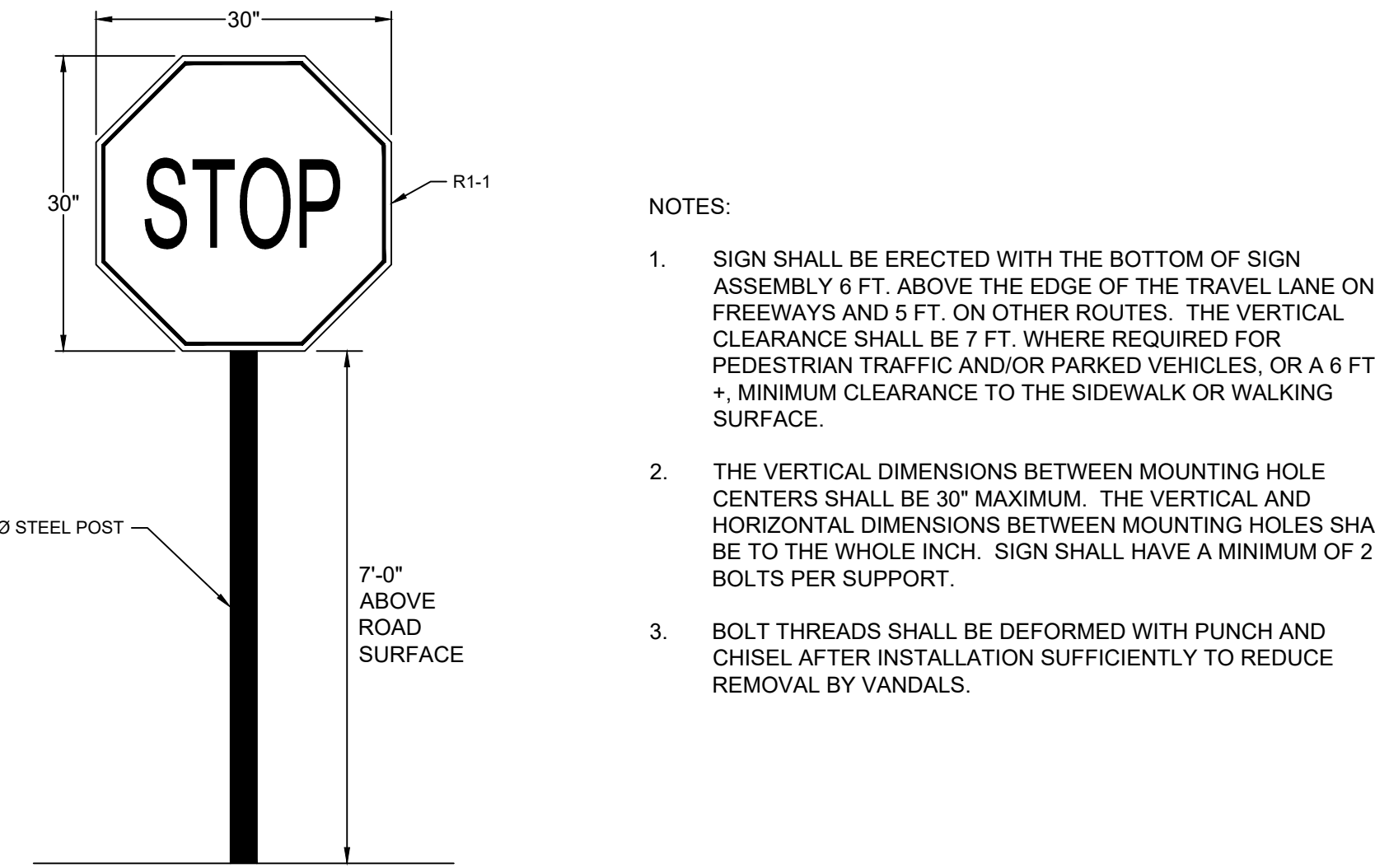
6' PRIVACY FENCE DETAIL
NO SCALE



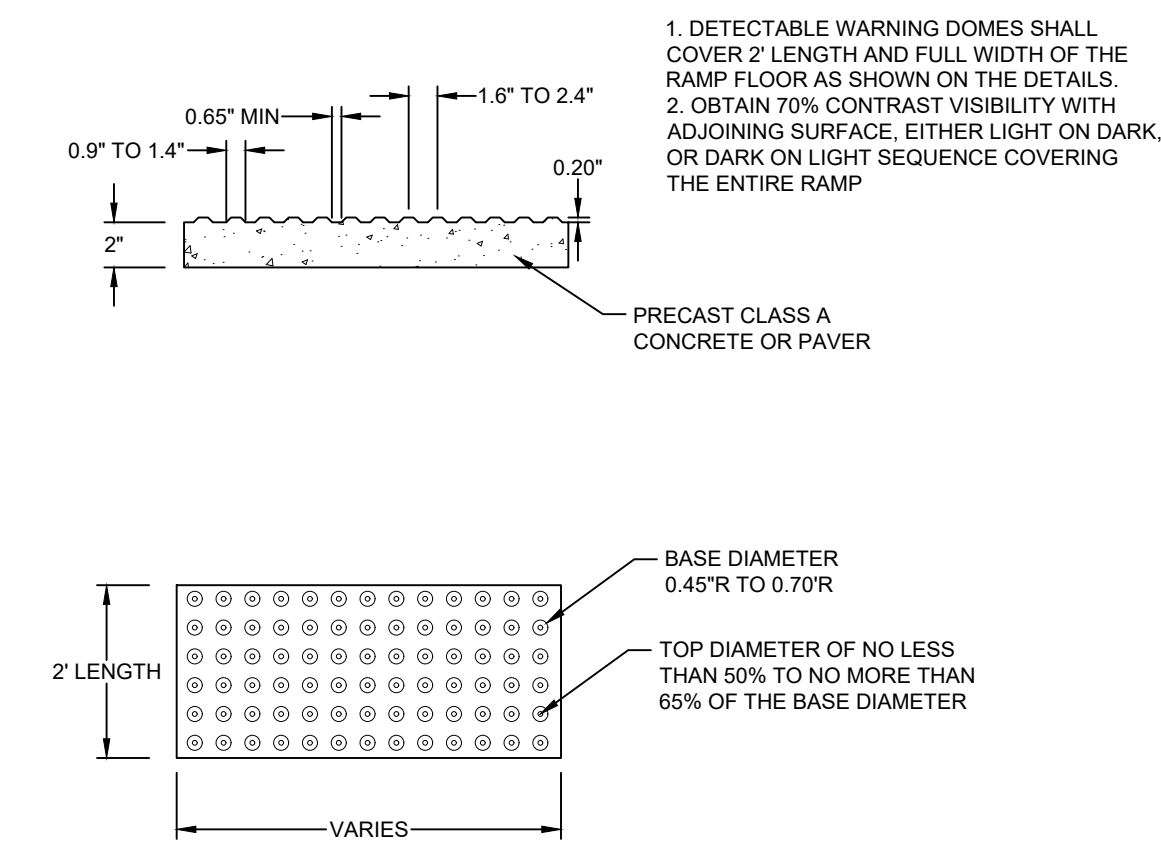
HANDICAP PARKING DETAIL
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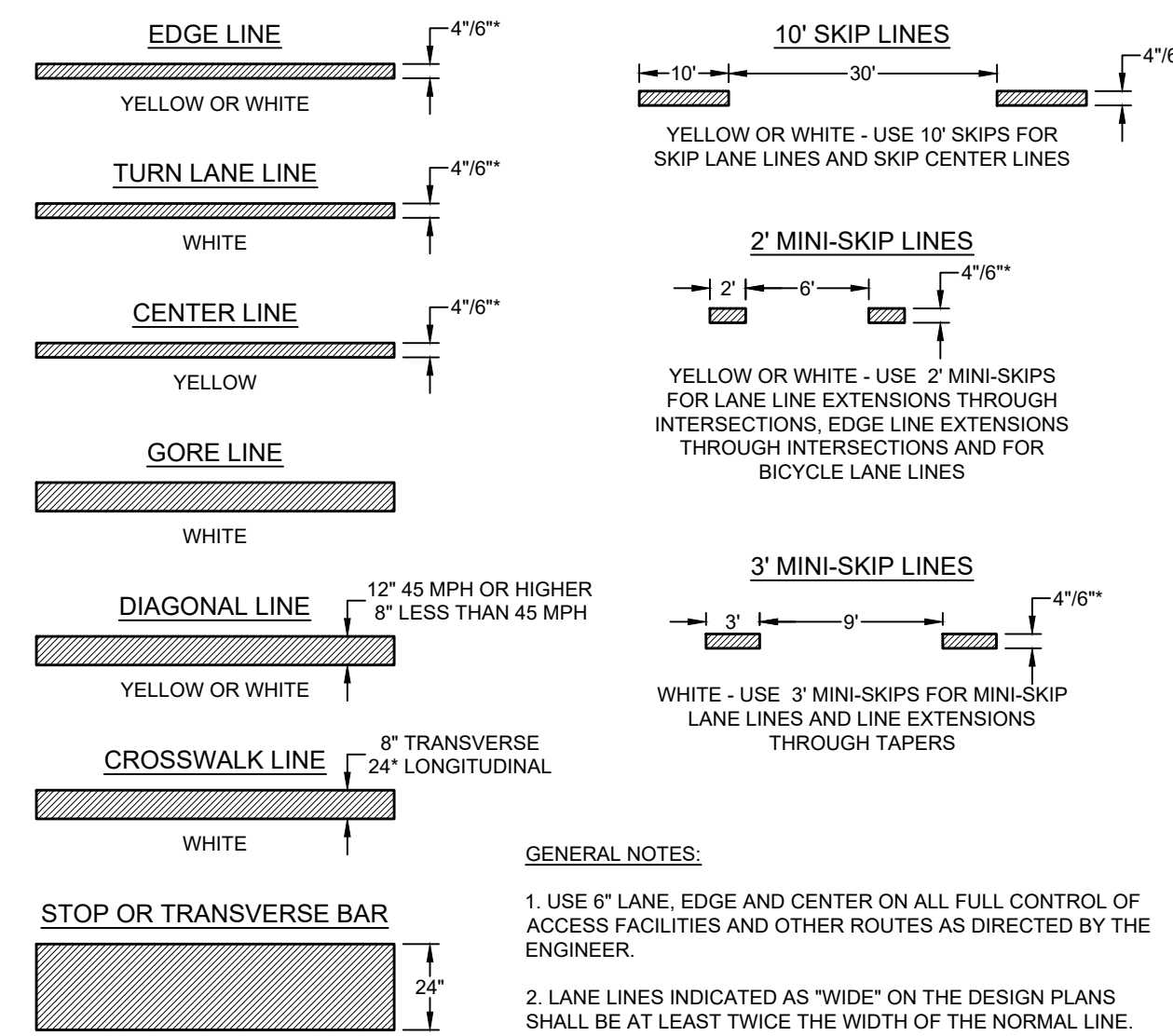
PAVEMENT MARKINGS - ARROWS
NO SCALE



