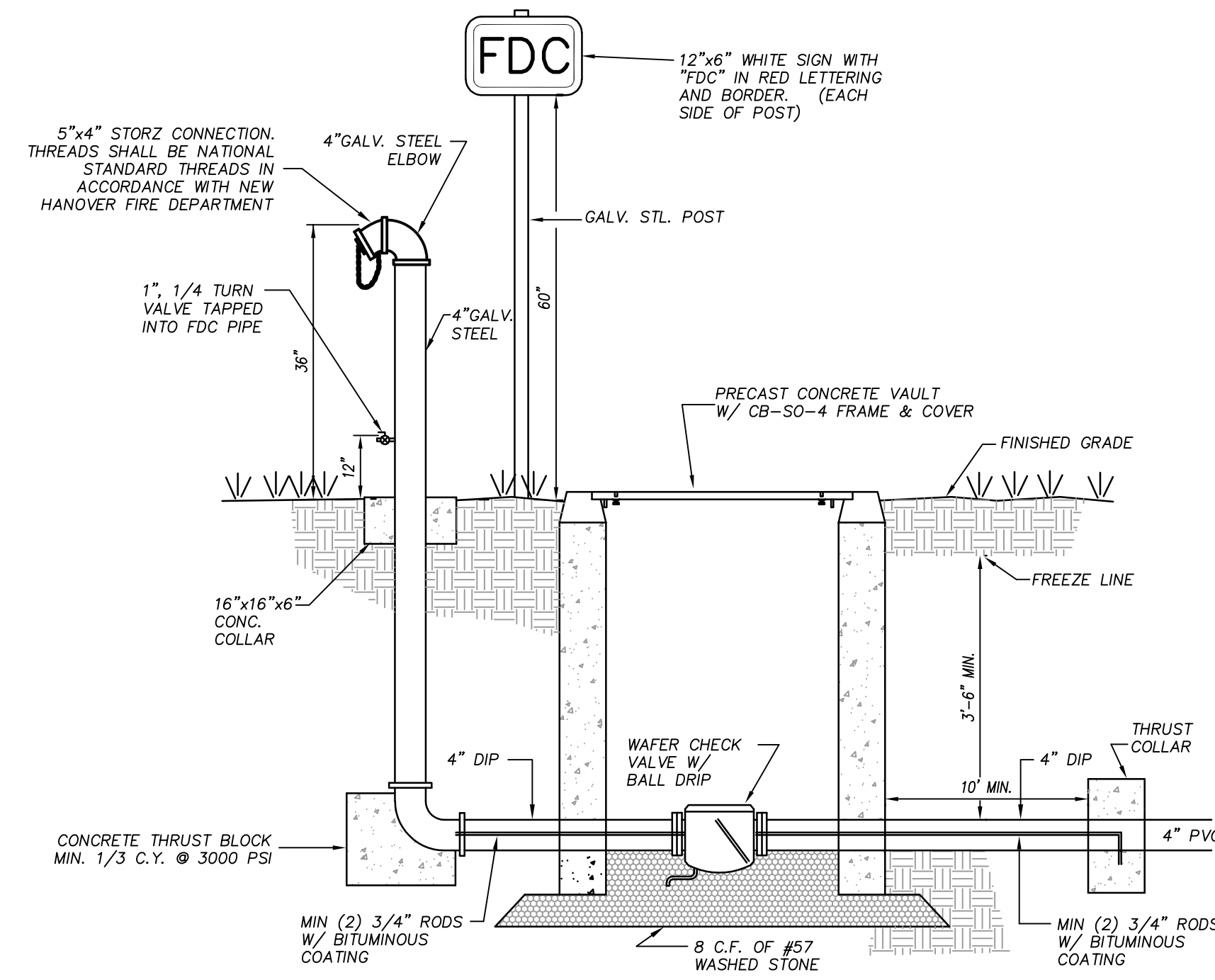


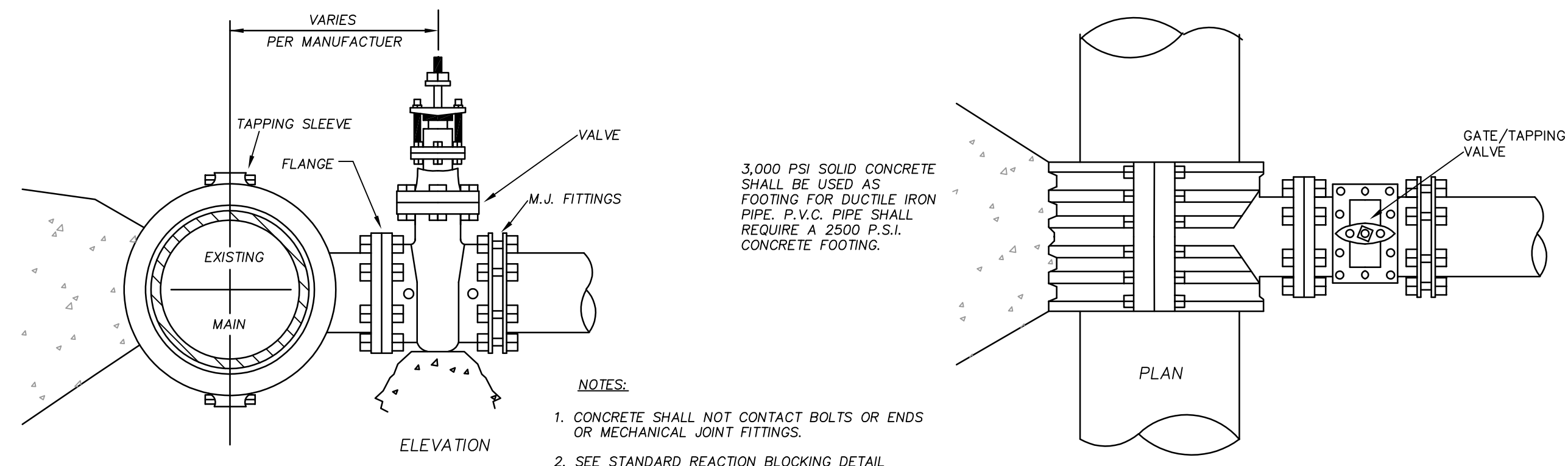
STANDARD FIRE SERVICE INSTALLATION AT BUILDING

N.T.S.



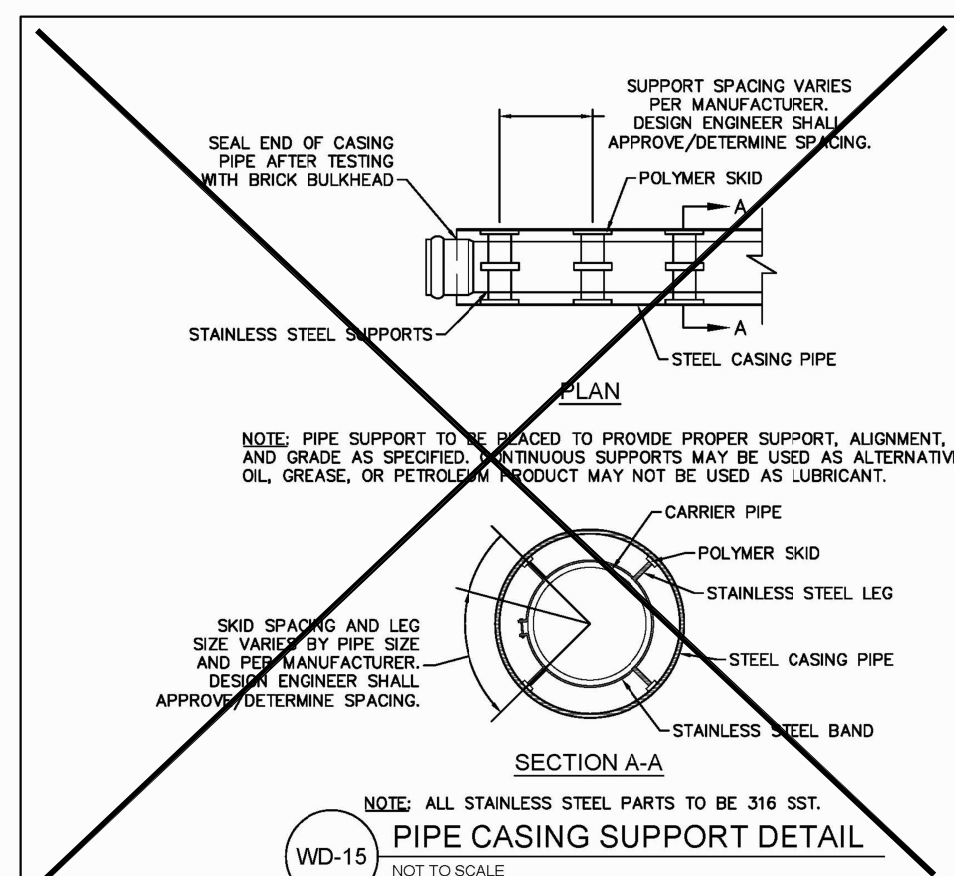
FIRE DEPARTMENT CONNECTION

N.T.S.

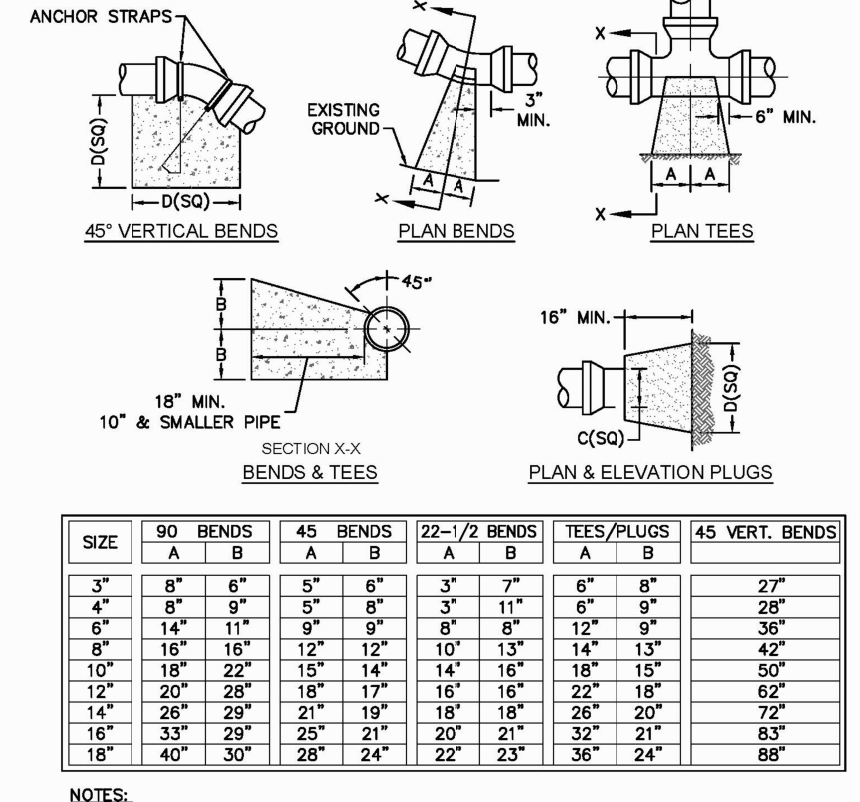


4" - 24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY

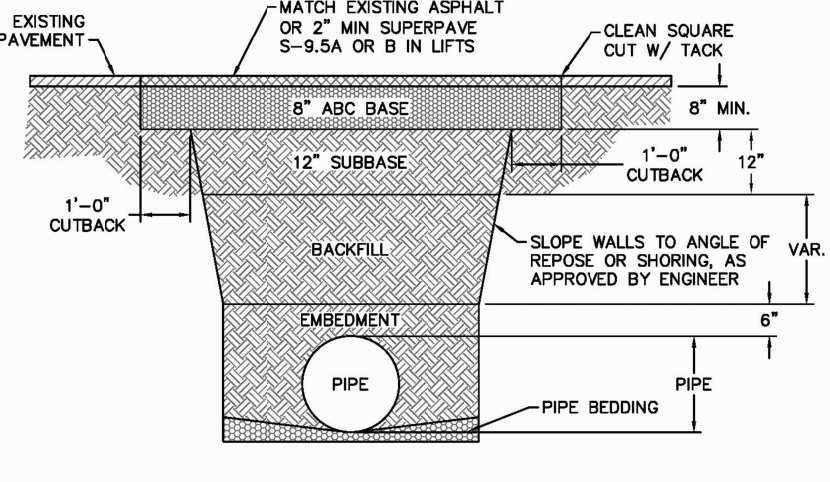
N.T.S.