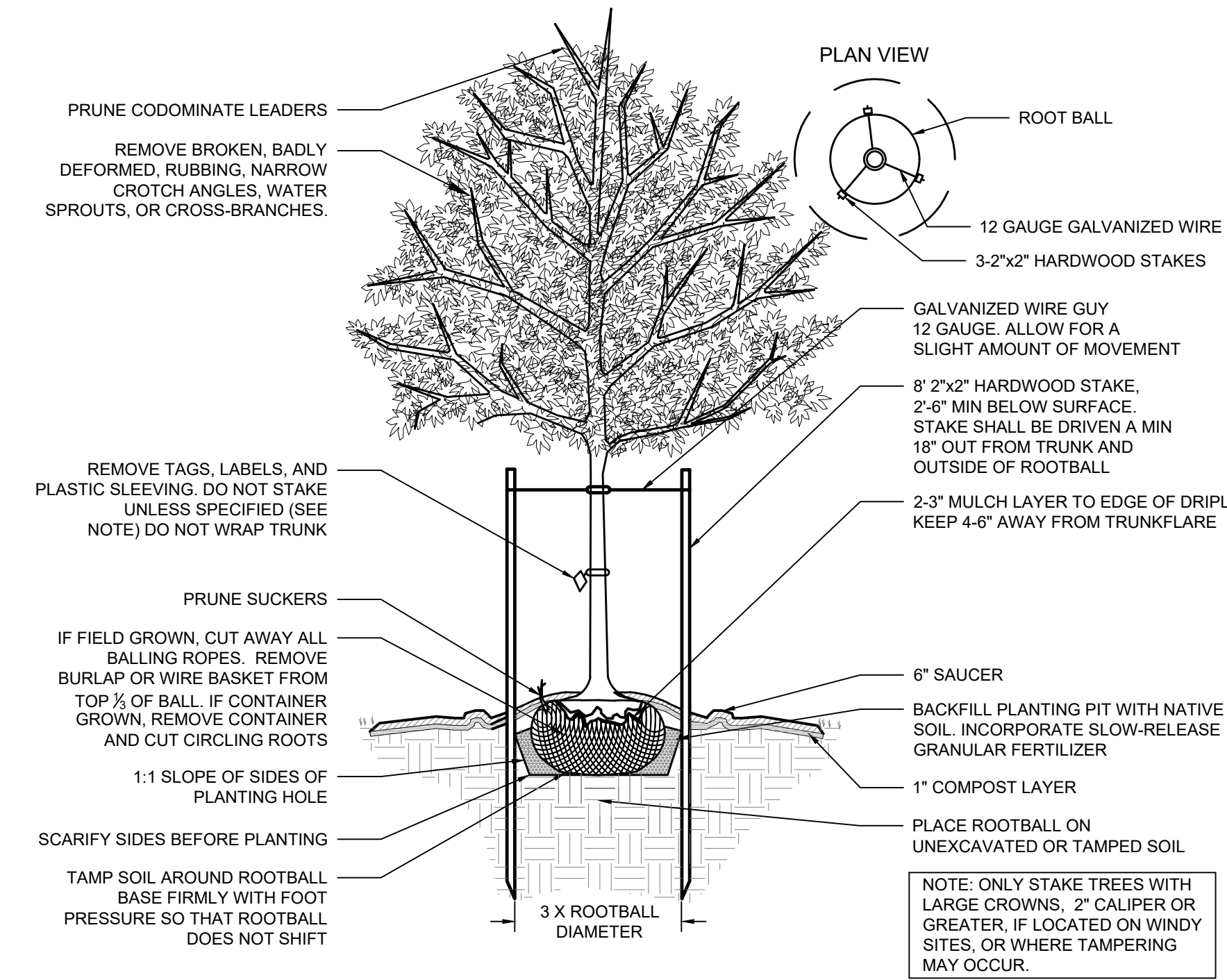
"STOP" SIGN DETAIL
NO SCALE



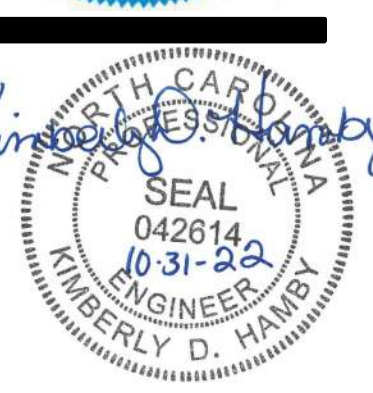
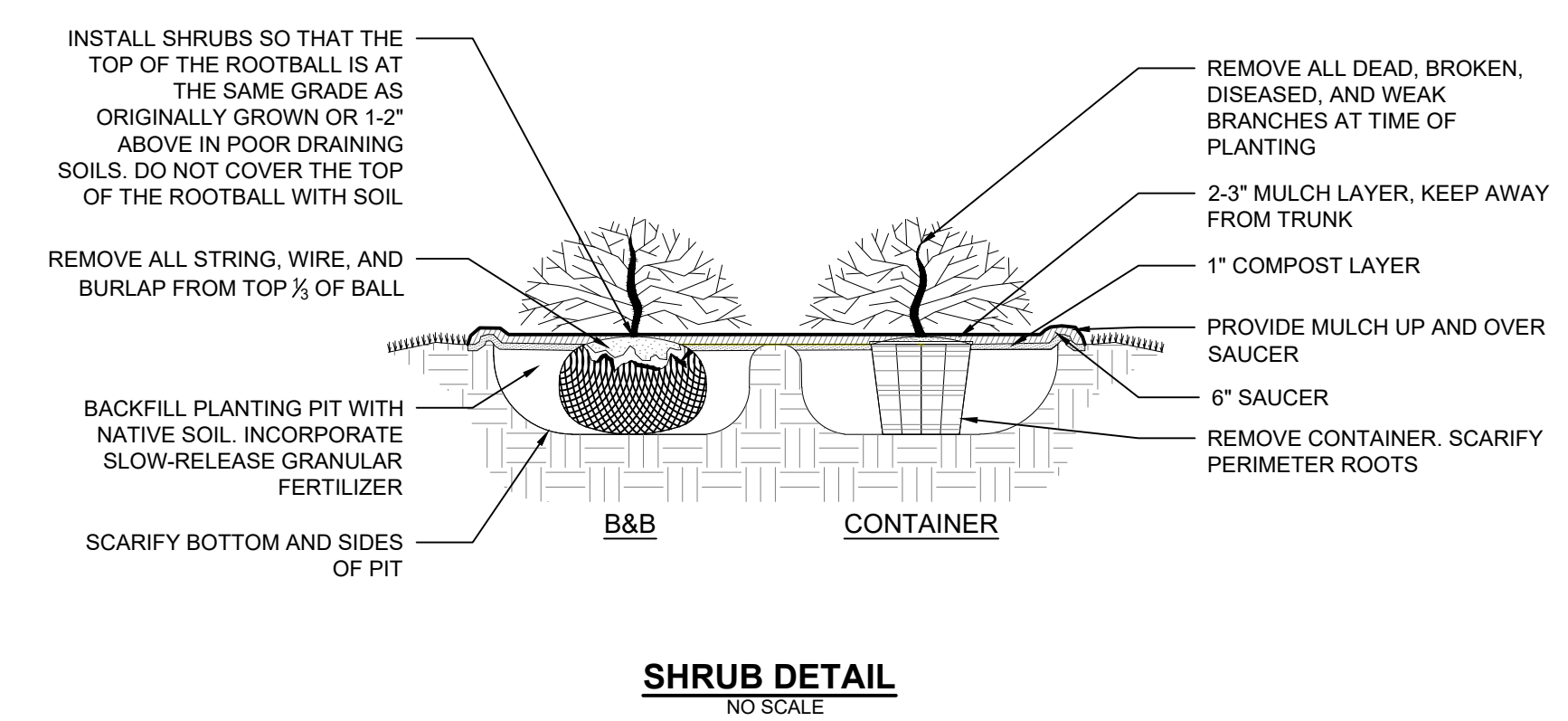
DETECTABLE WARNING DOMES
NO SCALE



PAVEMENT MARKINGS - LINE TYPES
NO SCALE



CANOPY TREE DETAIL
NO SCALE



PERMIT DRAWINGS NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions:
#1 2022-09-11 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date	9/14/22	Project No.	52044.004
Drawn By	JBF	Sheet No.	C6.1
Checked By	KDH	Sheet Title	SITE DETAILS



PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



DARE EMS #4 SOUTHERN SHORES, NC

SC-160LP STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-160LP.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LURF BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-HR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LIDS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT², THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LURF BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE TESTER MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

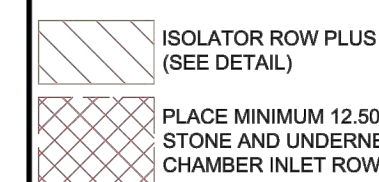
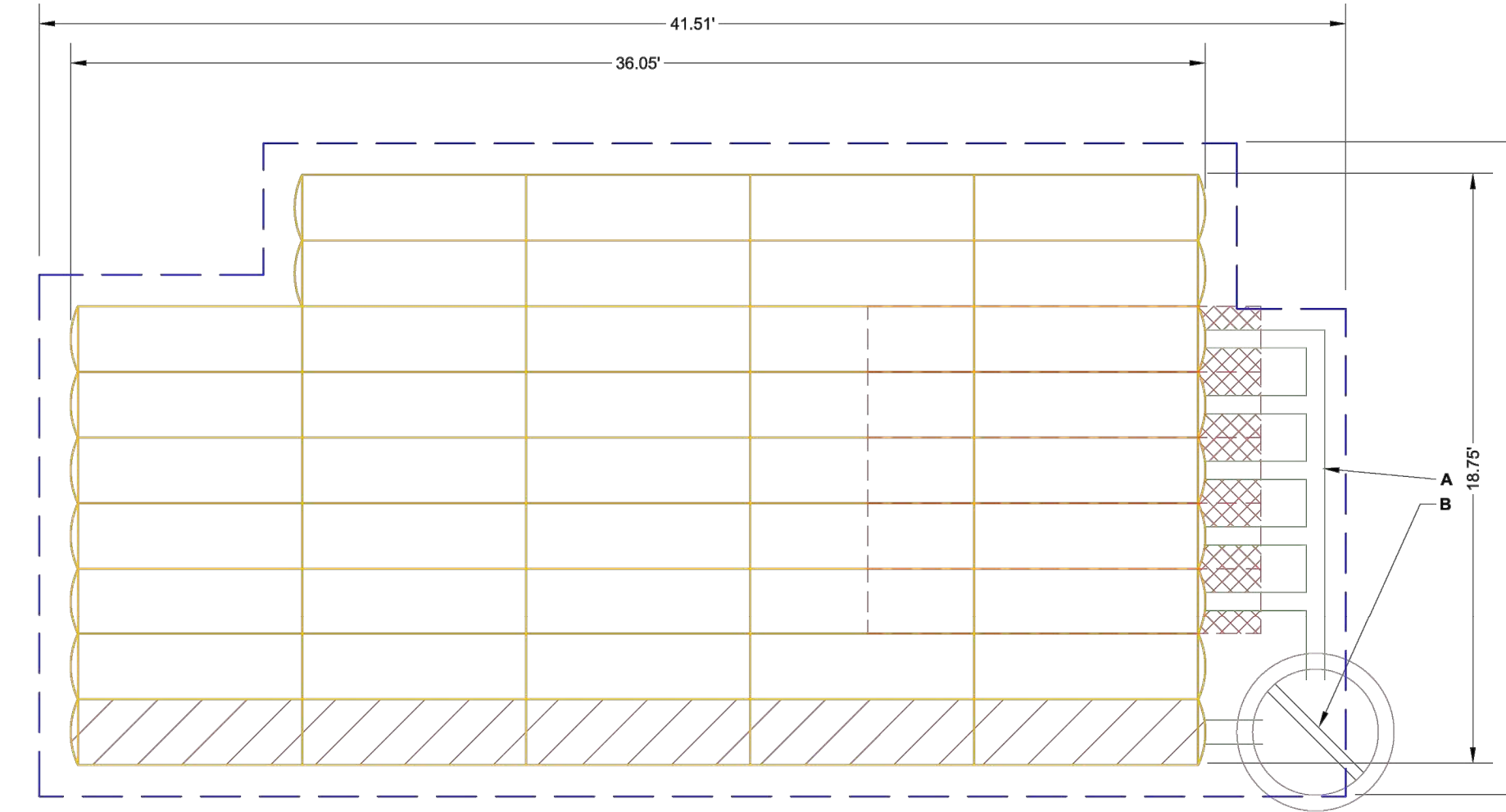
IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-160LP SYSTEM

- STORMTECH SC-160LP CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-160LP CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
- FOUNDATION STONE AND EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE, AASHTO M43 #3,357, 4, 467, 5, 56, OR 57.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING STONE.
- THE DEPTH OF FOUNDATION STONE SHALL BE DETERMINED BASED ON THE SUBGRADE BEARING CAPACITY PROVIDED BY THE SITE DESIGN ENGINEER.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES CONCERNING CHAMBER FOUNDATION DESIGN AND SUBGRADE BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- CHAMBERS SHALL BE INSTALLED "TOE TO TOE". NO ADDITIONAL SPACING BETWEEN ROWS IS REQUIRED.
- STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONEHOPPER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM PILE DRILLER OR EXCAVATOR.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-160LP CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
- FULL 30" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. CONTACT STORMTECH AT 1-888-892-2884 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE		ITEM ON LAYOUT		DESCRIPTION		*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	MINIMUM ALLOWABLE GRADE (TOP OF FLEXIBLE CONCRETE PAVEMENT)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	ITEM NO.	DESCRIPTION	INVERT	MAX FLOW	
43	STORMTECH SC-160LP CHAMBERS	19.56	19.56	19.56	19.56	19.56	A	8" x 8" BOTTOM MANHOLE, MOLDED FITTINGS	0.867	1.3 CFS IN	
44	STONE ABOVE (C)	19.87	19.87	19.87	19.87	19.87	B	CONCRETE STRUCTURE (DESIGN BY ENGINEER / PROVIDED BY OTHERS)			
45	STONE BELOW (D)	19.87	19.87	19.87	19.87	19.87					
46	STONE VOID	19.87	19.87	19.87	19.87	19.87					
828	INSTALLED SYSTEM VOLUME (CFT) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED)	10.03	10.03	10.03	10.03	10.03					
811	SYSTEM AREA (SQ)	4.36	4.36	4.36	4.36	4.36					
124.8	SYSTEM PERIMETER (B)	4.36	4.36	4.36	4.36	4.36					



- NOTES**
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE 46.33 FOR MANHOLE SIZING GUIDANCE.
 - DU TO THE ADJUSTMENT OF THE CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
 - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
 - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTALLED SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
 - NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

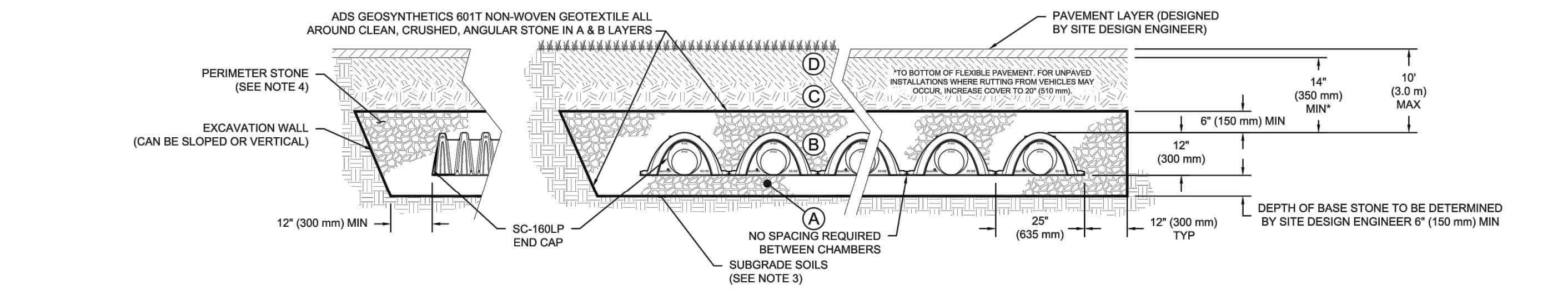
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DATE	11/14/22
DRAWN BY	CHK
PROJECT #	
DESCRIPTION	
DATE	11/14/22
INVERT	0.867
MAX FLOW	1.3 CFS IN
DATE	11/14/22
INVERT	0.867
MAX FLOW	1.3 CFS IN

SHEET 2 OF 5

ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 96% PROCTOR DENSITY FOR WELL GRADED MATERIAL, AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (55 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:**
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY BAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

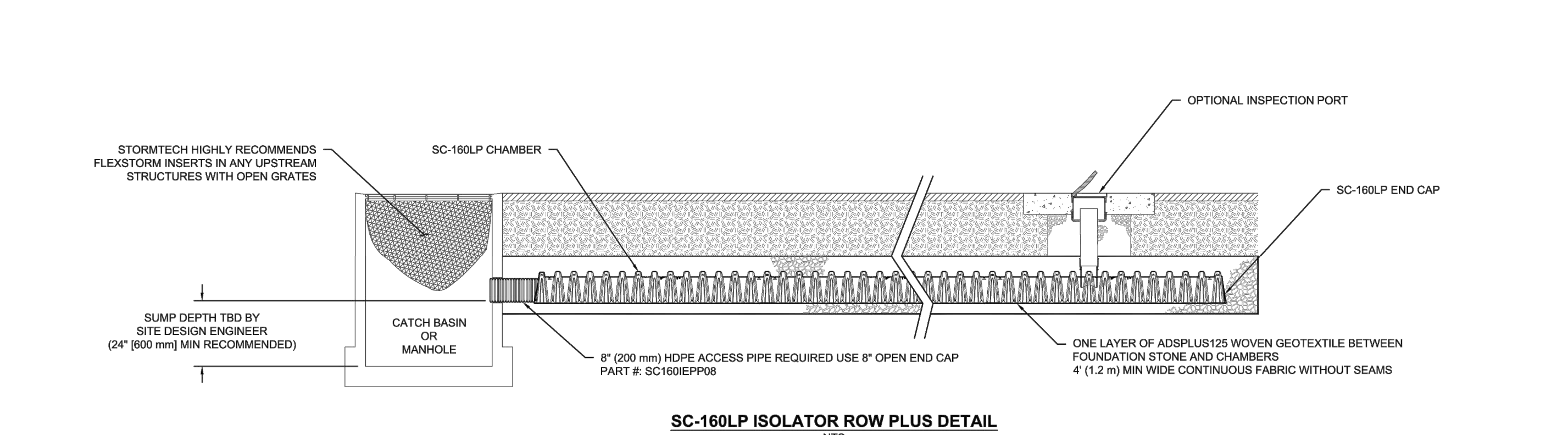


NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-HR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LIDS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT², THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

DARE EMS #4	
DATE	11/14/22
DRAWN BY	CHK
PROJECT #	
DESCRIPTION	
DATE	11/14/22
INVERT	0.867
MAX FLOW	1.3 CFS IN
DATE	11/14/22
INVERT	0.867
MAX FLOW	1.3 CFS IN

SHEET 3 OF 5



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON LIFTOFF LAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS**
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS**
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.**
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.**

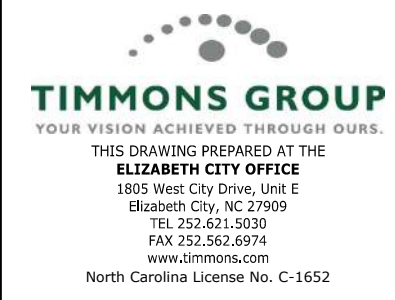
NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

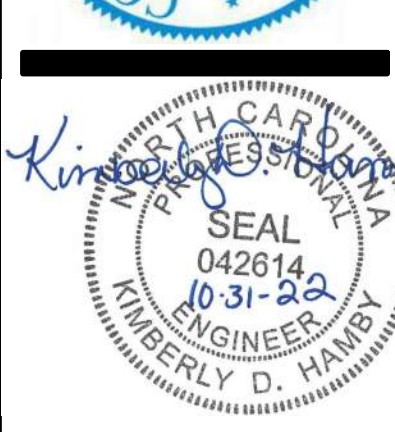
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DATE	11/14/22
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INVERT	0.867
MAX FLOW	1.3 CFS IN
DATE	11/14/22
INVERT	0.867
MAX FLOW	1.3 CFS IN

SHEET 4 OF 5

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NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA

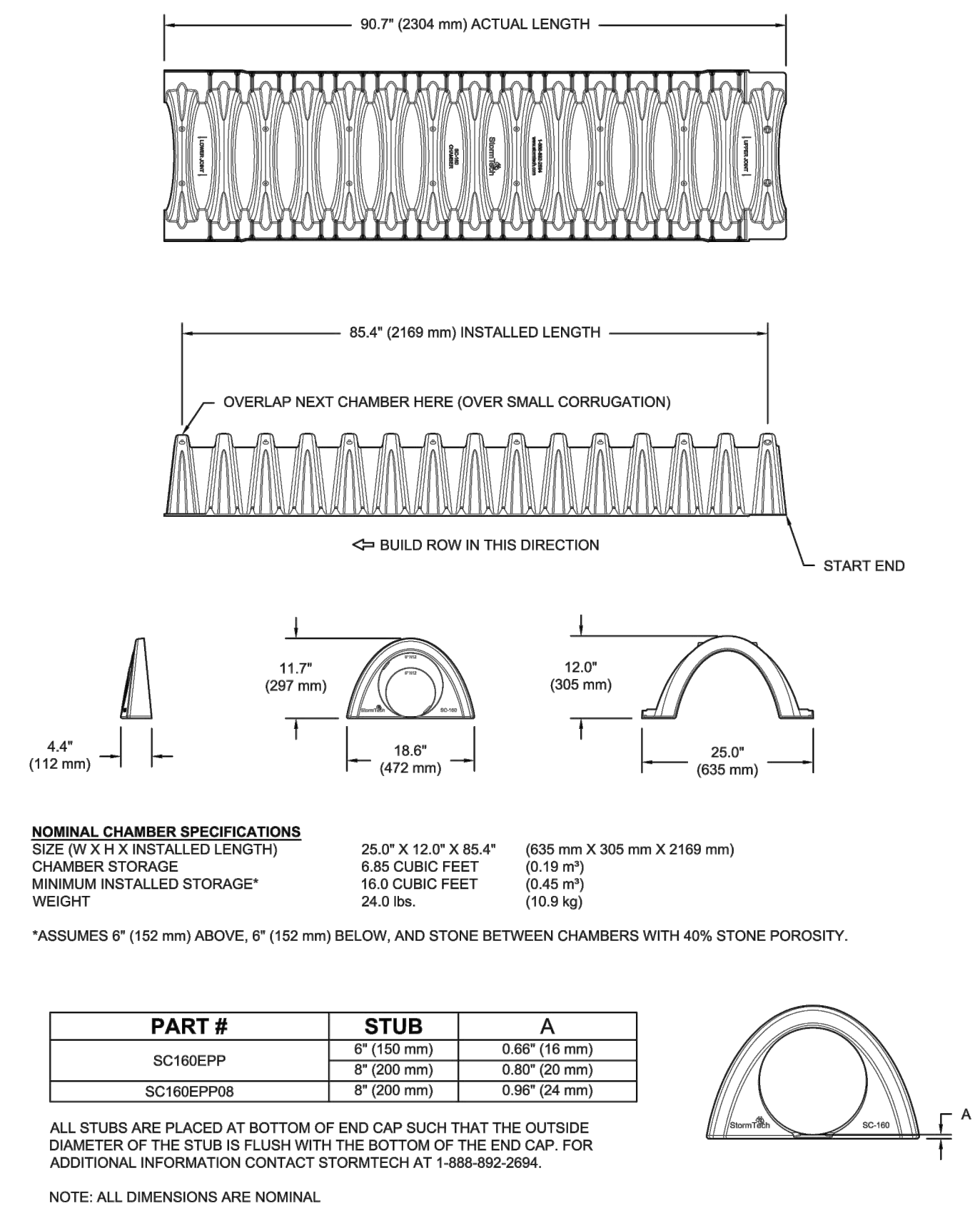


PERMIT
DRAWINGS
NOT FOR
CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Date	Project No.
9/14/22	52044.004
Drawn By	Sheet No.
JBF	C6.2
Checked By	Sheet Title
KDH	STORM WATER DETAILS

SC-160LP TECHNICAL SPECIFICATION
NYS



NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH) 28.0\"/>

PART #	STUB	A
SC160EPP	8\"/>	
SC160EPPVB	8\"/>	

ALL STUBS ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

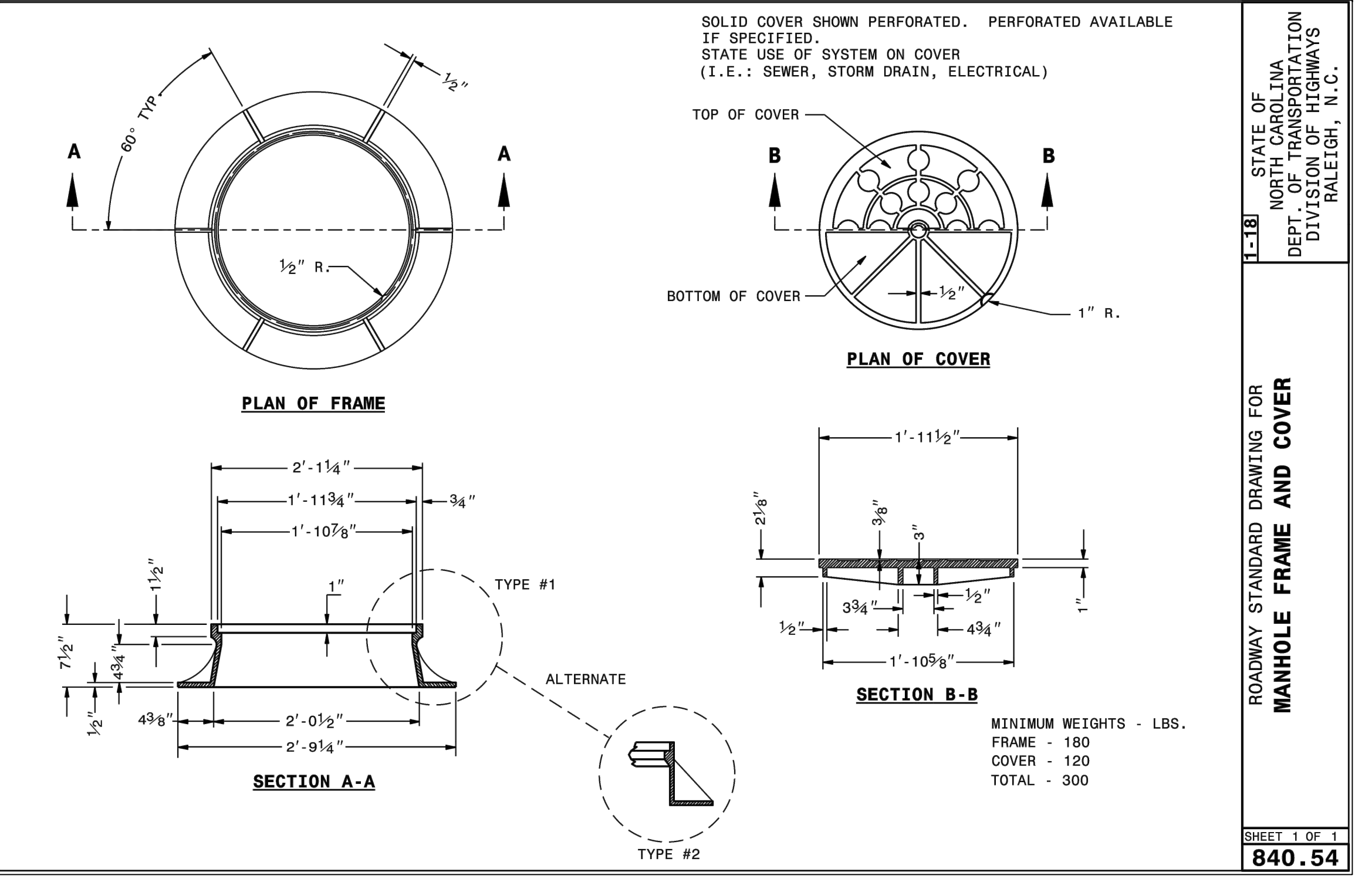
DARE EMS #4
SOUTHERN SHORES, NC
BRAUN, NH