PIPE CASING SUPPORT DETAIL

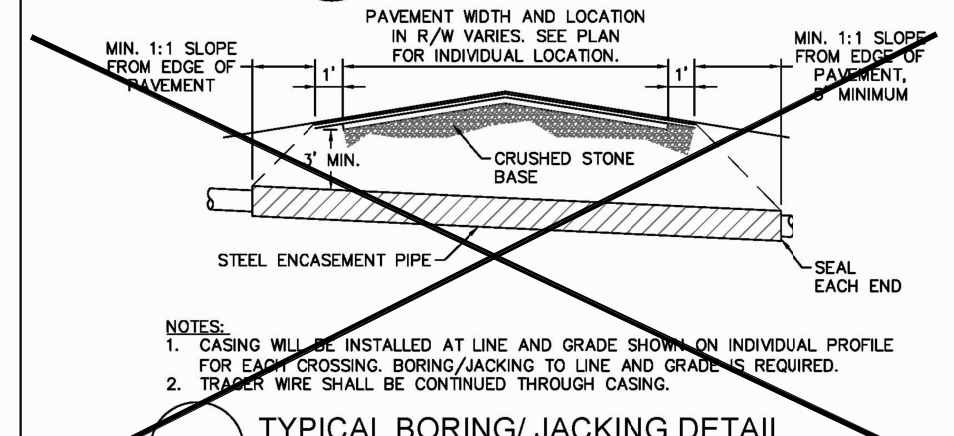


THRUST BLOCK DETAIL

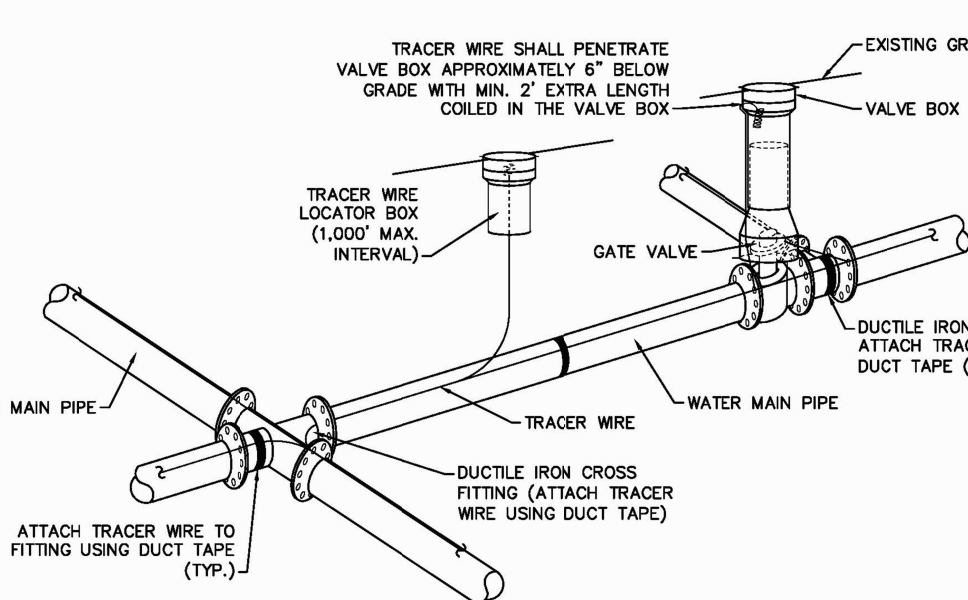


PAVEMENT REPAIR WHERE PIPE INSTALLED

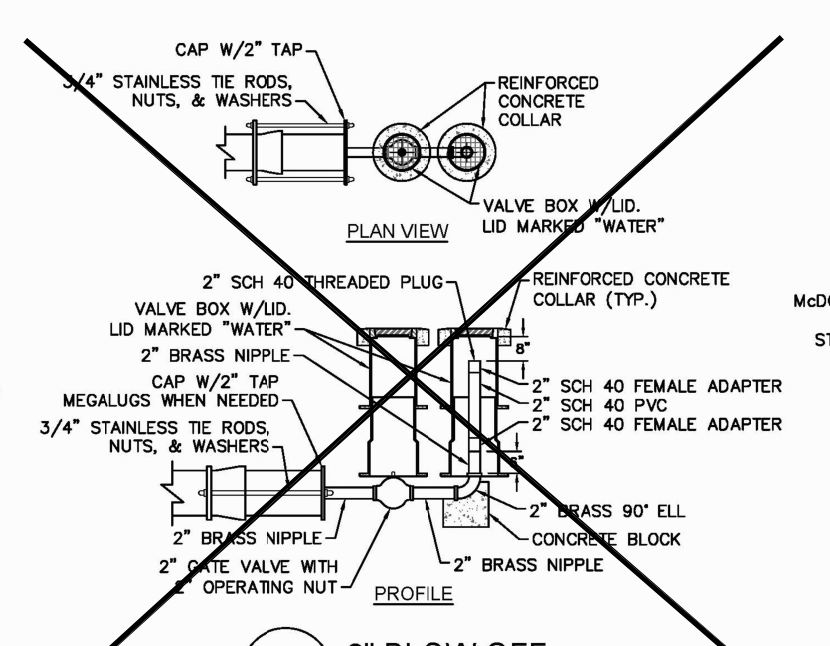
TYPICAL TRENCH DETAIL



TYPICAL BORING/ JACKING DETAIL

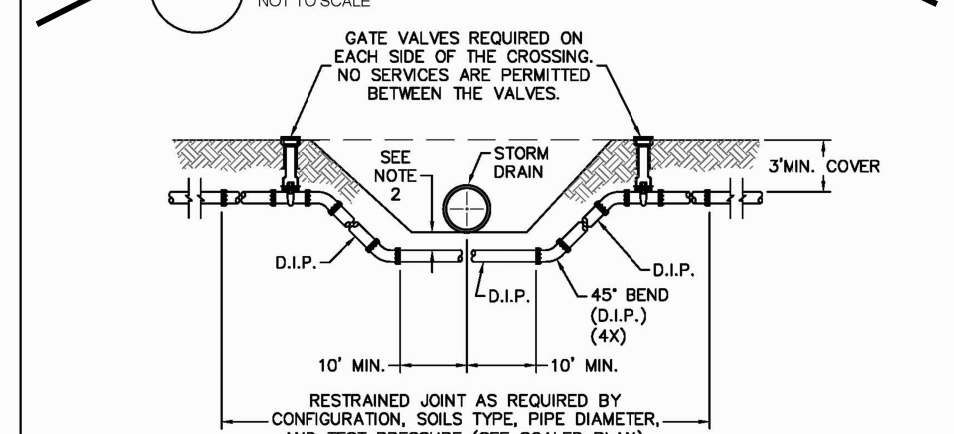


TRACER WIRE DETAIL

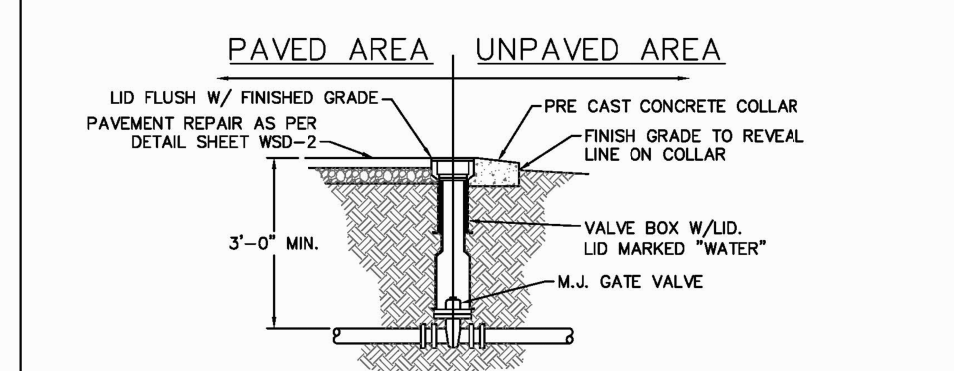


2" BLOW-OFF

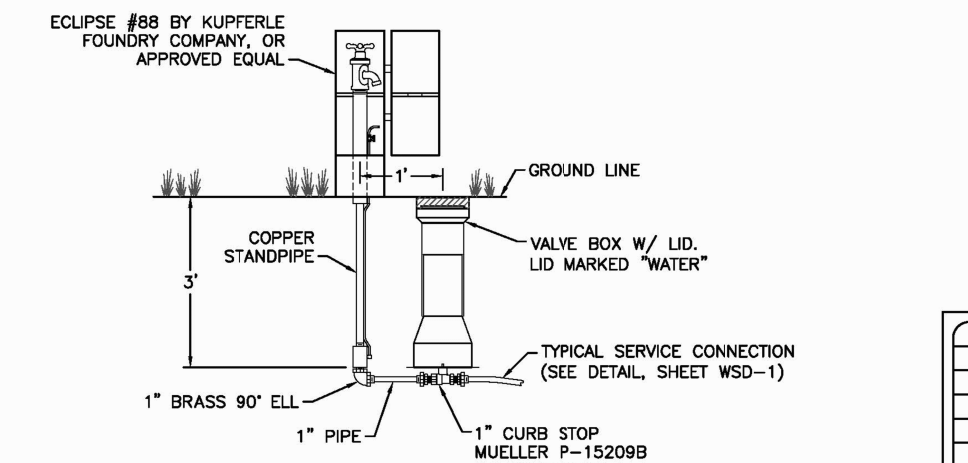
DOUBLE SERVICE CONNECTION



WATER MAIN DITCH AND STORM DRAIN CROSSING



VALVE DETAIL



SAMPLING STATION

CFPUA WATER DISTRIBUTION SYSTEM

REV.	DESCRIPTION	DATE
1	Revised Water Main Ditch and Storm Crossing Detail	11/20/15
2	Revised Water Main Ditch and Storm Crossing Detail	05/05/14
3	Revised Tracer Wire Detail	10/20/15
4	Added Backflow Preventer to Double Service Connection Detail	02/01/16
5	Revised Sampling Station Detail	02/15/16

STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)333-6560

APPROVED CONSTRUCTION PLAN

NAME _____ DATE _____

PLANNING _____

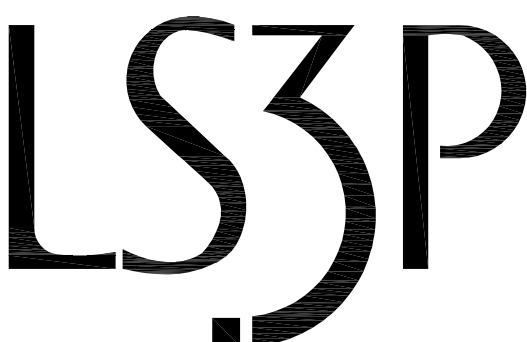
TRAFFIC _____

FIRE _____

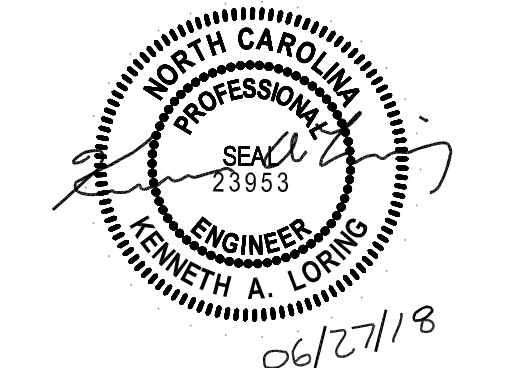


NEW SCHOOL BUILDING

CLH DESIGN, PA
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
Phone: 919.318.6716
Fax: 919.318.7316
LA: C-106 PE: C-1595



227 WEST TRADE STREET SUITE 700
CHARLOTTE, NORTH CAROLINA 28202
TEL. 704.333.6686 FAX 704.333.2926
WWW.LS3P.COM



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REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/(CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

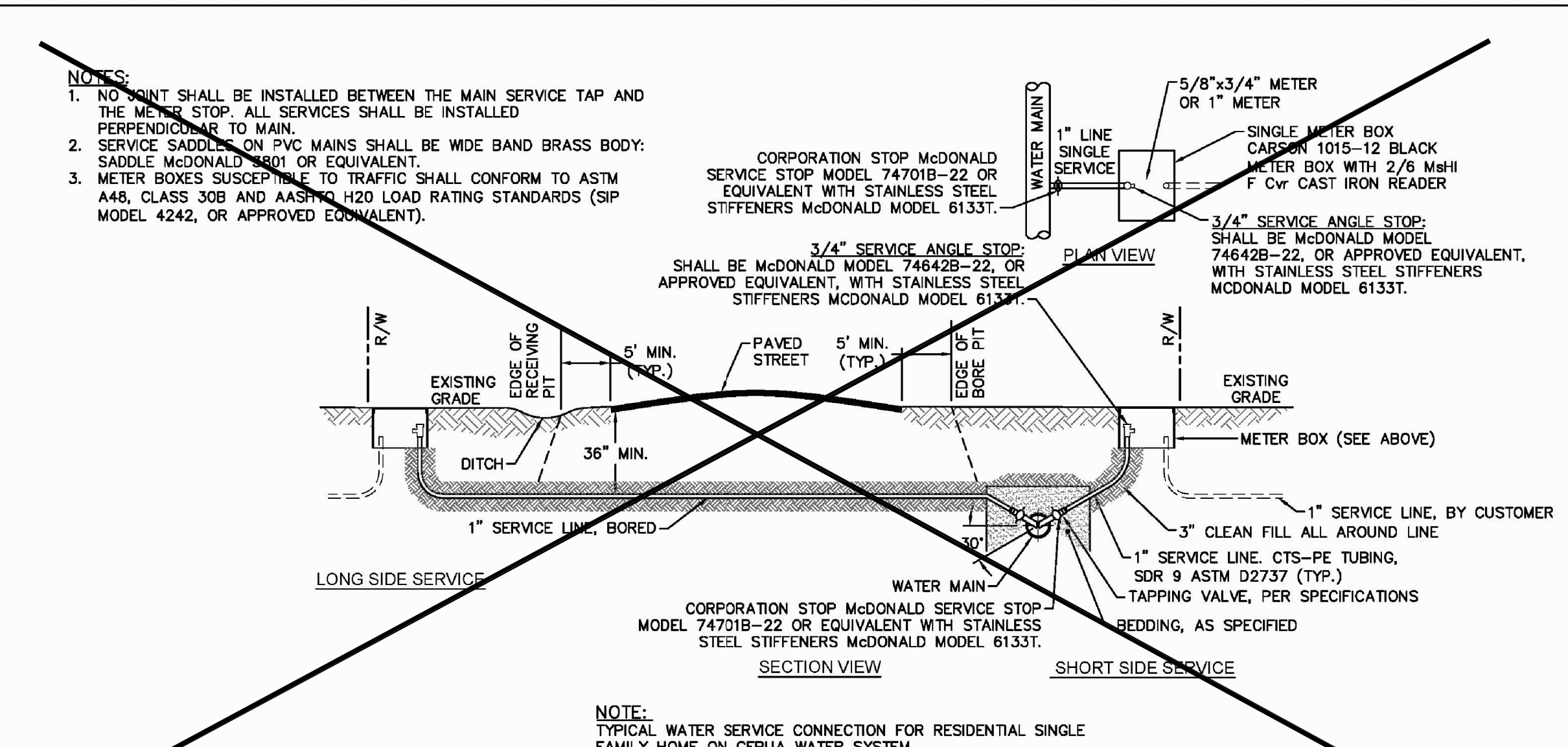
SITE/CIVIL DETAILS

C-706

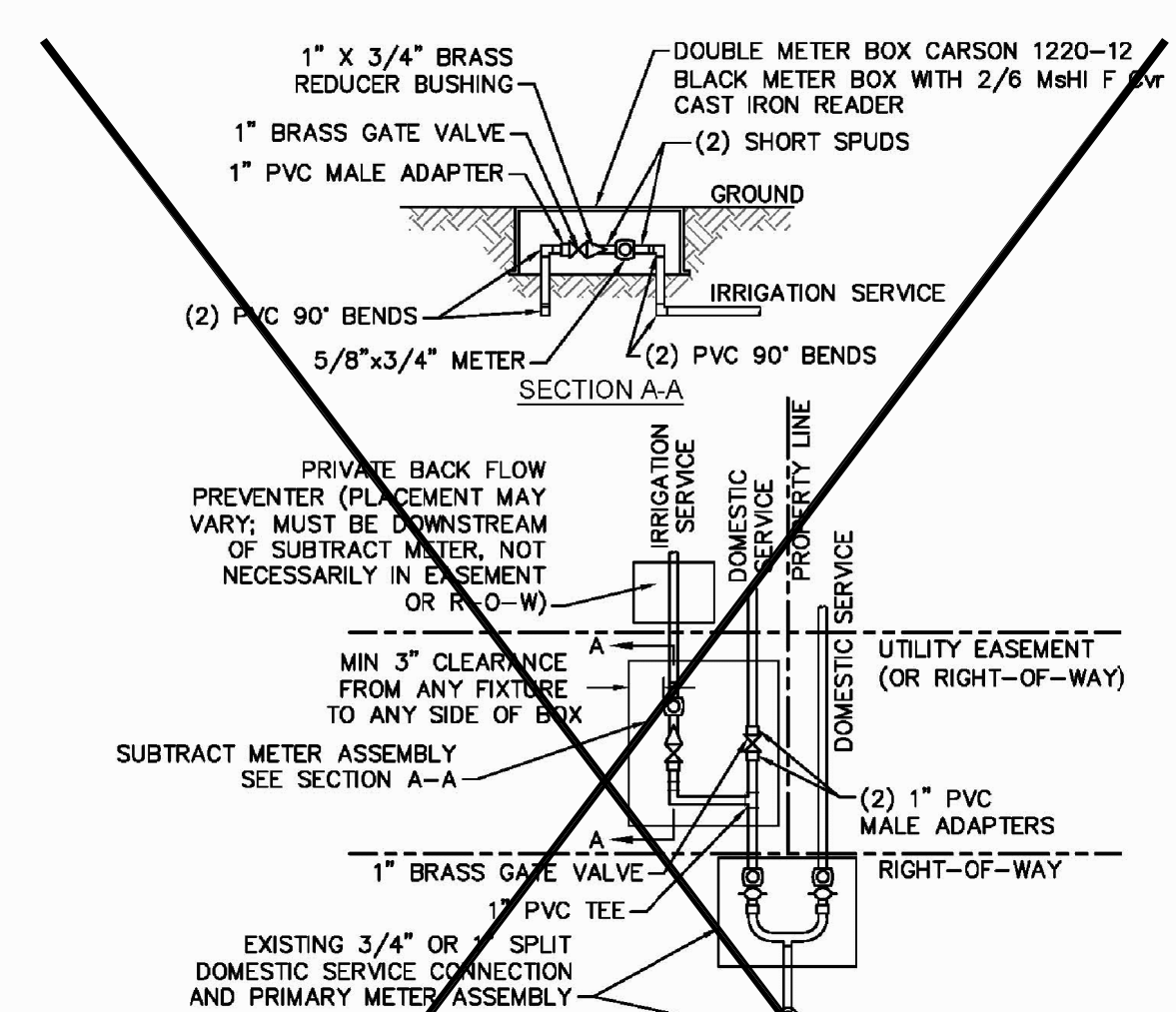
PERMIT SET

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

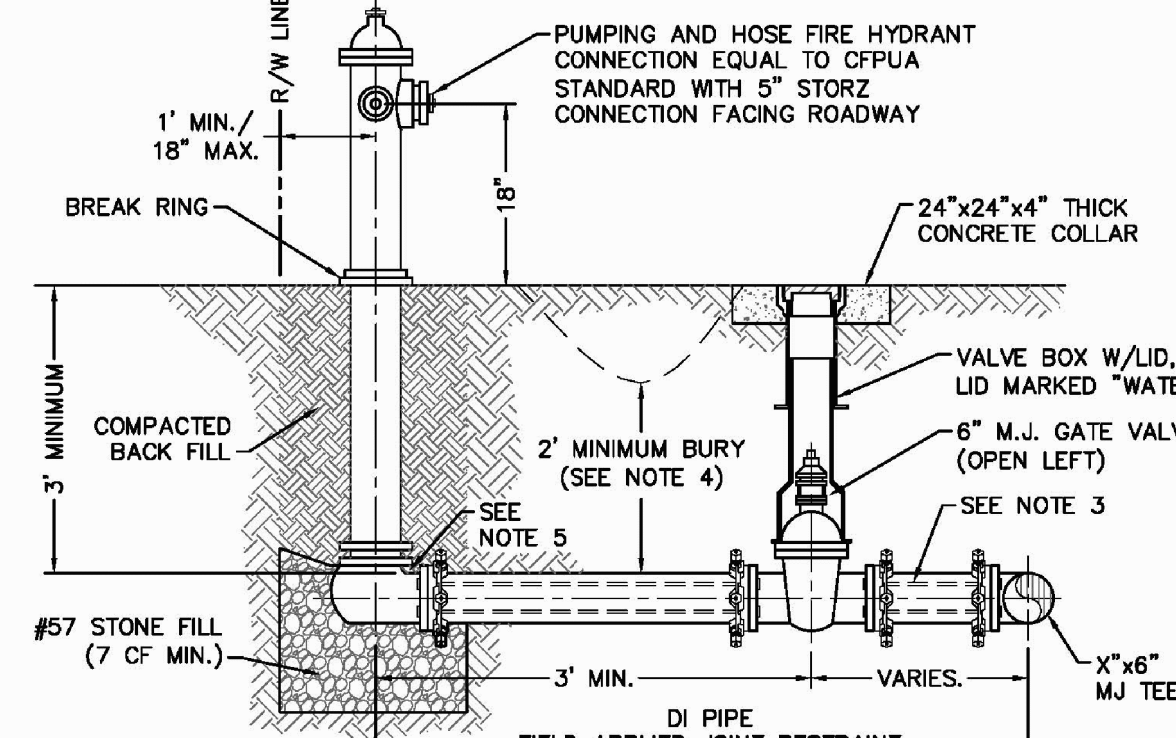
PROJECT: 7201-169350 / (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP



WD-18 SINGLE SERVICE CONNECTION
NOT TO SCALE



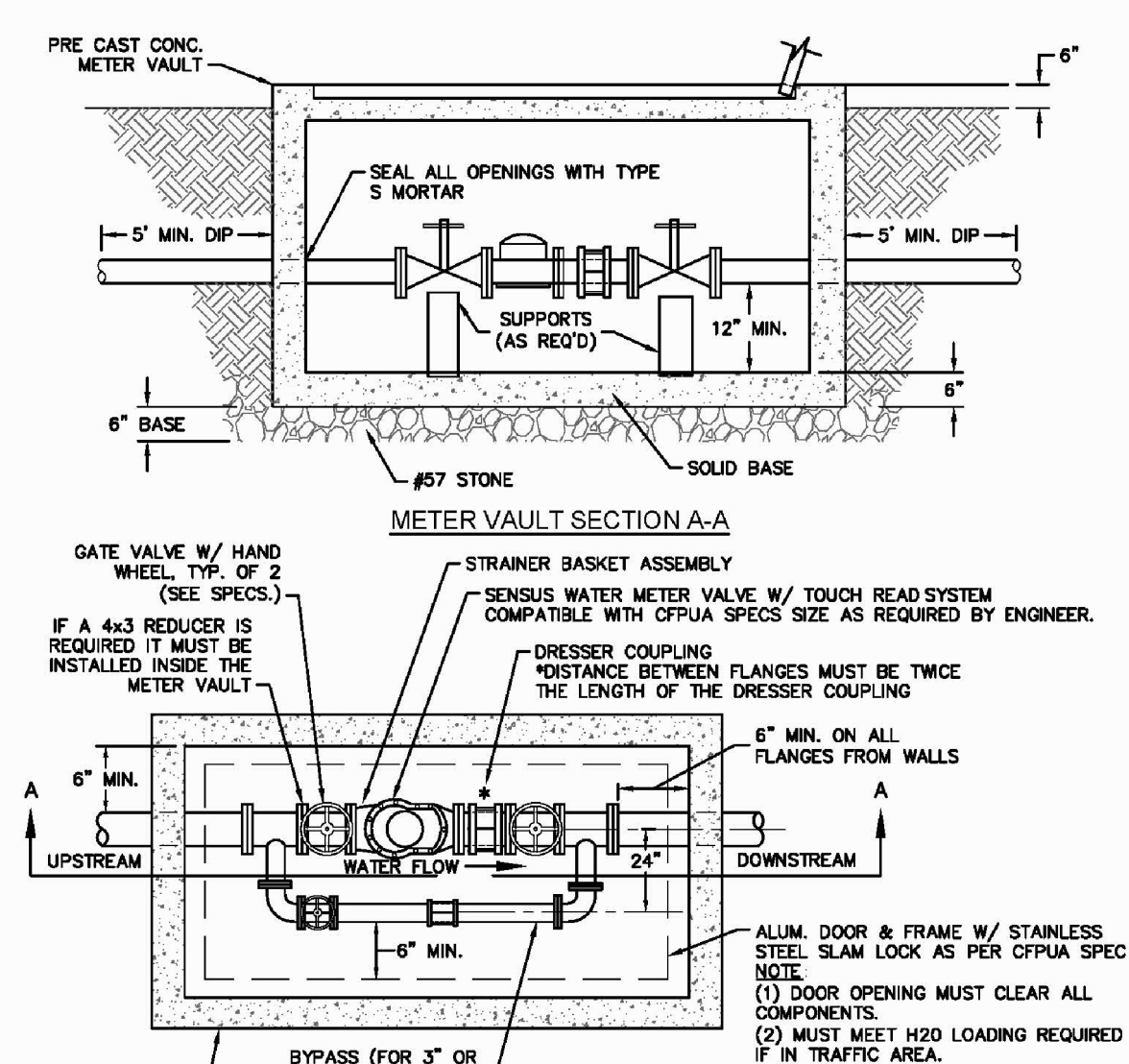
WD-8 DOUBLE SERVICE CONNECTION USING SUBTRACT METER
NOT TO SCALE



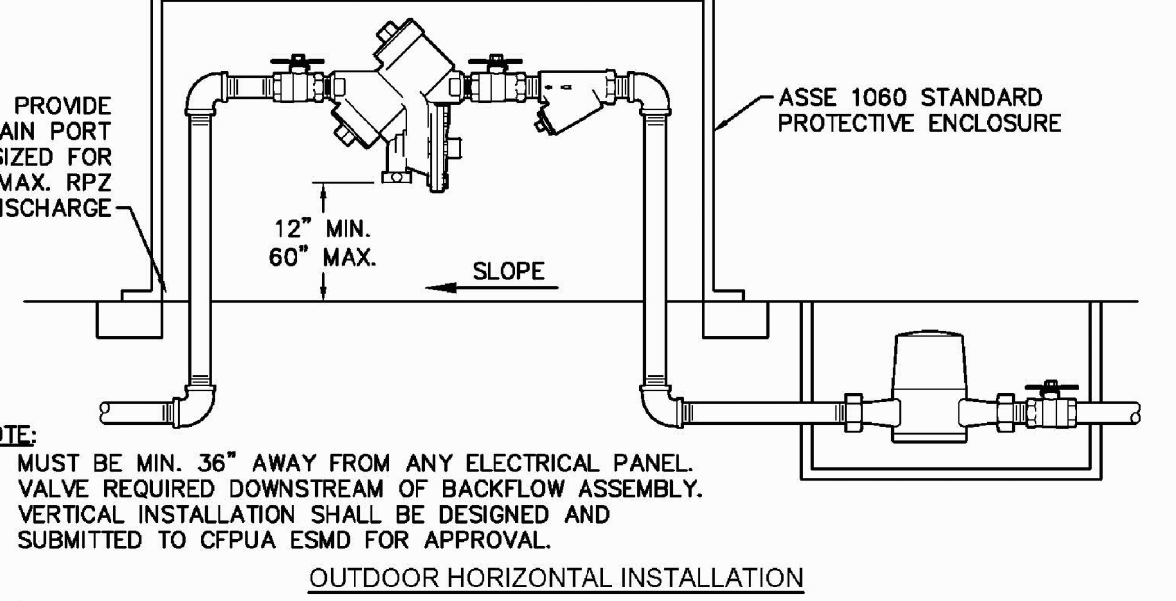
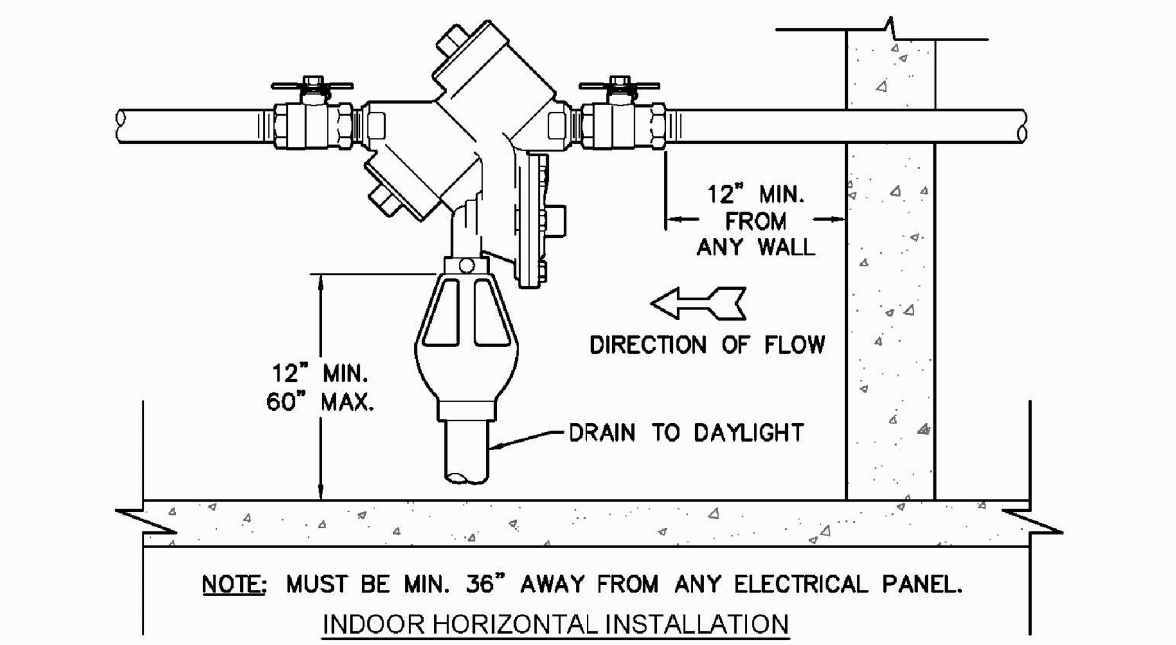
WD-10 FIRE HYDRANT ASSEMBLY
NOT TO SCALE

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:
1. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
2. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
3. ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP WITH PROTECTO 401 CERAMIC EPOXY LINING.
4. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
5. NO FLEXIBLE COUPLINGS SHALL BE USED.
6. ALL STAINLESS STEEL FASTENERS SHALL BE 316.
7. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

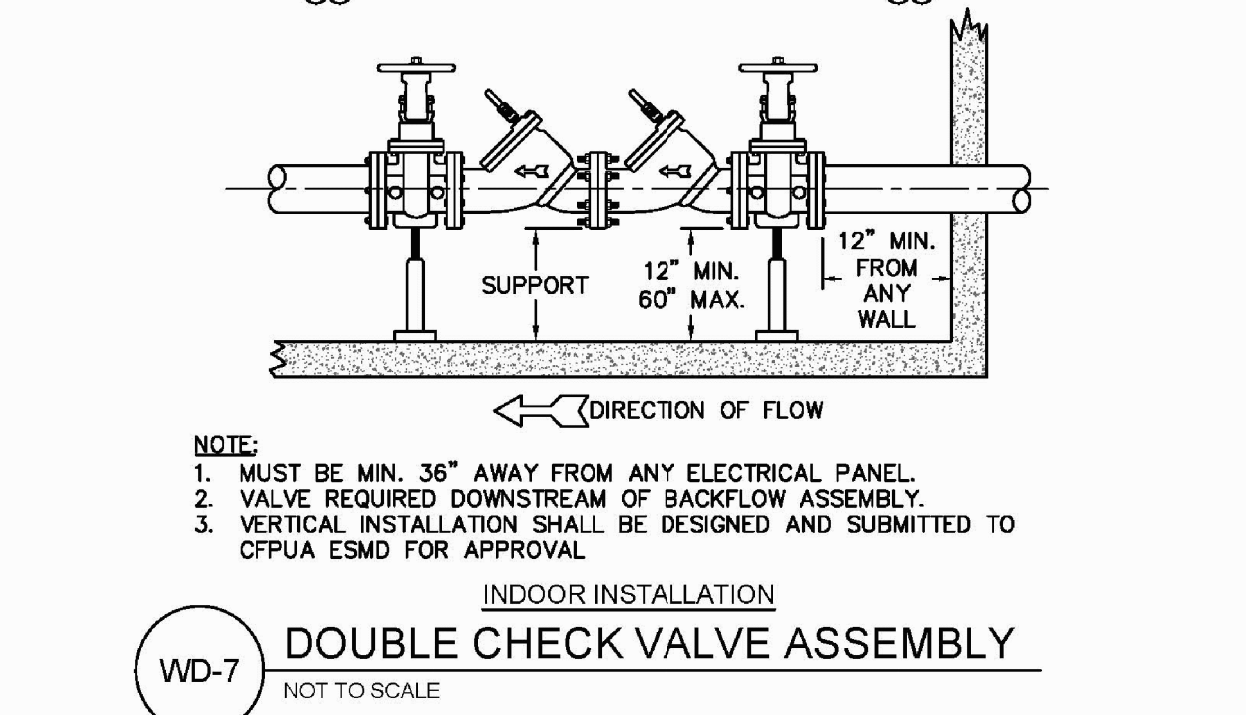
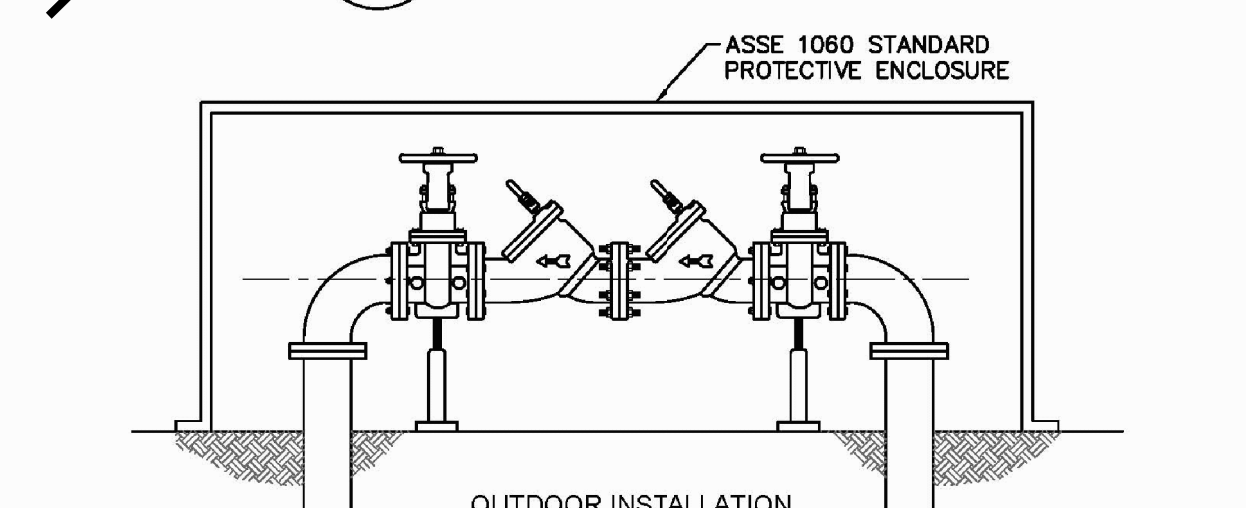
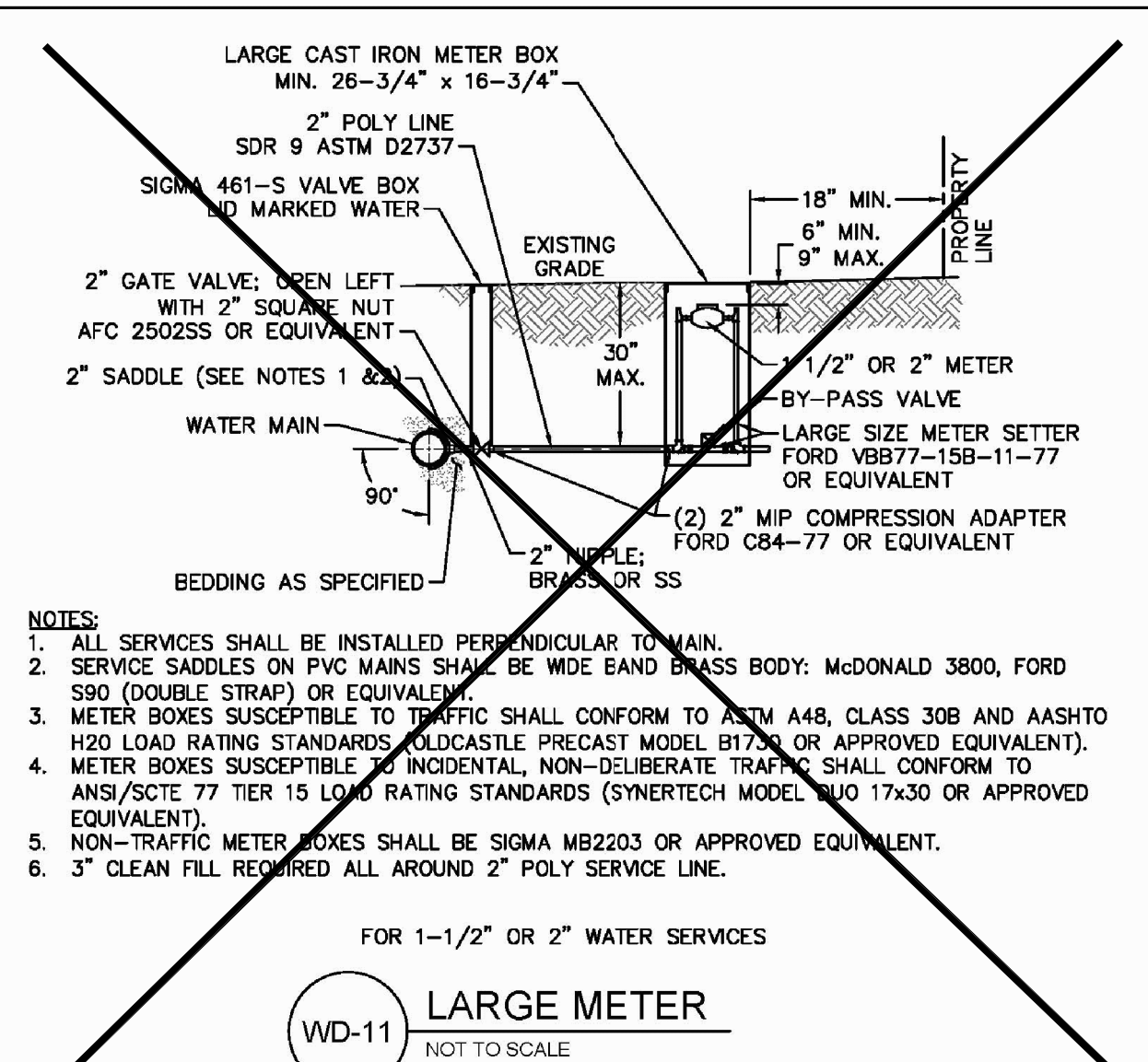
WD-19 STANDARD NOTES
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)