DATE: PROJECT #:
DRAWN: CHK: DESCRIPTION:
DATE: DRAW: CHK: DESCRIPTION:

StormTech
Chamber System
888-892-2694 | WWW.STORMTECH.COM

ADS
6640 FREEDMAN BLVD
SUITE 100
RALEIGH, NC 27605
1-800-763-7473

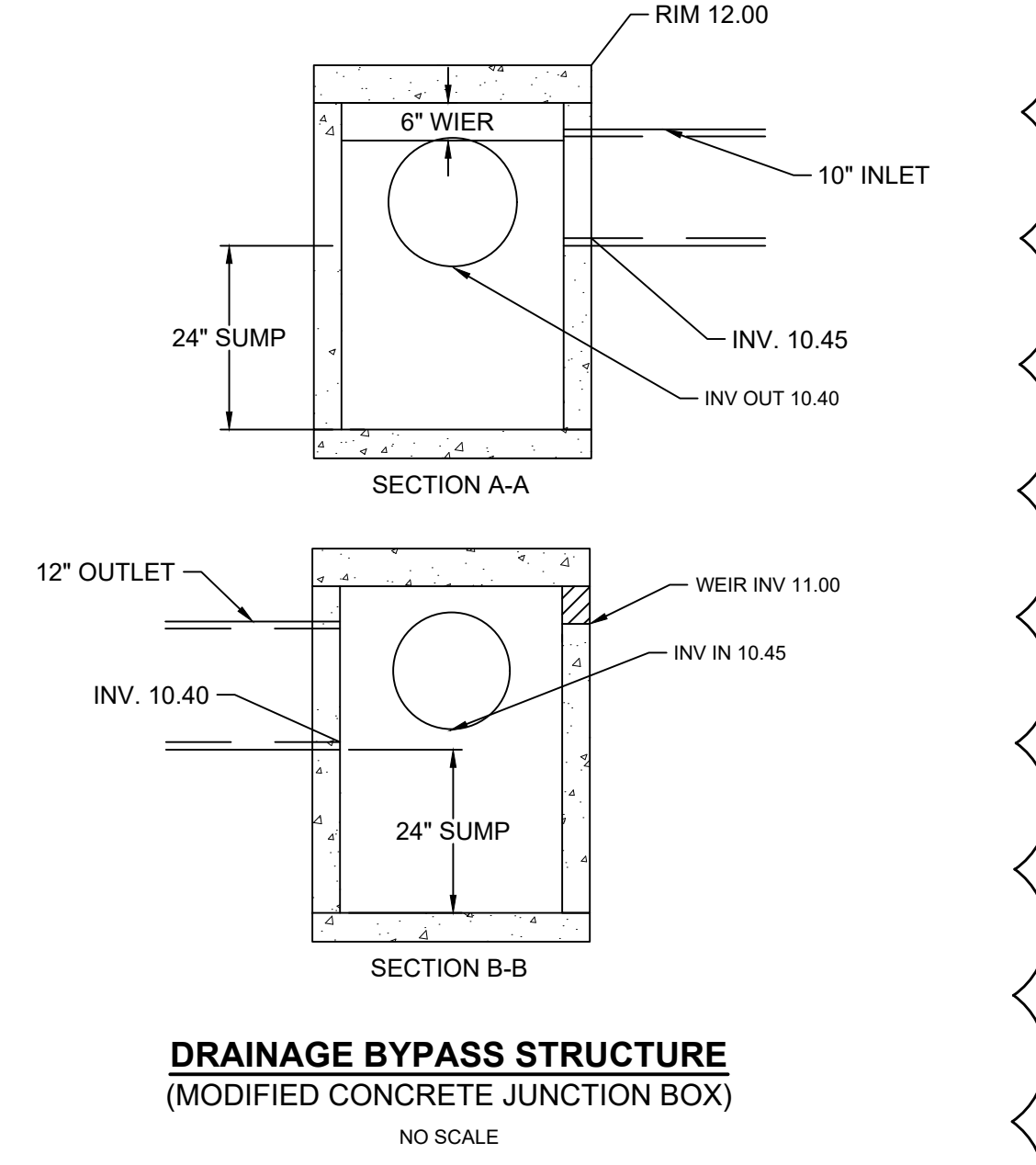
SHEET 5 OF 5



ROADWAY STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

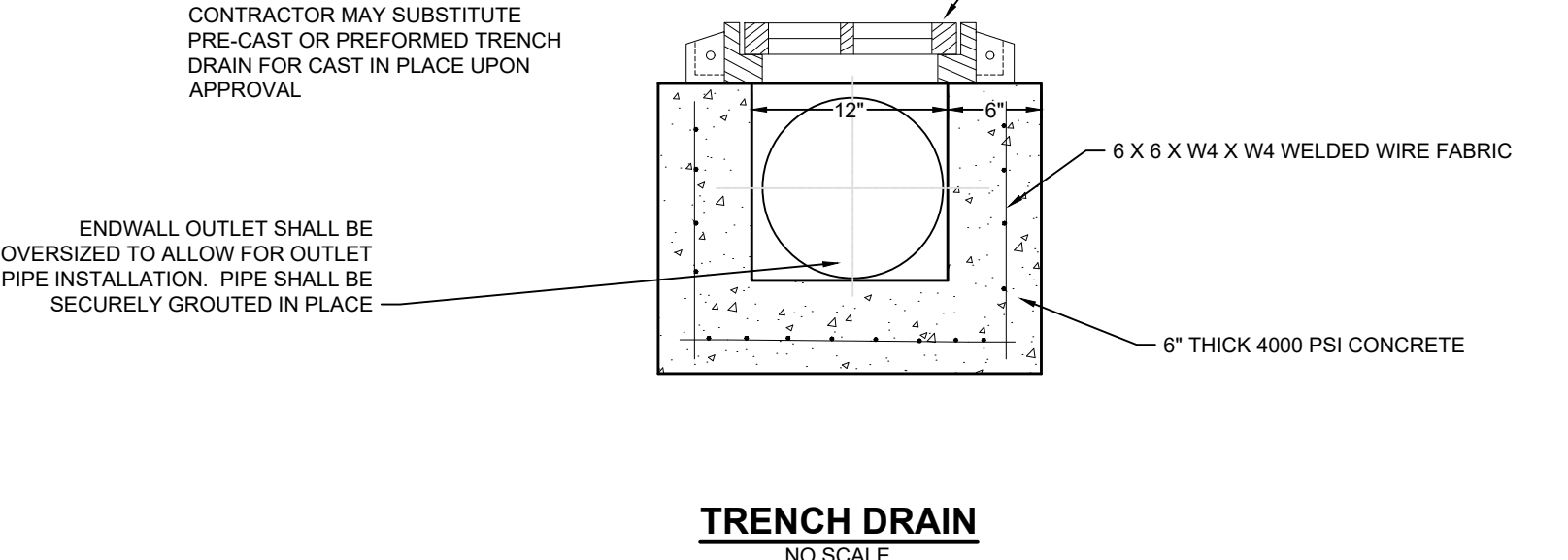
SHEET 1 OF 1
840.54



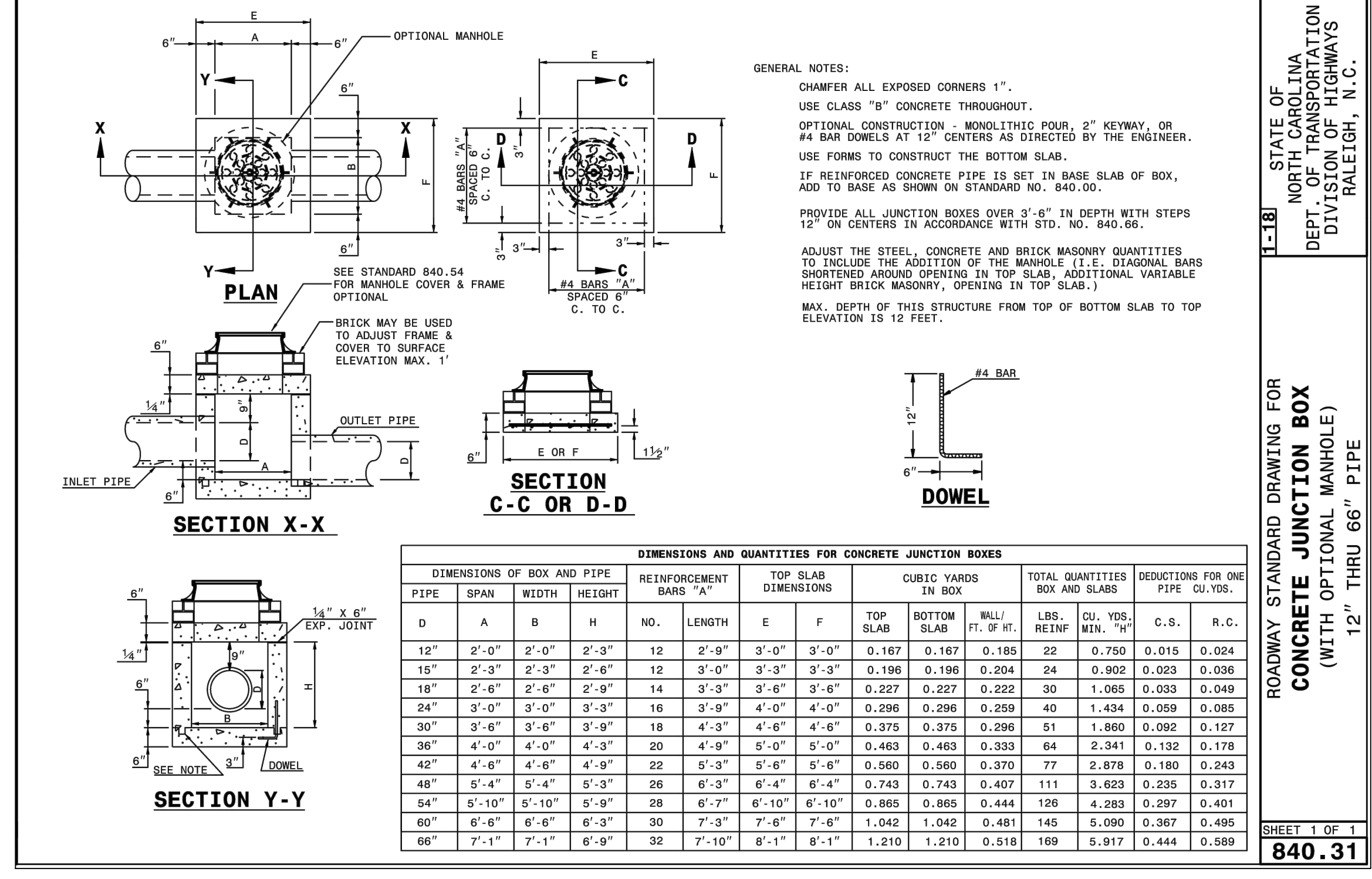
DRAINAGE BYPASS STRUCTURE
(MODIFIED CONCRETE JUNCTION BOX)

NO SCALE

ADD #3



TRENCH DRAIN
NO SCALE



ROADWAY STANDARD DRAWING FOR
CONCRETE JUNCTION BOX
(WITH OPTIONAL MANHOLE)

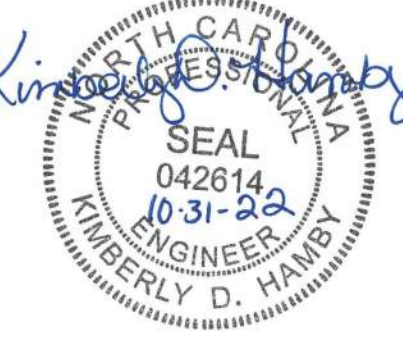
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

12" THRU 66" PIPE

SHEET 1 OF 1
840.31



NEW BUILDING FOR
DARE COUNTY
EMS STATION 4
28 E DOGWOOD TRAIL
SOUTHERN SHORES, NORTH CAROLINA



PERMIT DRAWINGS
NOT FOR CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Date: 9/14/22
Project No: 52044.004

Drawn by: KDH
Checked by: KDH
Sheet No: C6.3

Sheet Title: STORM WATER DETAILS

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGO1 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCGO1 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the designated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Required Ground Stabilization Timeframes	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches and perimeter slopes	7	None	
(b) High Quality Water (HQW) Zones	7	None	
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.	
(d) Slopes 3:1 to 4:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed	
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless there is zero slope	

Notes: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roll-on erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Strips or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roll-on erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized, and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and disposed of at an approved disposal facility.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. Inspections with a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Report.