WD-1 WATER METER VAULT
NOT TO SCALE



WD-12 REDUCED PRESSURE PRINCIPLE ASSEMBLY
NOT TO SCALE



WD-7 DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE

GENERAL NOTES:
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN

NAME: _____ DATE: _____

PLANNING: _____

TRAFFIC: _____

FIRE: _____

Date: _____ Permit # _____

Signed: _____

CFPWA WATER DISTRIBUTION SYSTEM

DATE: 1/8/12
SCALE: N/A
DRAWN BY: CFPWA
CHECKED BY: CFPWA
PROJECT NO.:

STANDARD DETAILS

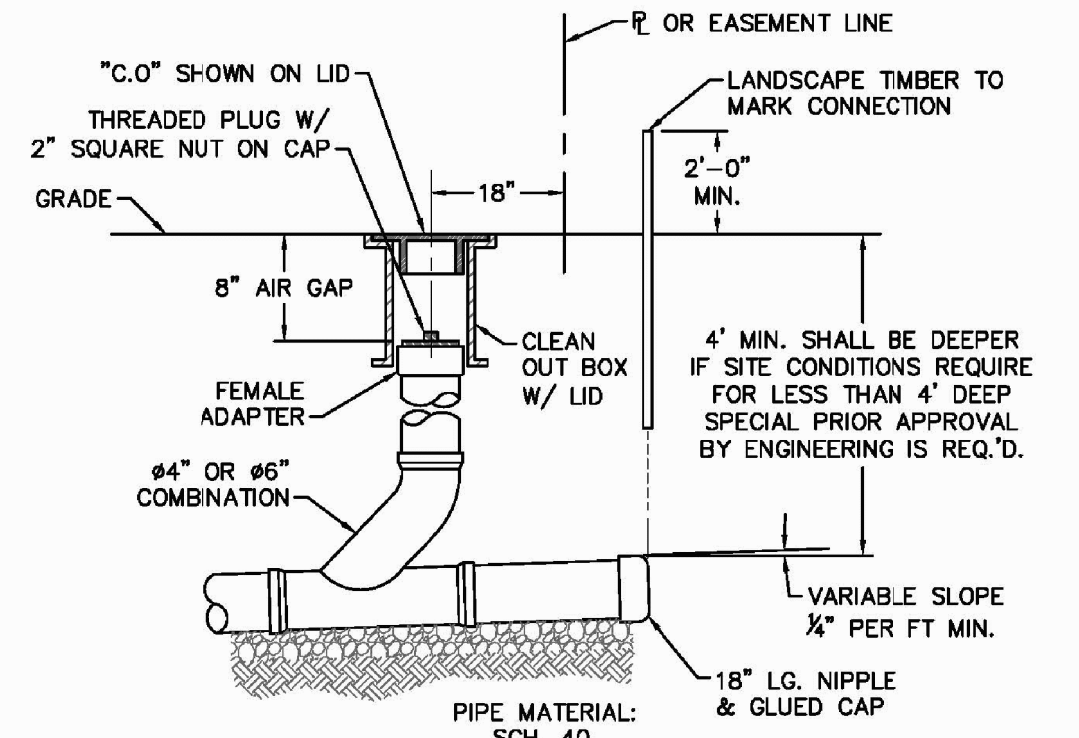
CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

SHEET NO: WSD-1

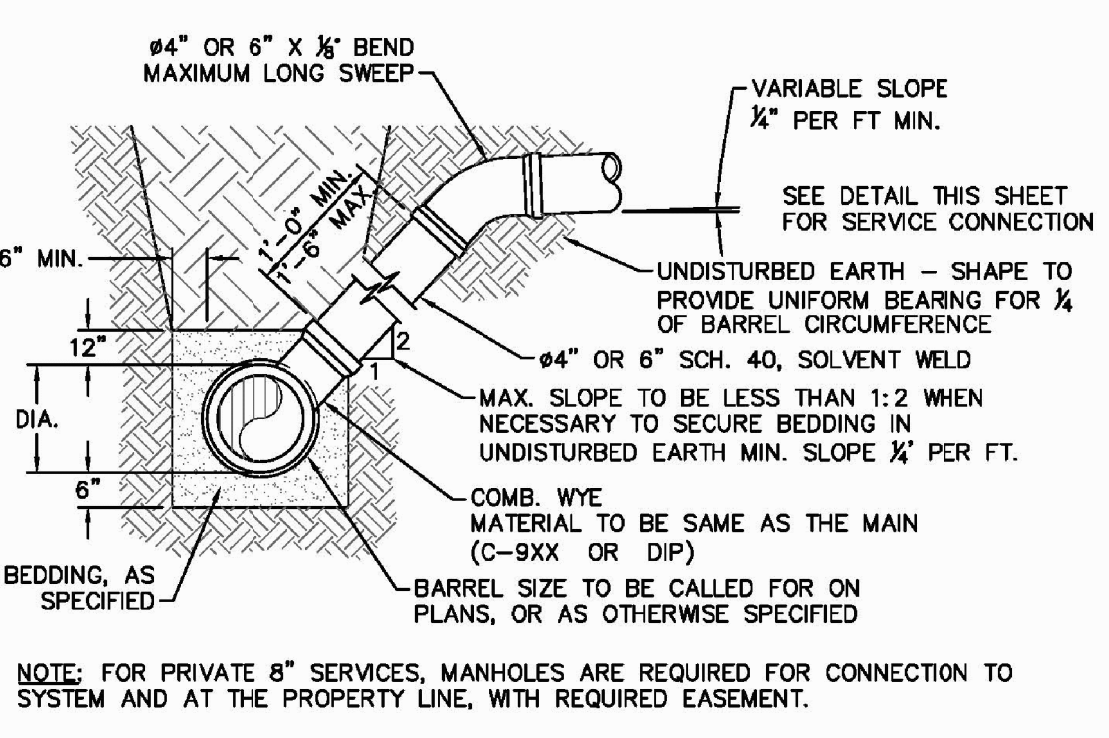
REV.	DESCRIPTION:	DATE:
1	Single Service Connection, Double Service Connection, and Large Meter Revised	10/28/12
2	Single Service Connection and Fire Hydrant Details Revised	7/23/13
3	Fire Hydrant Detail Revised	01/03/14
4	Revised Fire Hydrant Assembly To Show 5" STORZ Connection	04/10/15
5	Revised Fire Hydrant Assembly To Show Full D/P Hydrant Leg	01/19/16
6	Revised Water Meter Vault and Large Meter Details, Added Standard Notes	02/15/16

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

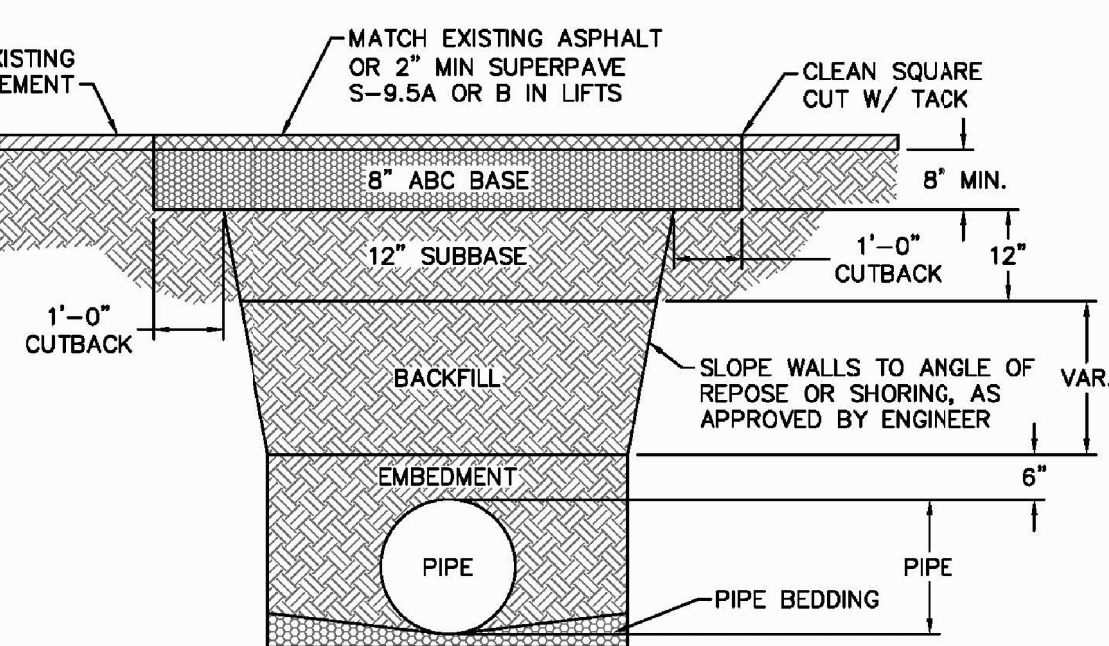
PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP



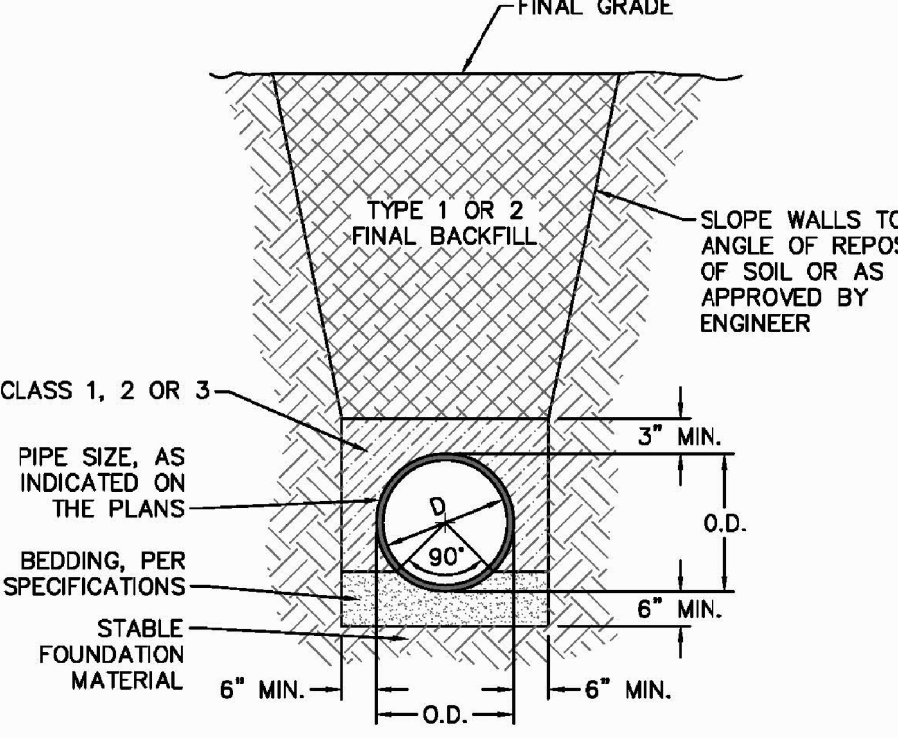
SD-11 SERVICE CONNECTION AND CLEAN-OUT
NOT TO SCALE