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(e) Corrective actions have been taken to EESC measures.	Initial and date a copy of the approved EESC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

SECTION C: REPORTING

1. Occurrences that Must be Reported

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 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Release of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref. 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref. 40 CFR 302.4) or G.S. 148-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Environmental Emergency Center personnel at (800) 858-0568.

Occurrence

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NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

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NGO1 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

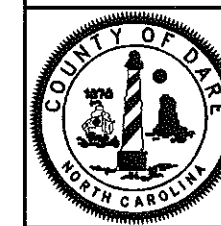
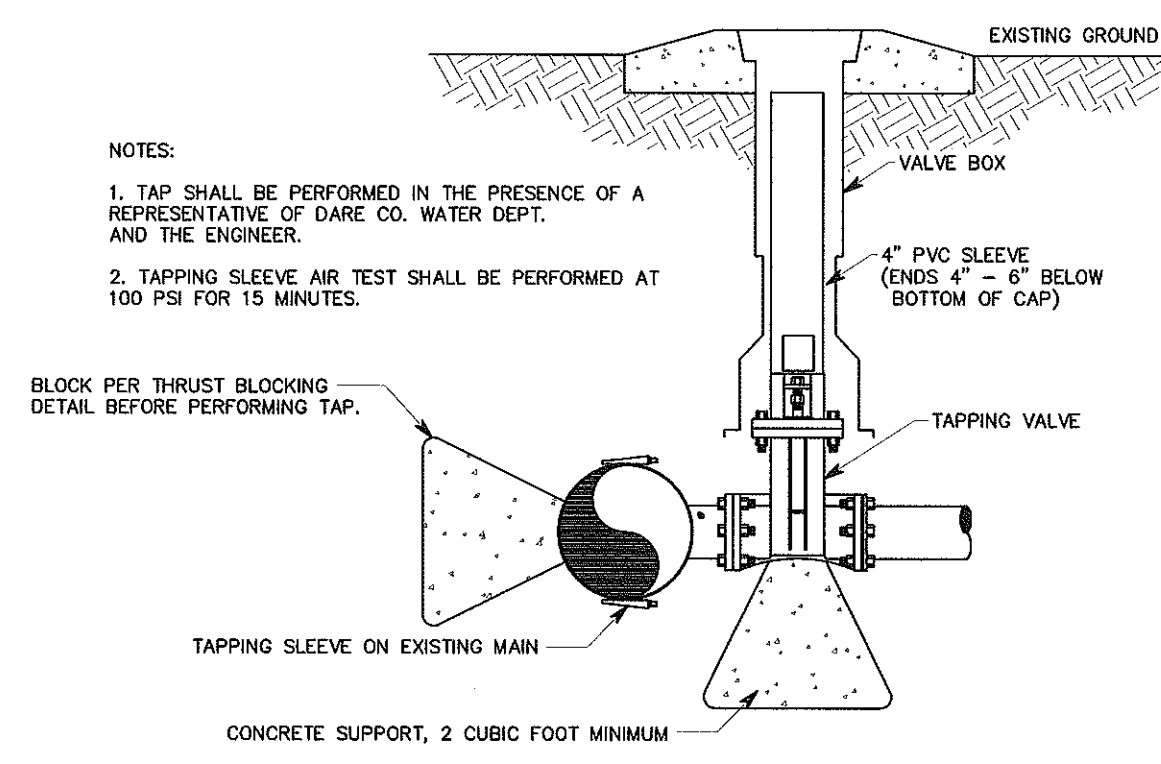
NGO1 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

CONSTRUCTION SEQUENCING

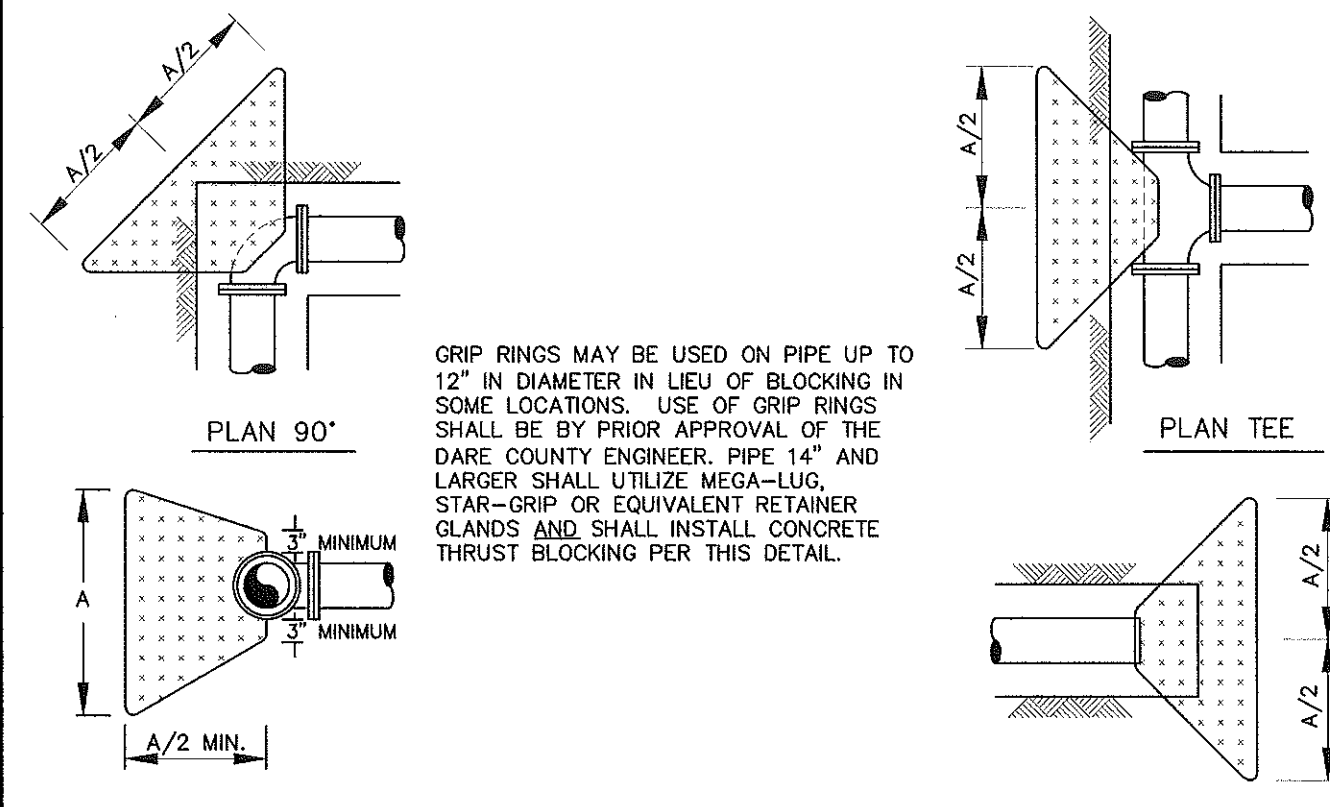
- INSTALL EROSION CONTROL DEVICES AT SITE DISCHARGE POINTS AND ALL SILT FENCE TO PREVENT OFF SITE SEDIMENTATION.
- PERFORM CLEARING DEMOLITION WORK.
- INSTALL THE REMAINING SEDIMENT AND EROSION CONTROL PROTECTION.
- INSTALL THE ASPHALT FOR THE PROPOSED PARKING & DRIVEWAYS.
- PROVIDE GROUND COVER IN ACCORDANCE WITH DETAIL MARKED 'EROSION CONTROL MEASURES', THIS SHEET.
- MONITOR AND MAINTAIN THE INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
- REMOVE ANY REMAINING CONTROL DEVICES.

PERMANENT SEEDING SCHEDULE FOR COAST



TAPPING DETAIL

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
7



CONCRETE THRUST BLOCK SCHEDULE

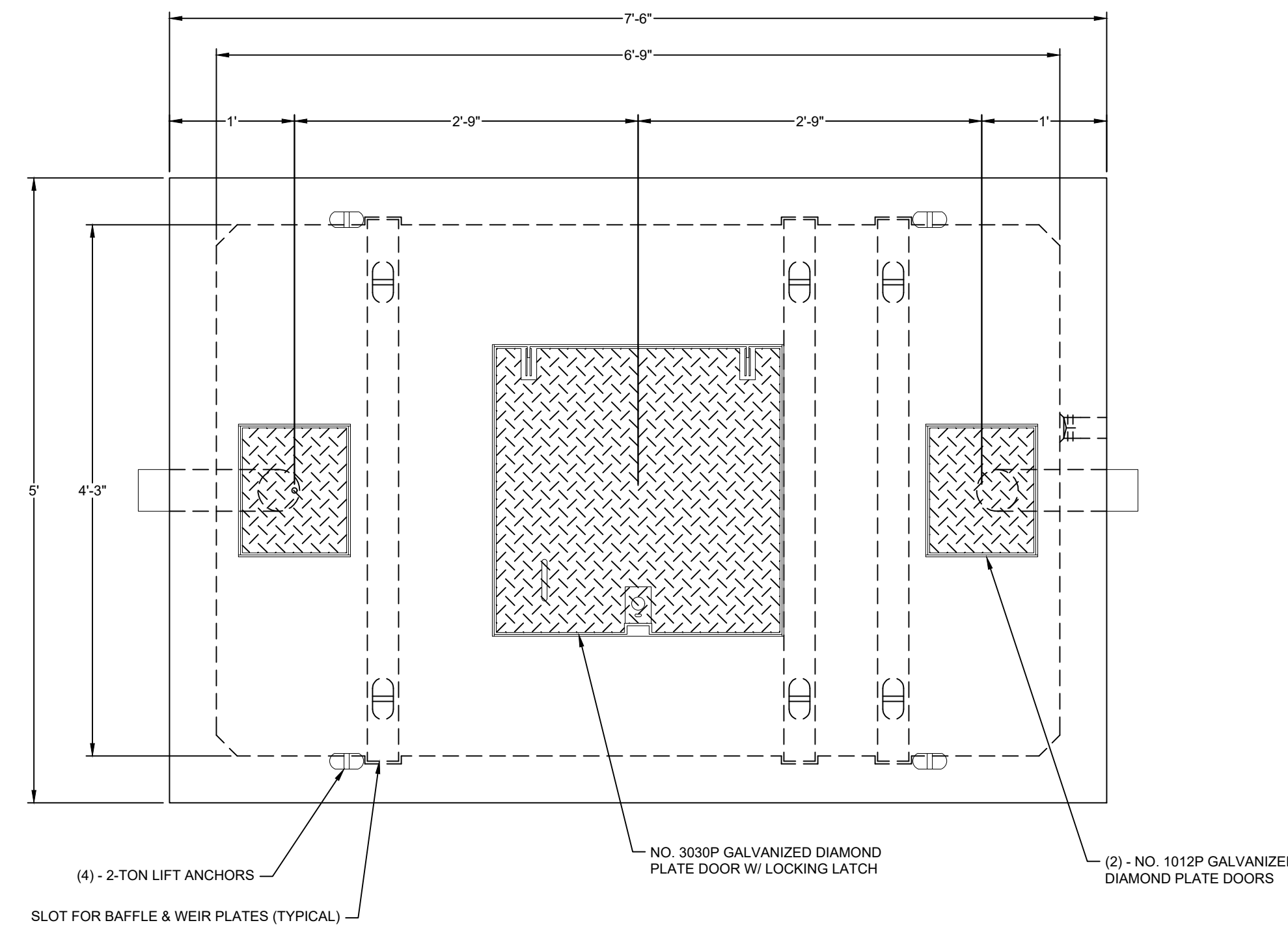
FITTING	PIPE SIZE (NOM. DIA. IN INCHES)										
	2"	4"	6"	8"	10"	12"	16"	18"	20"	24"	
TEE	1.6	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3	
90° BEND	1.5	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3	
45° BEND	1.0	1.4	2.1	2.8	3.5	4.3	5.5	6.2	6.9	7.7	
22 1/2° BEND	.8	1.0	1.5	2.0	2.5	3.1	4.0	4.5	4.9	5.5	

TABLE "A" DIMENSIONS (IN FEET)