SD-10 STANDARD SERVICE LATERAL
NOT TO SCALE



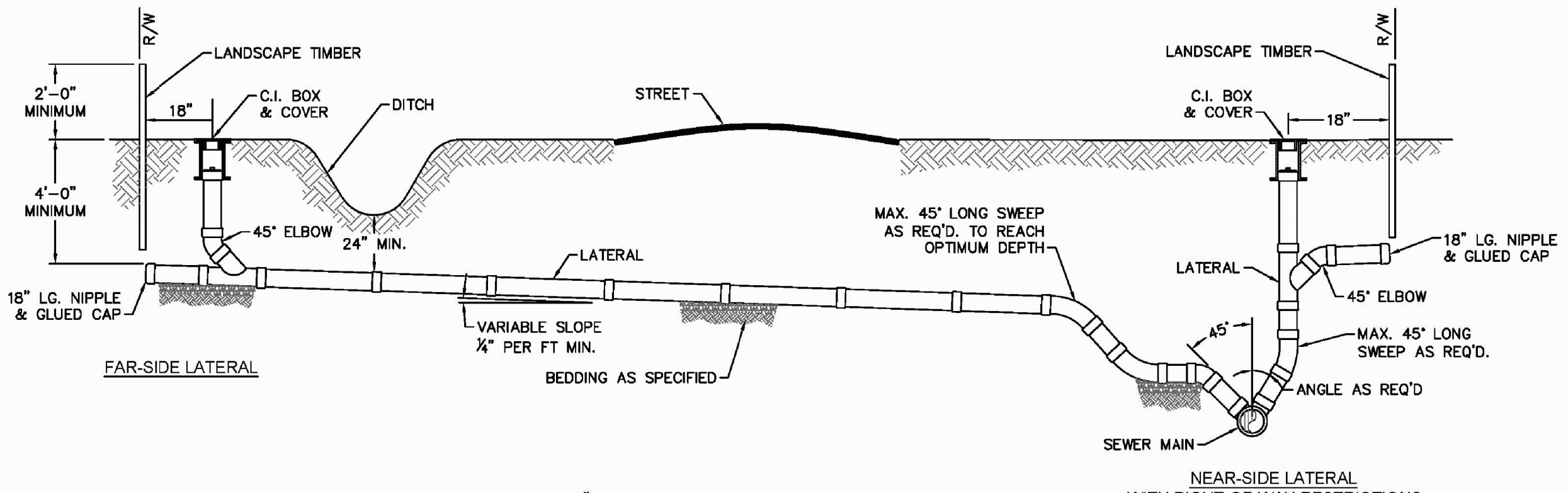
SD-14 PAVEMENT REPAIR WHERE PIPE INSTALLED
NOT TO SCALE



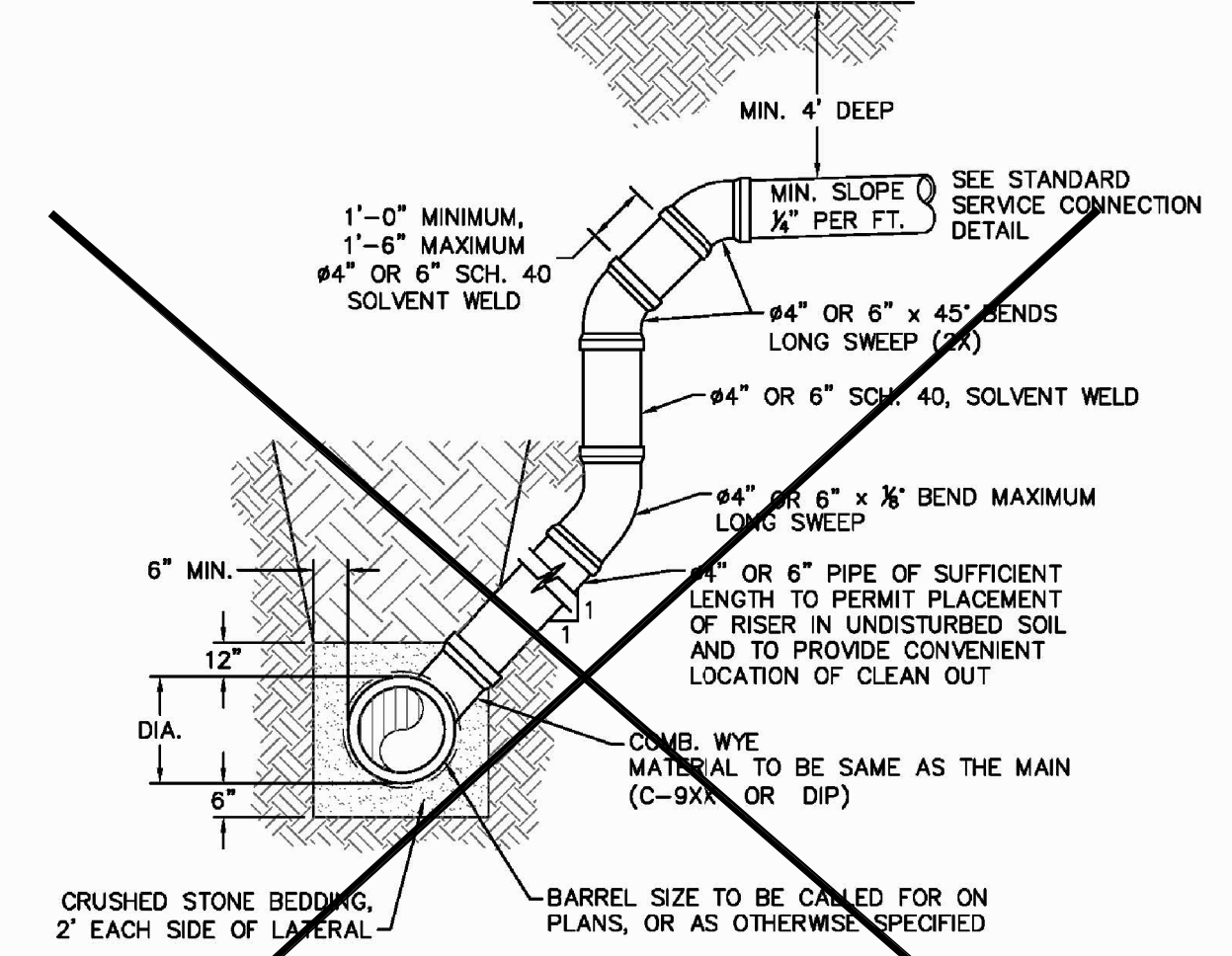
SD-15 TYPICAL TRENCH DETAIL
NOT TO SCALE

- GENERAL NOTES:
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 - THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 - THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 - THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

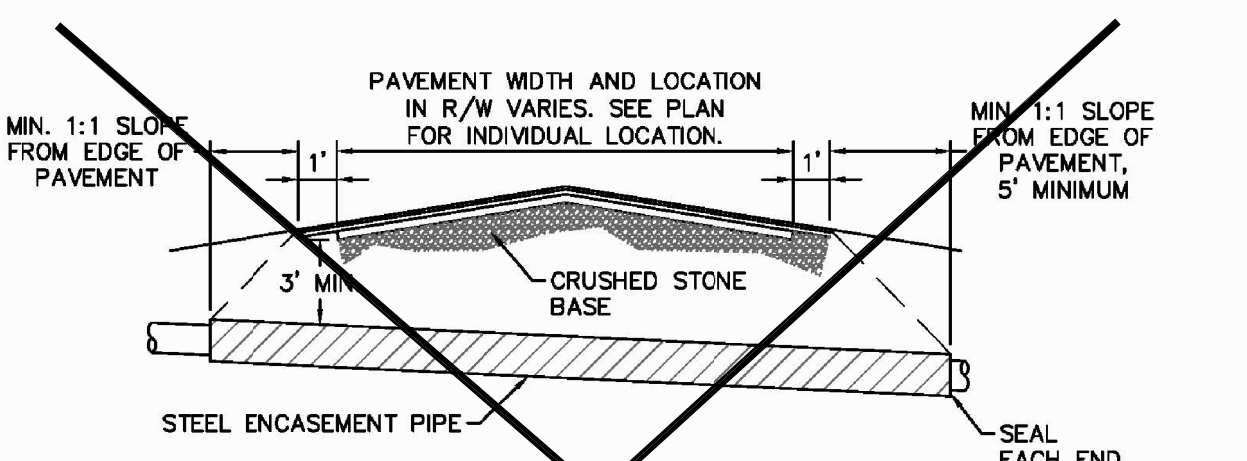
THE DETAILS SHOWN HEREON SUPERCEDE CFPUA
WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04



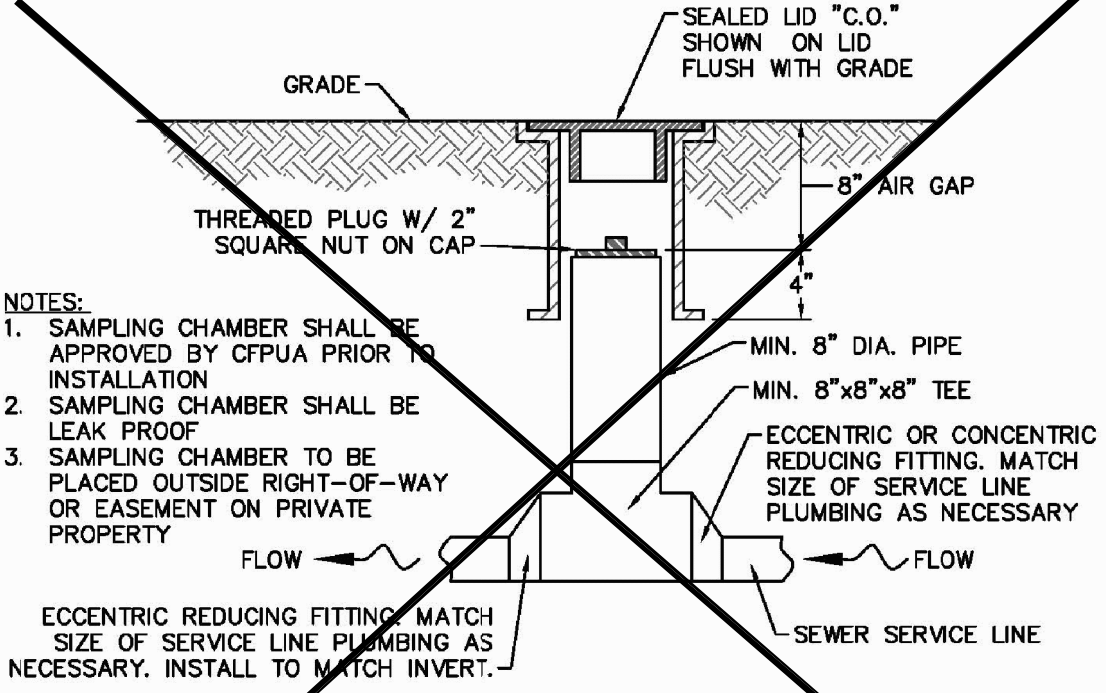
SD-19 STANDARD SERVICE CONNECTION TO SANITARY SEWER
NOT TO SCALE



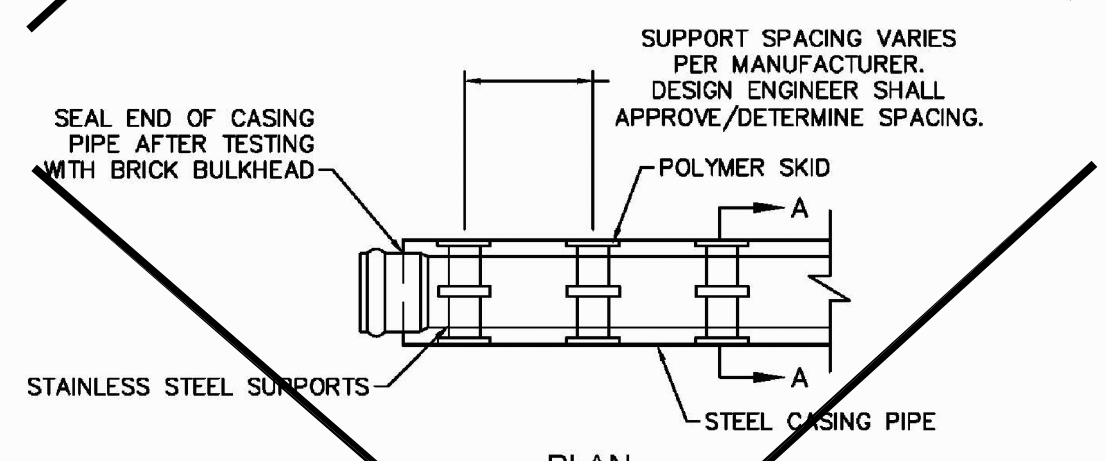
SD-12 DEEP SERVICE LATERAL
NOT TO SCALE



SD-16 TYPICAL BORING/JACKING DETAIL
NOT TO SCALE



SD-13 SAMPLING CHAMBER
NOT TO SCALE



SD-17 PIPE CASING SUPPORT DETAIL
NOT TO SCALE

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

REV.	DESCRIPTION	DATE
1	SAMPLING CHAMBER REVISED	10/23/12
2	Revised Multiple Details	02/13/16

CFPUA SANITARY SEWER

STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

SHEET NO:
SSD-2

City of WILMINGTON, NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: Permit #
Signed:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

PILE AND BENT DETAIL
SD-20 NOT TO SCALE

PILE AND BENT SECTION A-A
NOT TO SCALE

PILE AND BENT SECTION B-B
NOT TO SCALE

PILE AND BENT SECTION A-A INSET
NOT TO SCALE

TRACER WIRE DETAIL
SD-21 NOT TO SCALE

NOTES:

- TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.
- WIRE SHALL BE STRAPPED TO ALL PVC FORCE MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.
- SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.
- ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.

STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12" SEPARATION
SD-24 NOT TO SCALE

GENERAL NOTES:

- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
- THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

FORCE MAIN DITCH AND STORM DRAIN CROSSING
SD-18 NOT TO SCALE

NOTES:

- TRACER WIRE SHALL PENETRATE VALVE BOX APPROXIMATELY 6" BELOW GRADE WITH MIN. 2' EXTRA LENGTH COILED IN THE VALVE BOX.
- TRACER WIRE LOCATOR BOX (1,000' MAX. INTERVAL).
- TRACER WIRE SHALL BE STRAPPED TO ALL PVC FORCE MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.
- SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.
- ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.

CFPUA SANITARY SEWER


STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

REVISIONS:

REV.	DESCRIPTION:	DATE:
1	ADDED NOTES TO THE STRUCTURAL BRIDGING DETAIL	03/11/15
2	Revised Tracer Wire Detail	10/20/15
3	Revised Force Main Ditch and Storm Drain Crossing Detail	02/15/16

- No plantings over thirty (30) inches in height allowed in vision clearance.
- Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
- Owner is responsible for maintenance to ensure plant material lives and prospers.
- Planting plans shall be approved by Landscape Designer prior to installation.
- Landscaping shall be required at the ends of all parking rows.
- A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
- Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
- A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
- For recommended Plant List see "Landscape" T-10.4.

DATE: APRIL, 2008	STANDARD DETAIL	 <p>CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: JSR	LANDSCAPE NOTES	
CHECKED BY: B.P., P.E.		
SCALE: NOT TO SCALE		
	SD 15-14	

CITY OF WILMINGTON LANDSCAPE NOTES N.T.S.

DATE	TYPE	PLANTING RATE
APR 15 - JULY 15 **	HULLED SUNSTAR OR RIVERA BERMUDA	85 LBS/ACRE *
JULY 15 - AUG 15	SUNSTAR OR RIVERA BERMUDA SPRINGS	5 BUSHELS/1,000 SF
AUG 15 - APR 15	TEMPORARY SEEDING APPLIES**	

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

- LAWN MAINTENANCE NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
 - LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
 - IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.

SUBSTANTIAL COMPLETION (GRASS):

CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE AND WATERING UNTIL SUBSTANTIAL COMPLETION. LAWN/TURF SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE WHEN GRASS ESTABLISHMENT IS AT A MIN. 95% COVERAGE AND THE SURFACE COMPLES WITH THE SLOPE, SMOOTHNESS AND OTHER SPECIFIED TOLERANCES. IF THE MINIMUM REQUIREMENTS ARE NOT MET, SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE MINIMUM REQUIREMENTS ARE MET (POSSIBLY INTO THE FOLLOWING GROWING SEASON). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR WATERING AND MAINTENANCE OF THE GRASS UNTIL SUBSTANTIAL COMPLETION IS REACHED. SEE SPECIFICATIONS FOR FURTHER INFORMATION.

PERMANENT SEEDING SCHEDULE- BERMUDA SEED

PERMANENT OR TEMPORARY GROUND COVER SHALL BE PROVIDED OVER ALL DISTURBED AREAS OF THE SITE AS SOON AS POSSIBLE, HOWEVER, NO LATER 30 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED DURING ANY PHASE OF WORK.

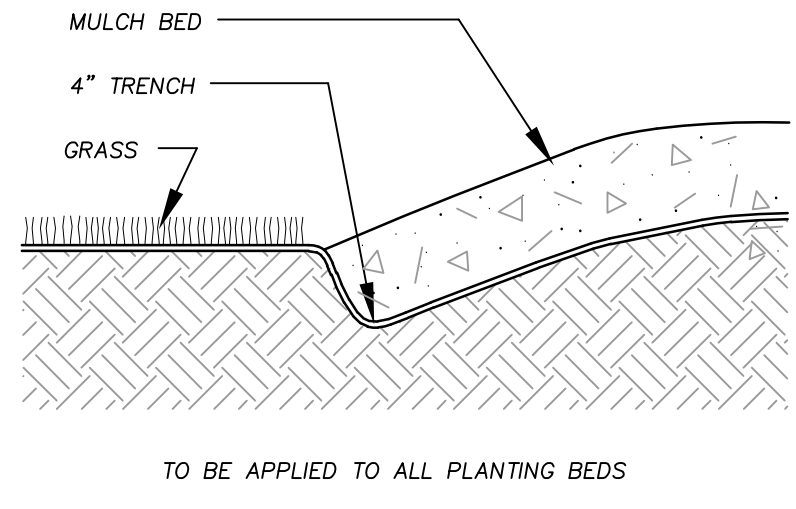
TEMPORARY OR PERMANENT GROUND COVER SHALL BE PROVIDED ON ALL SLOPES WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITIES PERMANENTLY OR TEMPORARILY CEASED.

DATE	TYPE	PLANTING RATE
AUG 15 - FEB 1	TALL FESCUE AND WINTER RYE (GRAIN)	70 LBS/ACRE 25 LBS/ACRE
APR 1 - AUG 15	TALL FESCUE AND GERMAN MILLET *** OR SUDANGRASS (SMALL-STEMMED VAR.) ***	120 LBS/ACRE 25 LBS/ACRE 30 LBS/ACRE

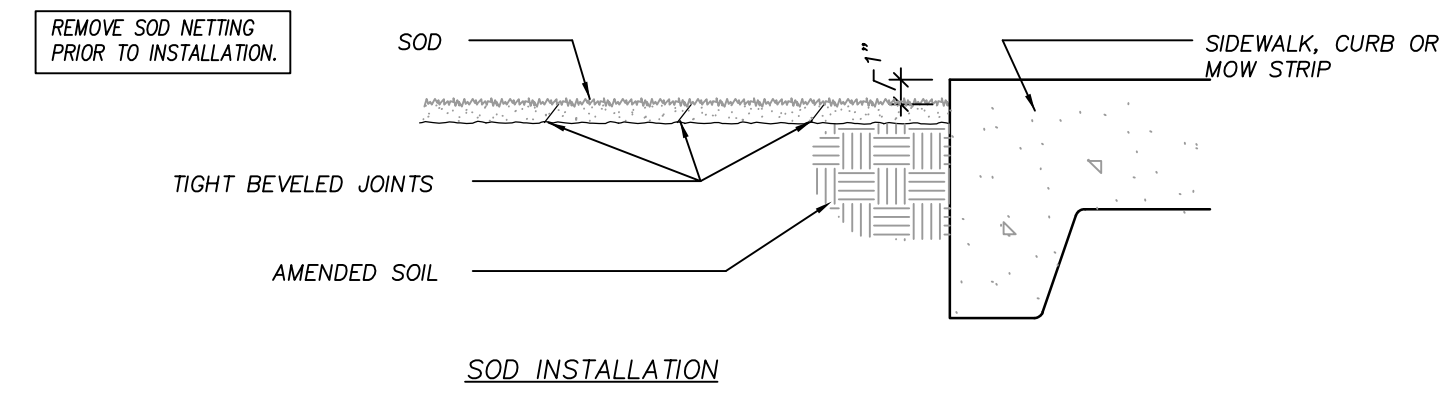
CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDEED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING.

TEMPORARY SEEDING SCHEDULE



GROUND COVER PLANTING DETAIL



SOD INSTALLATION DETAIL

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 - REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
 - REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 - ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 - ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDING.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF PLANT MATERIAL.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS (I.E. HOLES WHICH WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS).
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL FINAL COMPLETION. ANY WATERING OR MAINTENANCE REQUIRED AFTER FINAL COMPLETION SHALL BE AT OWNER'S COST.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDING AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND RESEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- GENERAL LAWN AREAS SHALL BE SEEDING WITH SUNSTAR/RIVERA BERMUDAGRASS OR APPROVED EQUAL.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING, IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.

LANDSCAPE NOTES

- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

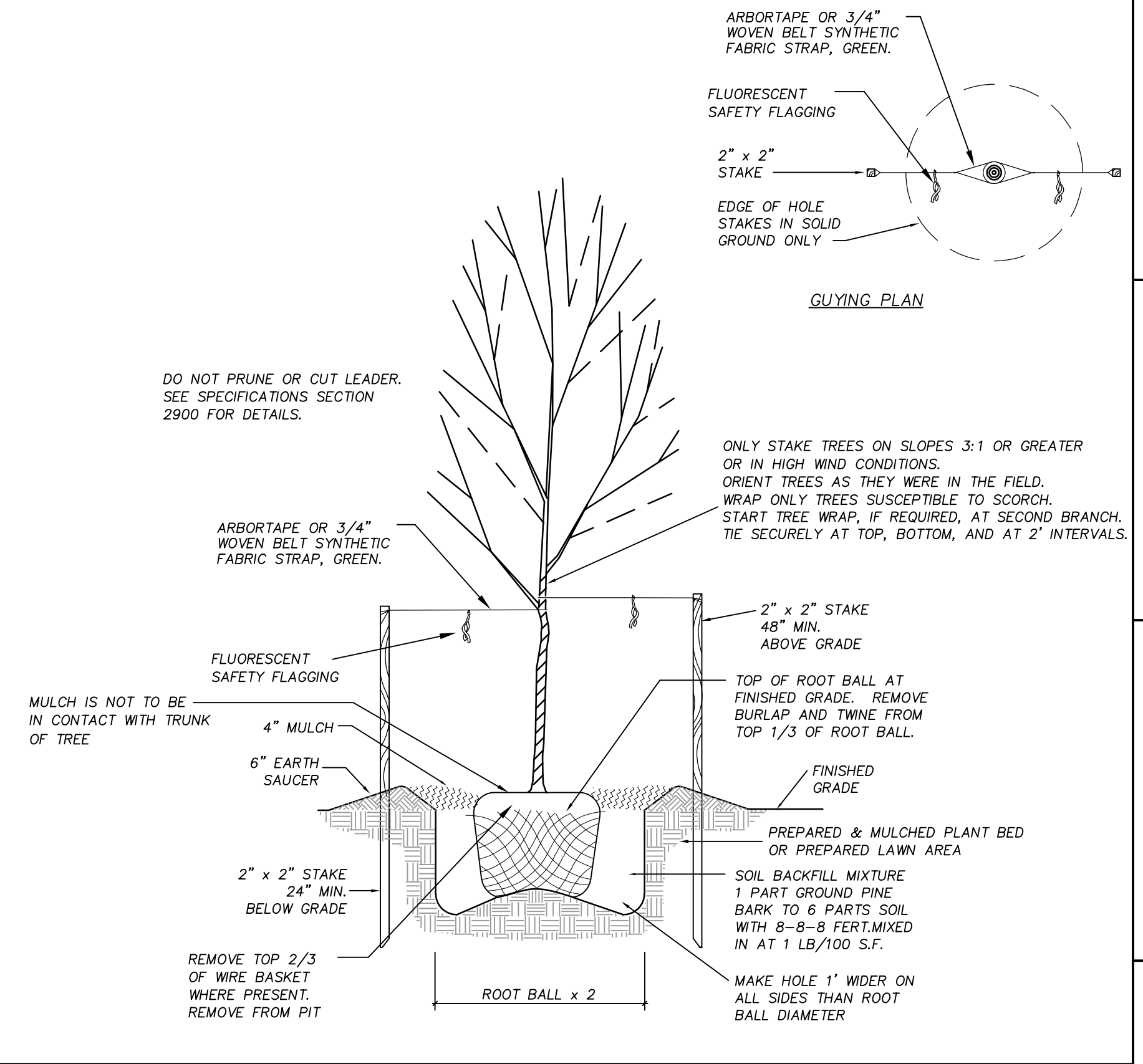
SEEDBED PREPARATION

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

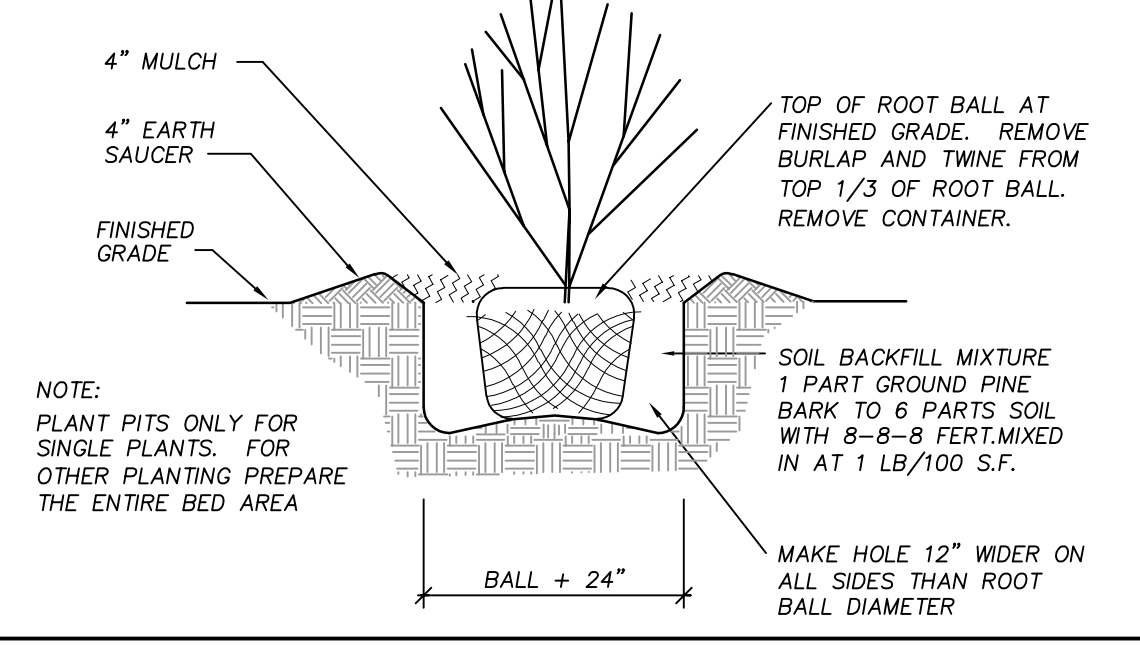
LIME & FERTILIZATION SCHEDULE

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCESS/SIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE (2 TONS LB/AC) GRAIN STRAW OVER SEEDING AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.