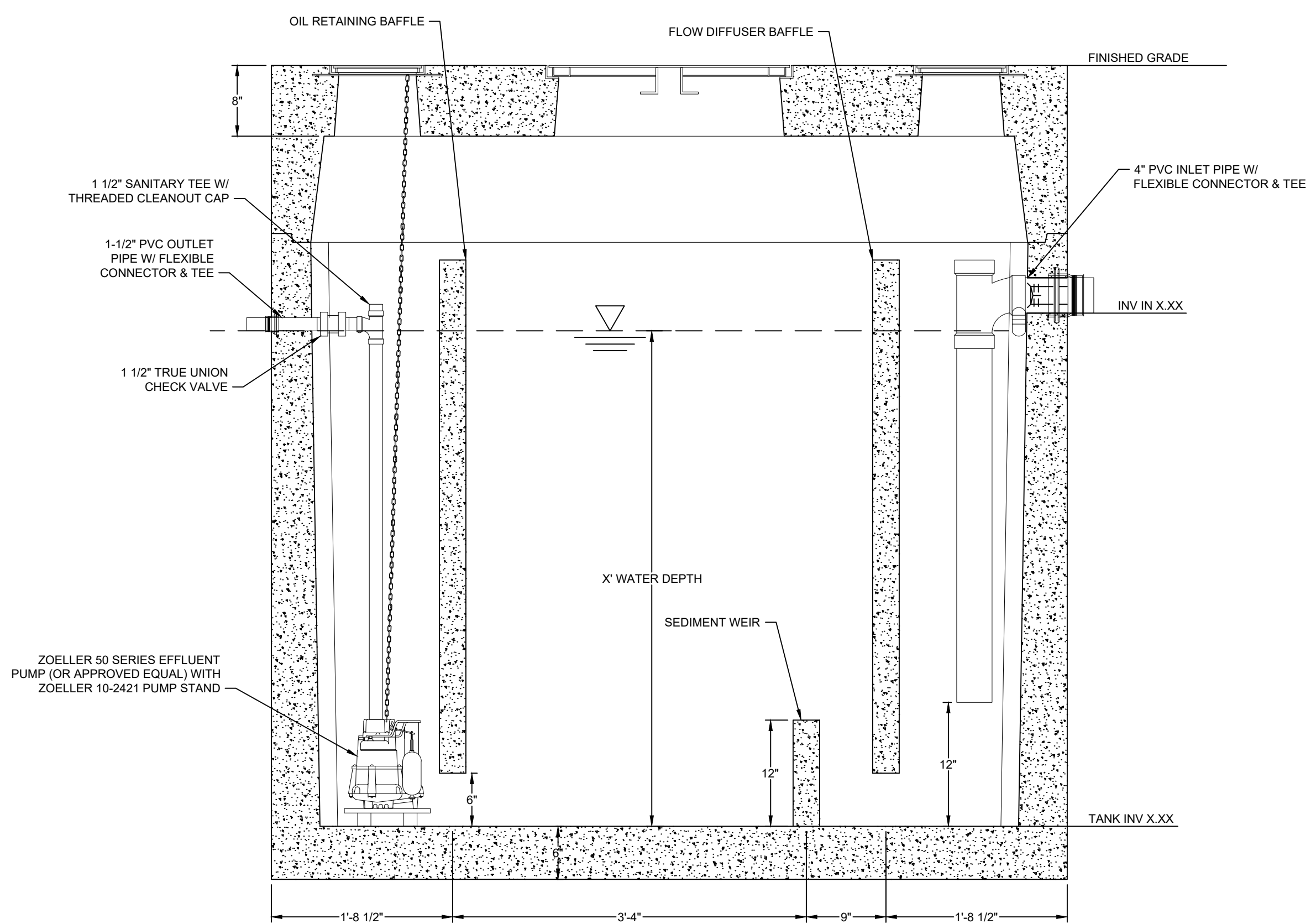


THRUST BLOCK DETAIL

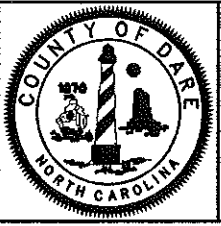
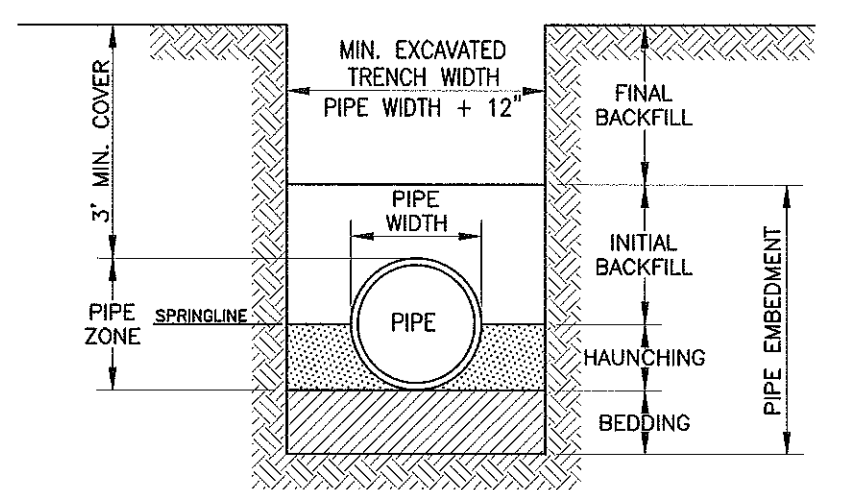
NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
11



PLAN VIEW
NO SCALE

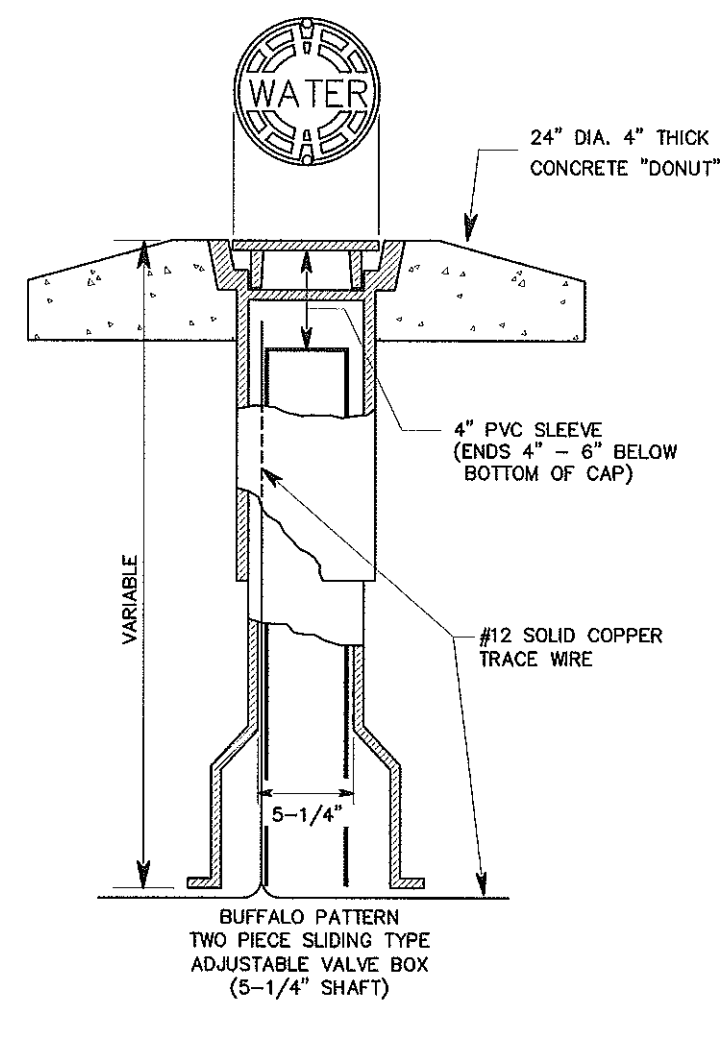


OILWATER SEPARATOR
NO SCALE



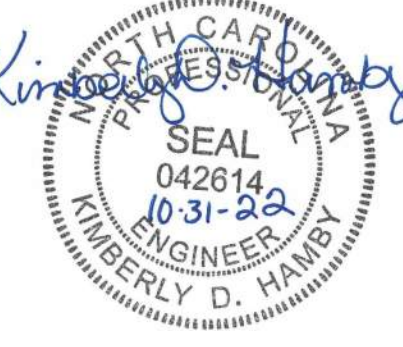
TRENCH DETAIL

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
16



VALVE BOX DETAIL

NOT TO SCALE
ISSUED: 7/31/18
DETAIL NUMBER
14



PERMIT
DRAWINGS
NOT FOR
CONSTRUCTION

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions:
#1 2022-09-01 UPDATES PER ARCHITECT COMMENTS
#2 2022-10-31 ADDENDUM #3 PER BCC

Date	9/14/22	Project No.	52044.004
Drawn By	JBF	Sheet No.	C6.5
Checked By	KDH	Sheet Title	UTILITY DETAILS





PERMIT DRAWINGS NOT FOR CONSTRUCTION

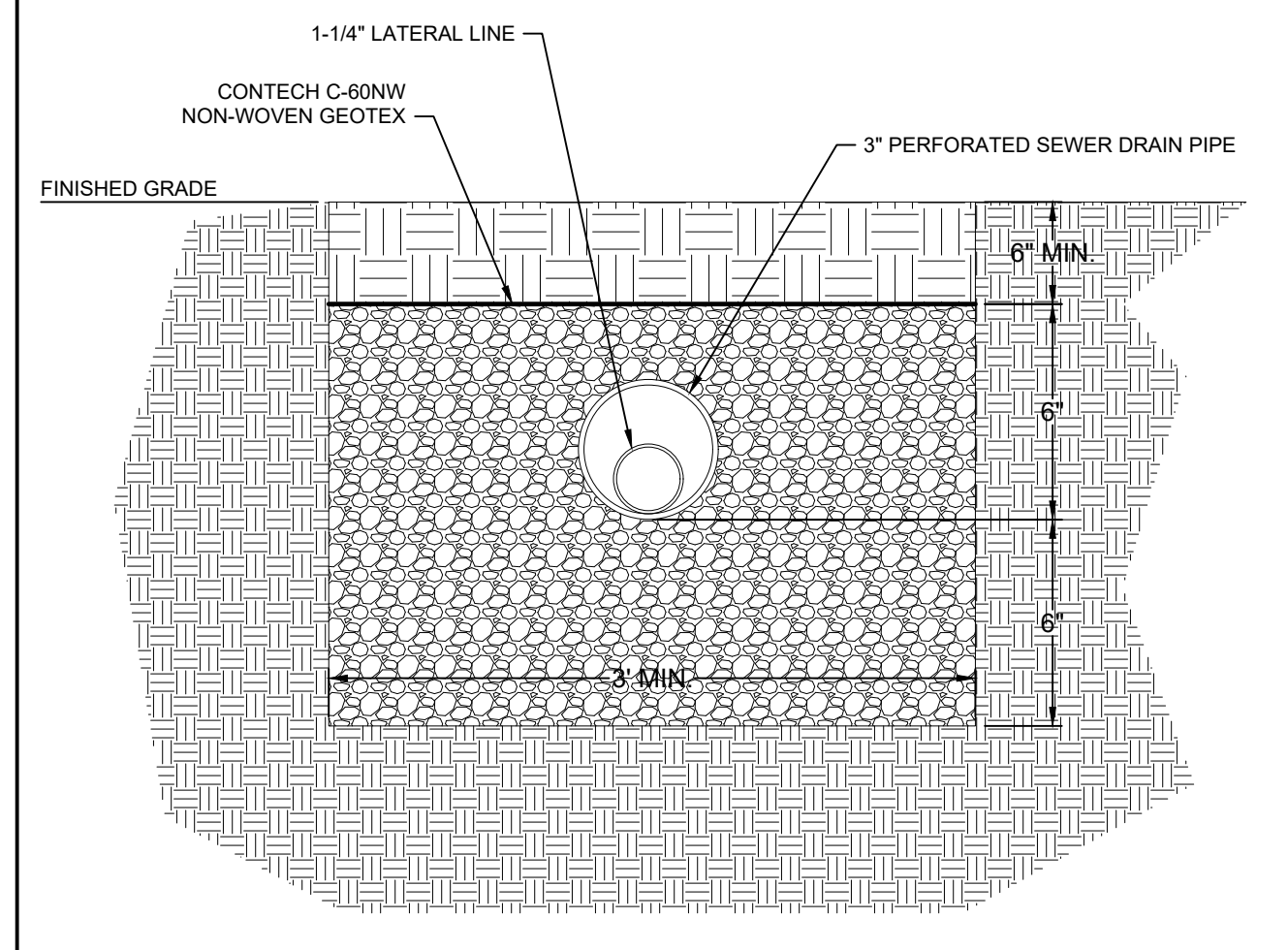
GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all dimensions.

Revisions:
#1 02/22/2021 UPDATES PER ARCHITECT COMMENTS
#2 2025-10-31 ADDENDUM #3 PER BCC

Date: 9/14/22
Project No: 52044.004

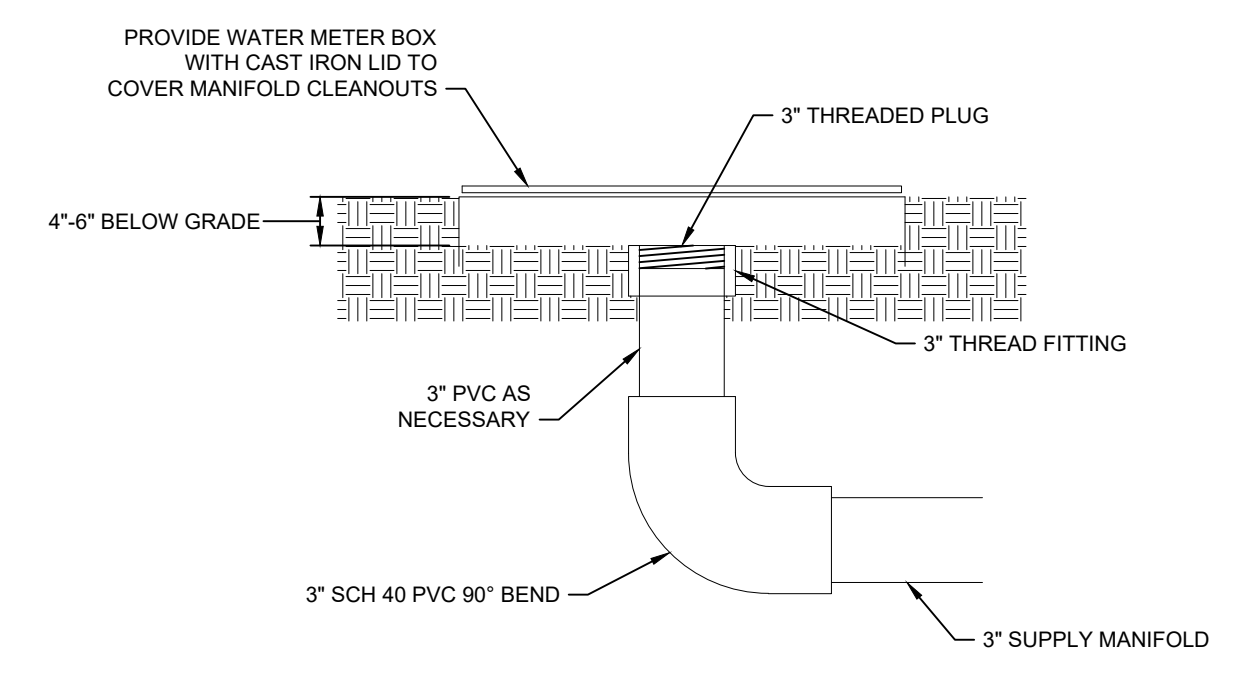
Drawn By: JBF
Sheet No: C6.6

Checked By: KDH
Utility Details



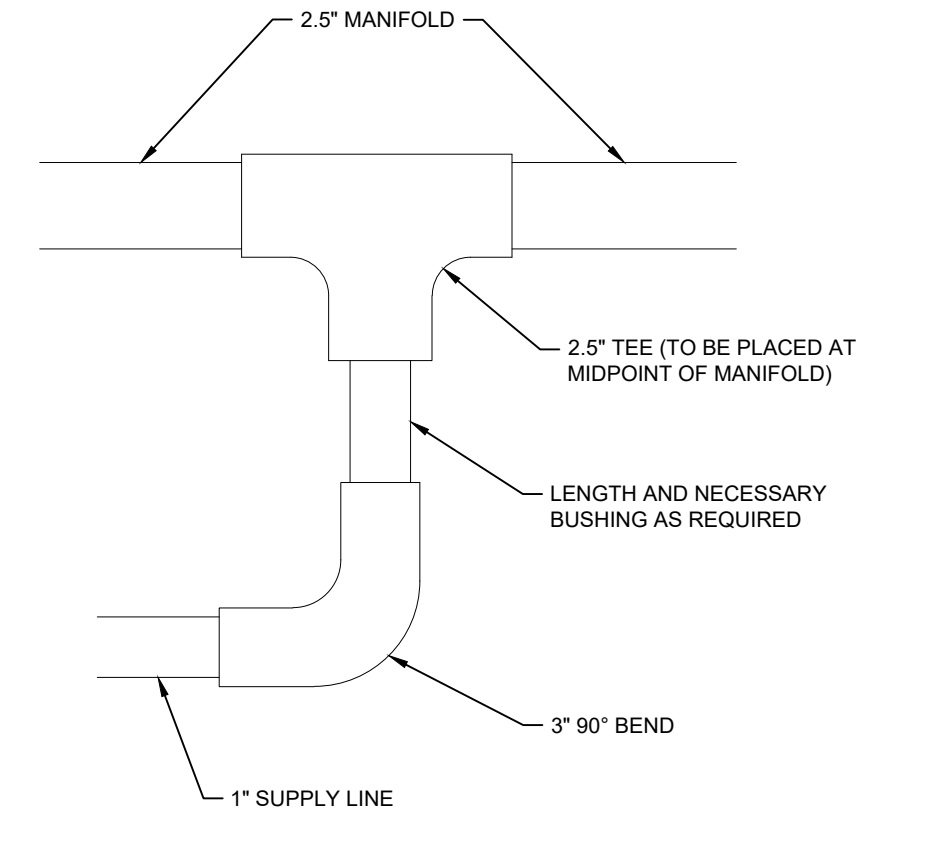
- NOTES:
1. NO GRAVEL IS TO BE PLACED WITHIN 24" OF SUPPLY MAINFOLD TEE
2. NO GRAVEL IS TO INTERCEPT MANFOLD. MANFOLD TRENCH SHALL BE BACKFILLED WITH COMPACTED SOIL 12" EACH SIDE OF MANFOLD.
3. TRENCH SHALL NOT EXTEND MORE THAN 24" PAST THE END OF THE PIPE.

TYPICAL TRENCH SECTION
NO SCALE

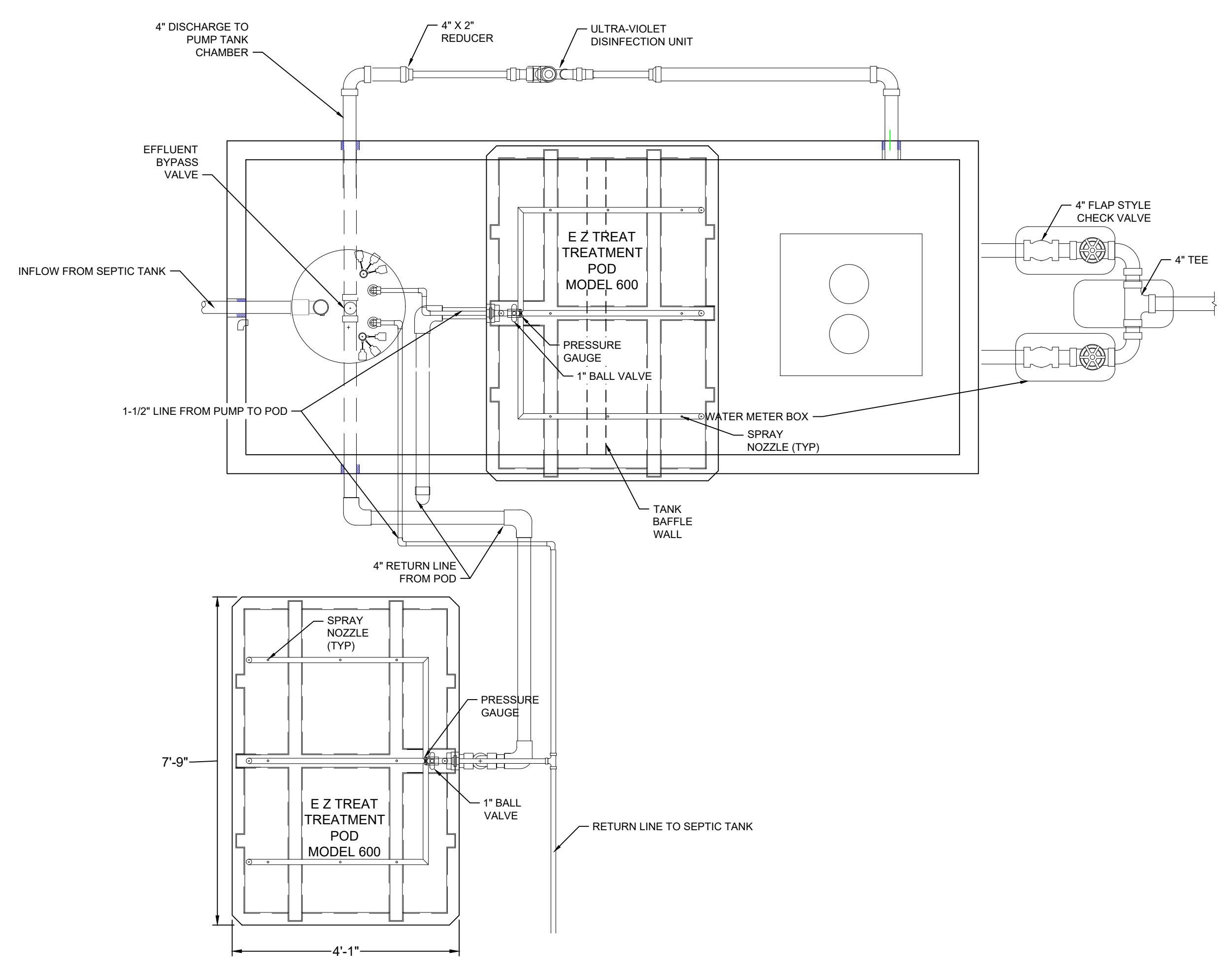


- NOTE:
USE ALL SCHEDULE 40 PVC PRESSURE FITTINGS. DWV FITTINGS NOT ALLOWED ON PRESSURE SYSTEM

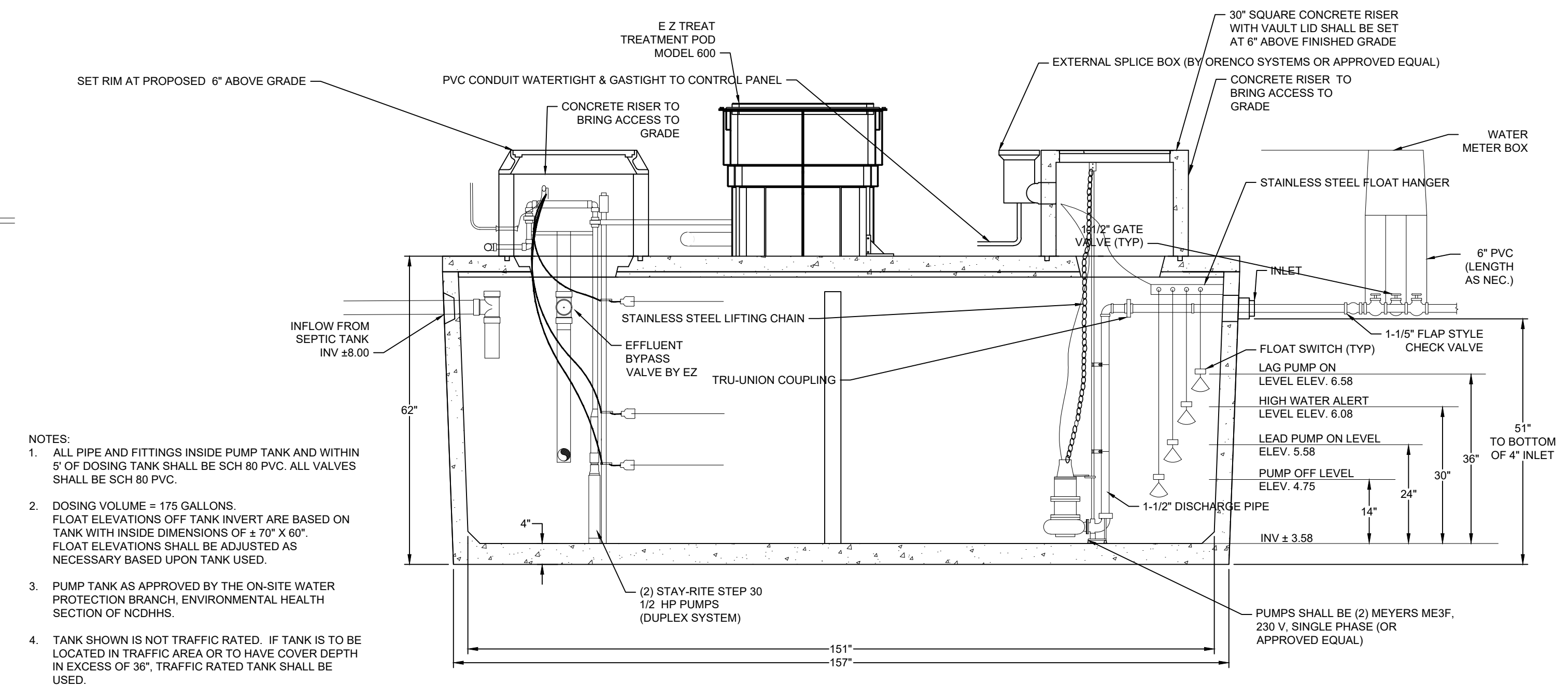
SUPPLY MANIFOLD CLEAN-OUT
NO SCALE



SUPPLY LINE TO MANIFOLD CONNECTION
NO SCALE

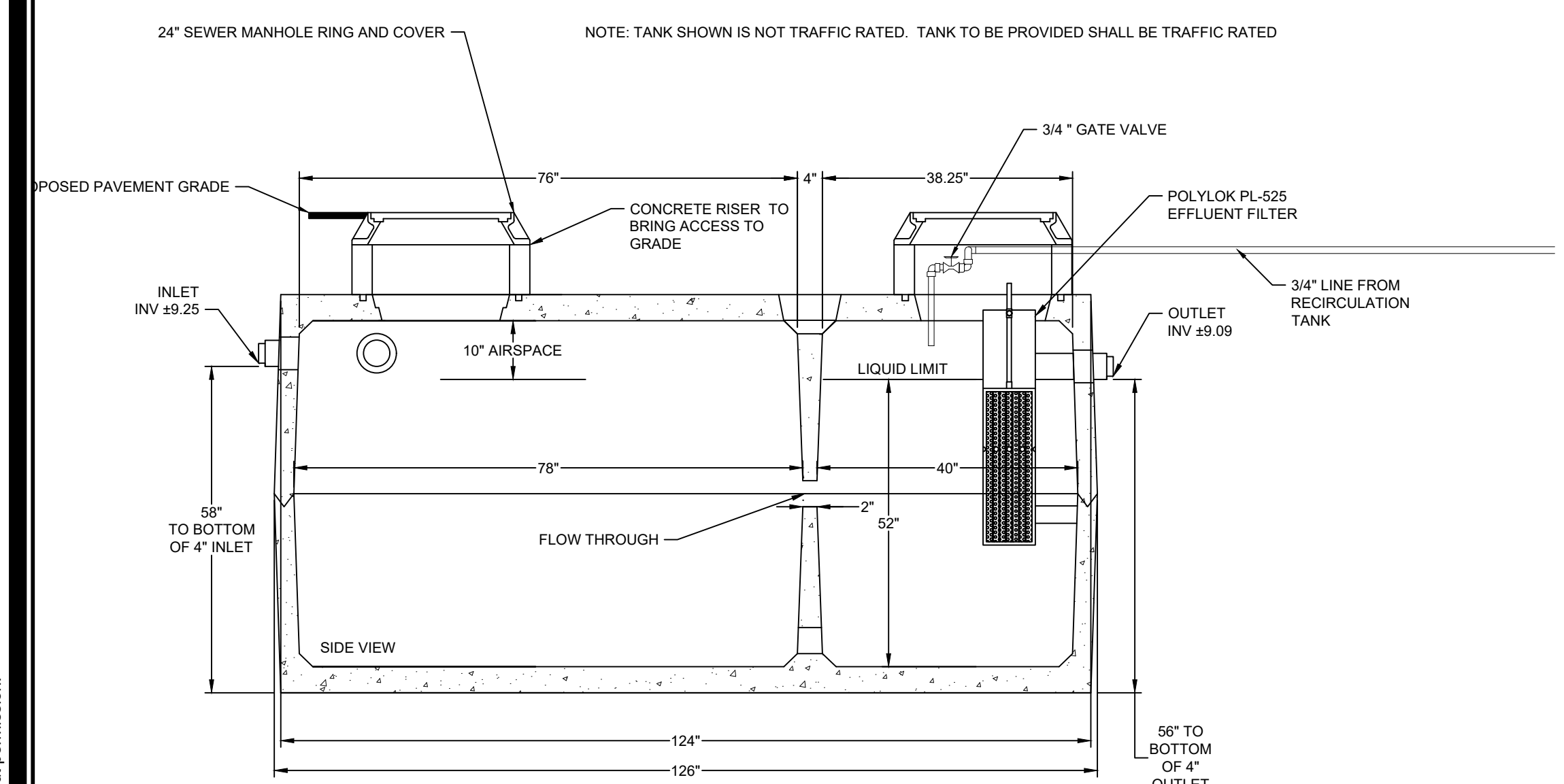


2000 GALLON 2-CHAMBER PUMP TANK
NO SCALE

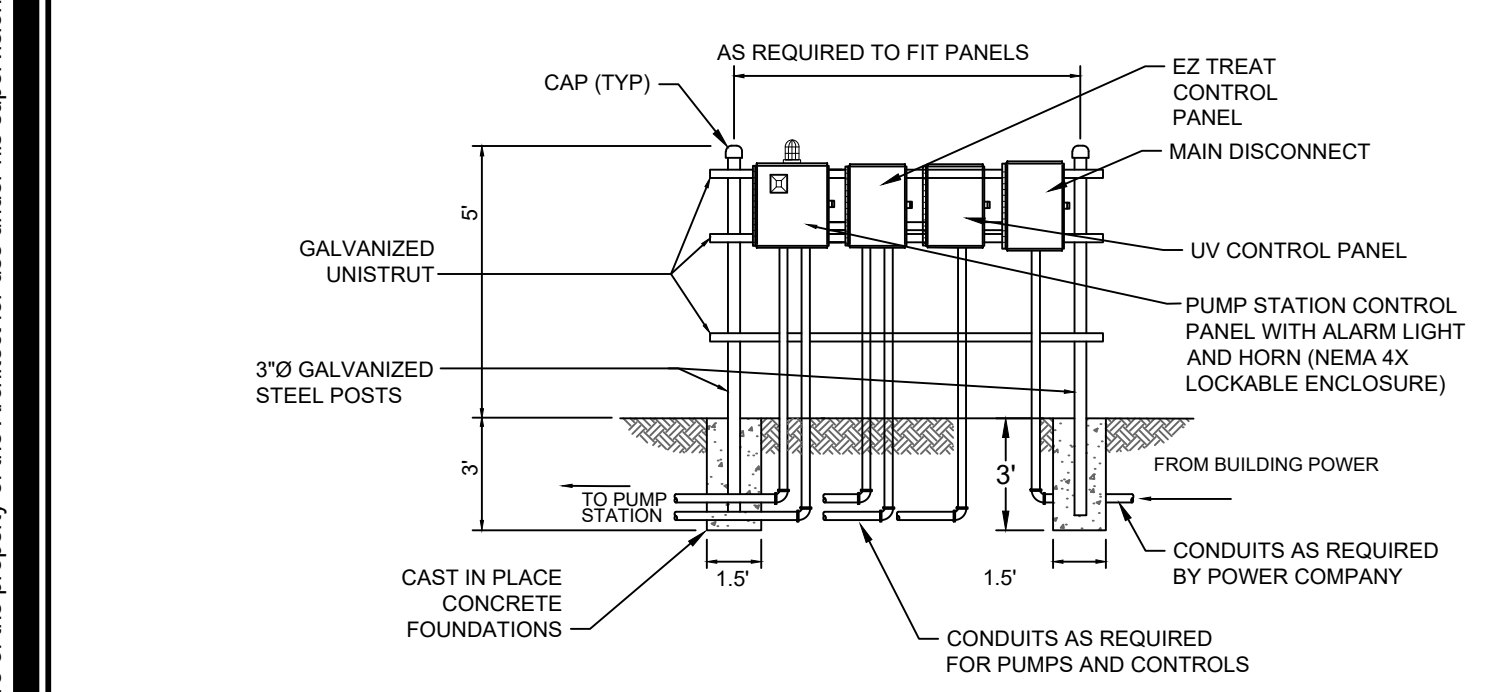


- NOTES:
1. ALL PIPE AND FITTINGS INSIDE PUMP TANK AND WITHIN 5' OF DOSING TANK SHALL BE SCH 80 PVC. ALL VALVES SHALL BE SCH 80 PVC.
2. DOSING VOLUME = 175 GALLONS. FLOAT ELEVATIONS OFF TANK INVERT ARE BASED ON TANK WITH INSIDE DIMENSIONS OF 7'0" X 6'0". FLOAT ELEVATIONS SHALL BE ADJUSTED AS NECESSARY BASED UPON TANK USE.
3. PUMP TANK AS APPROVED BY THE ON-SITE WATER PROTECTION BRANCH, ENVIRONMENTAL HEALTH SECTION OF NCDHHS.
4. TANK SHOWN IS NOT TRAFFIC RATED. IF TANK IS TO BE LOCATED IN TRAFFIC AREA OR TO HAVE COVER DEPTH IN EXCESS OF 36", TRAFFIC RATED TANK SHALL BE USED.

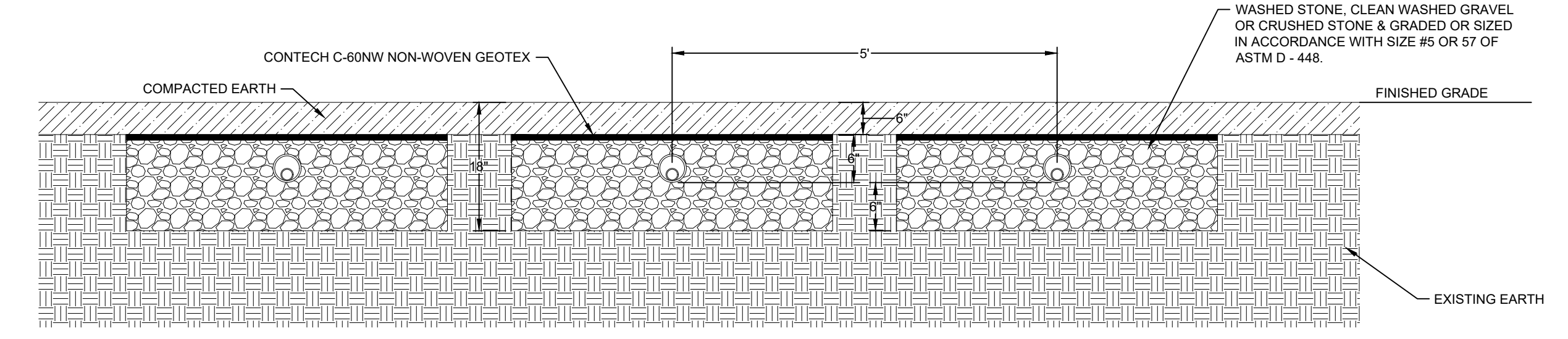
2000 GALLON 2-CHAMBER PUMP TANK
NO SCALE



1500 GALLON SEPTIC TANK
NO SCALE

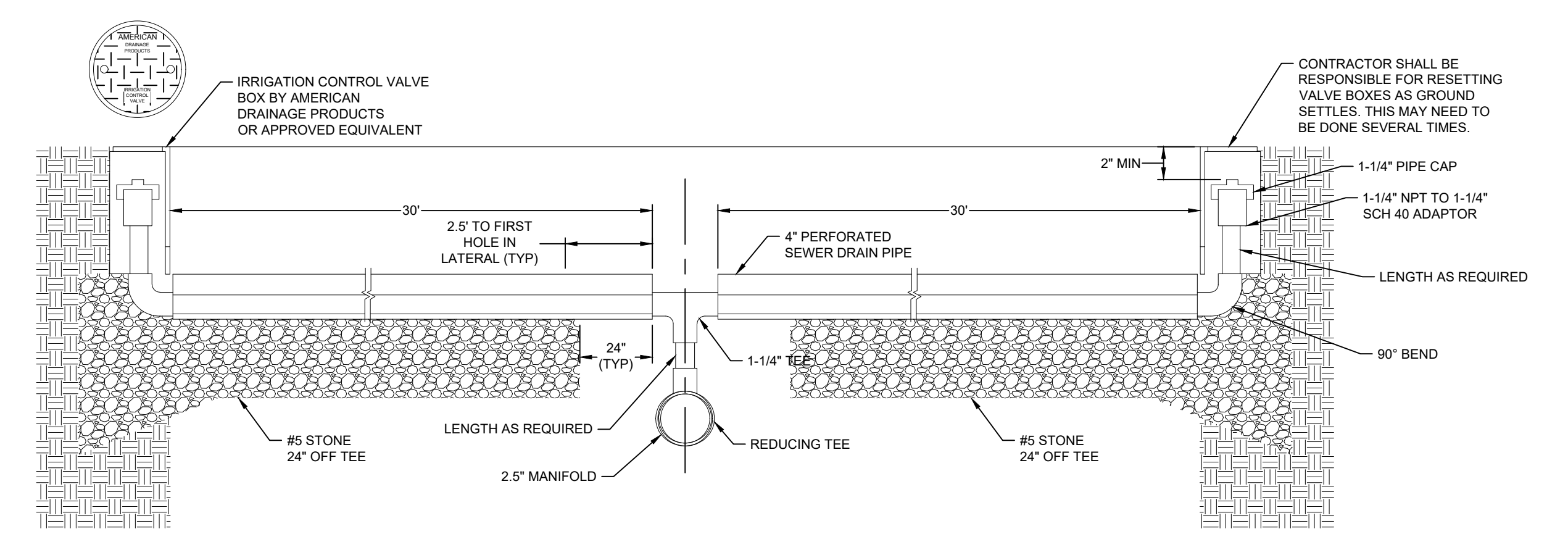


PUMP STATION CONTROL STRUCTURE
NO SCALE



- NOTE:
1. CONTRACTOR SHALL STRIP TOPSOIL FROM FIELD AREA AND STOCKPILE FOR REPLACEMENT.
2. EACH TRENCH SHALL BE BACKFILLED PRIOR TO EXCAVATION OF NEXT TRENCH TO PRESERVE EXISTING SOIL BETWEEN TRENCHES.

LOW PRESSURE FIELD CROSS SECTION
NO SCALE



LATERAL DETAIL
NO SCALE

- NOTES:
1. DRILL 6 HOLES PER 30' LINE AT 5/32" DIAMETER
2. BEGIN 1ST HOLE 2.5' FROM EACH END
3. HOLES TO BE SPACED 5' ON CENTER
4. MAJORITY OF HOLES TO BE ORIENTED UPWARD WITH THE THIRD HOLE FROM EACH END OF EACH LATERAL ORIENTED DOWNWARD TO ALLOW DRAINAGE BETWEEN DOSES

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