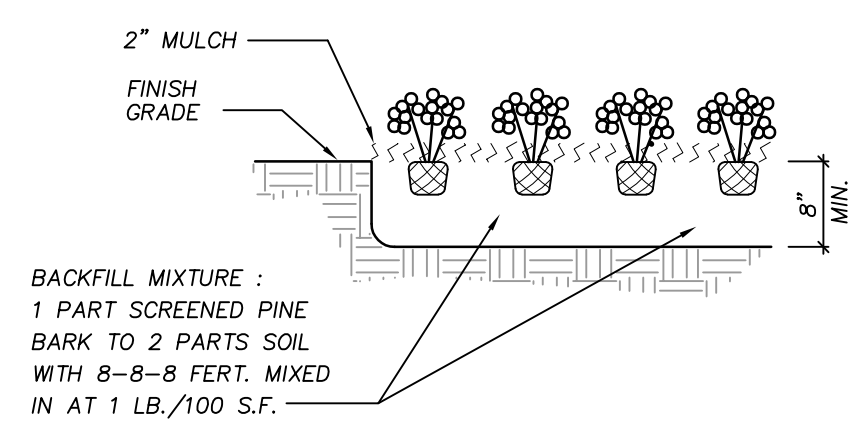
SURFACE STABILIZATION REQUIREMENTS



TREE PLANTING DETAIL



TYPICAL SHRUB PLANTING DETAIL



GROUND COVER PLANTING DETAIL

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	
TRAFFIC _____	
FIRE _____	

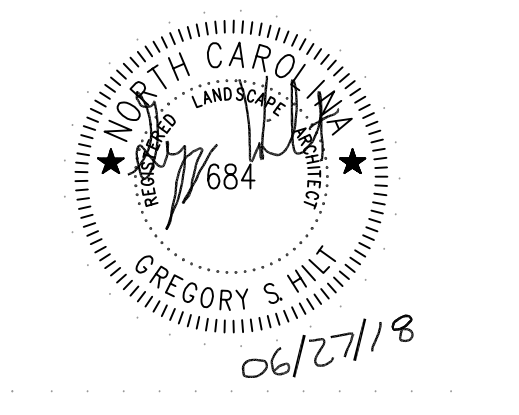


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REVISIONS:

No.	Description	Date
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B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

SITE/CIVIL DETAILS

C-710

WETLAND CONSTRUCTION SEQUENCE

1. THE STORMWATER WETLAND SHALL BE UTILIZED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
- 1.1. SCHEDULE THE FOLLOWING WORK TO CONCLUDE WITH AN EXTENDED FORECAST OF NO PRECIPITATION SUCH THAT ALL WORK CAN BE COMPLETED DURING A PERIOD OF DRY WEATHER. INSTALL COFFER DAM UPSTREAM OF POND IN CASE OF ANY UNEXPECTED PRECIPITATION EVENT. UTILIZE MUD PUMP WITH FLOATING SUCTION INLET THROUGH A SEDIMENT FILTER BAG LOCATED DOWNSTREAM OF BASIN.
- 1.2. INSTALL WETLAND BARREL, OUTLET STRUCTURE, EMBANKMENT, EMERGENCY SPILLWAY AND OTHER WETLAND COMPONENTS.
- 1.3. CALL FOR SITE INSPECTION PRIOR TO BACKFILLING WETLAND BARREL.
- 1.4. INSTALL TEMPORARY SKIMMER ON WETLAND DRAIN. DRAIN VALVE TO REMAIN OPEN.
- 1.5. EXCAVATE WETLAND TO TEMPORARY SKIMMER BASIN DIMENSIONS. SEE EROSION CONTROL PLAN.
- 1.6. INSTALL BAFFLES AND OTHER TEMPORARY SKIMMER BASIN COMPONENTS, SEE TEMPORARY SKIMMER BASIN DETAIL.
- 1.7. SEED ALL DISTURBED AREAS.
2. FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF POND DRAINAGE BASIN, PERFORM THE FOLLOWING:
 - 2.1. SCHEDULE THE FOLLOWING WORK TO CONCLUDE WITH AN EXTENDED FORECAST OF NO PRECIPITATION SUCH THAT ALL WORK CAN BE COMPLETED DURING A PERIOD OF DRY WEATHER. INSTALL COFFER DAM UPSTREAM OF POND IN CASE OF ANY UNEXPECTED PRECIPITATION EVENT. UTILIZE MUD PUMP WITH FLOATING SUCTION INLET THROUGH A SEDIMENT FILTER BAG LOCATED DOWNSTREAM OF BASIN.
 - 2.2. REMOVE TEMPORARY BAFFLES.
 - 2.3. REMOVE ALL ACCUMULATED SEDIMENT. GRADE WETLAND INTERIOR TO SUBGRADE ELEVATIONS.
 - 2.4. INSTALL CLAY LINER AND ARMORED SECTIONS OF FOREBAY WEIRS.
 - 2.5. IF ADDITIONAL DE-WATERING IS NEEDED BELOW DRAIN/SKIMMER ELEVATION, UTILIZE A MUD PUMP WITH FLOATING SUCTION INLET AND DISCHARGE REMAINING WATER THROUGH A SEDIMENT FILTER BAG LOCATED OUTSIDE OF THE BASIN. MONITOR PUMPING TO ENSURE FLOW DOES NOT EXCEED THE CAPACITY OF FILTER BAG.
- 2.6. INSTALL AND FINE GRADE TOPSOIL TO FINISH GRADES.
- 2.7. INSTALL TEMPORARY SLOPE LININGS.
- 2.8. REMOVE TEMPORARY CAP/BLOCKING FROM PRIMARY SPILLWAY.
- 2.9. INSTALL WETLAND PLANTINGS.
- 2.10. PERFORM DETAILED TOPOGRAPHIC SURVEY.
- 2.11. FOLLOWING APPROVAL OF SURVEY, REMOVE TEMPORARY SKIMMER AND CLOSE DRAIN VALVE.

OUTLET STRUCTURE NOTES:

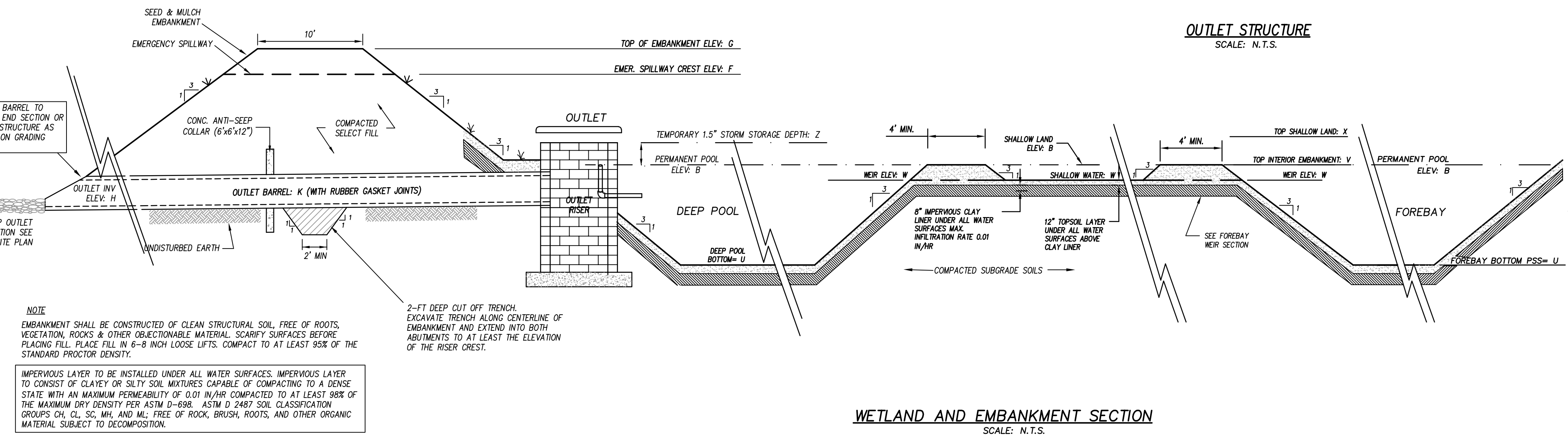
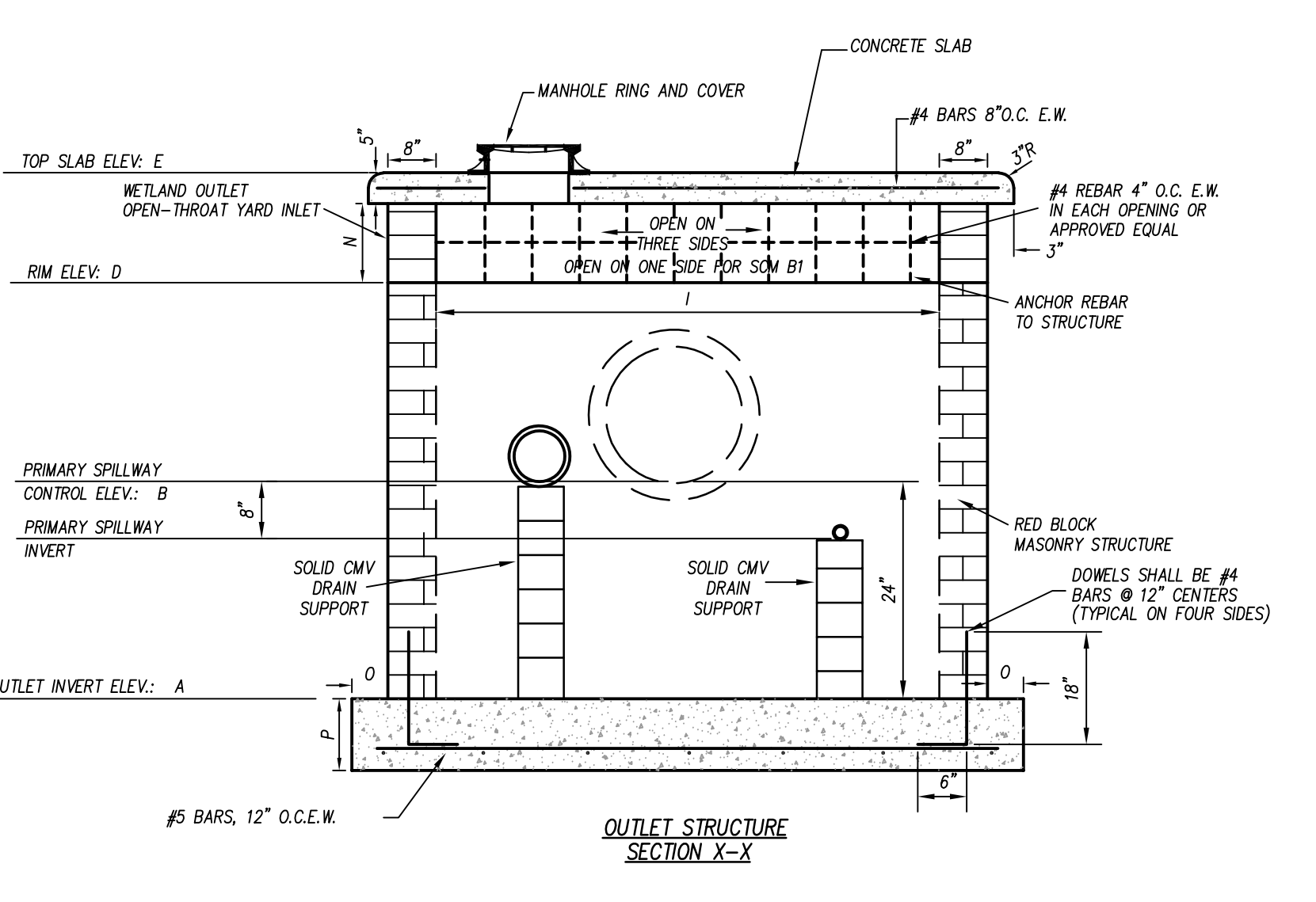
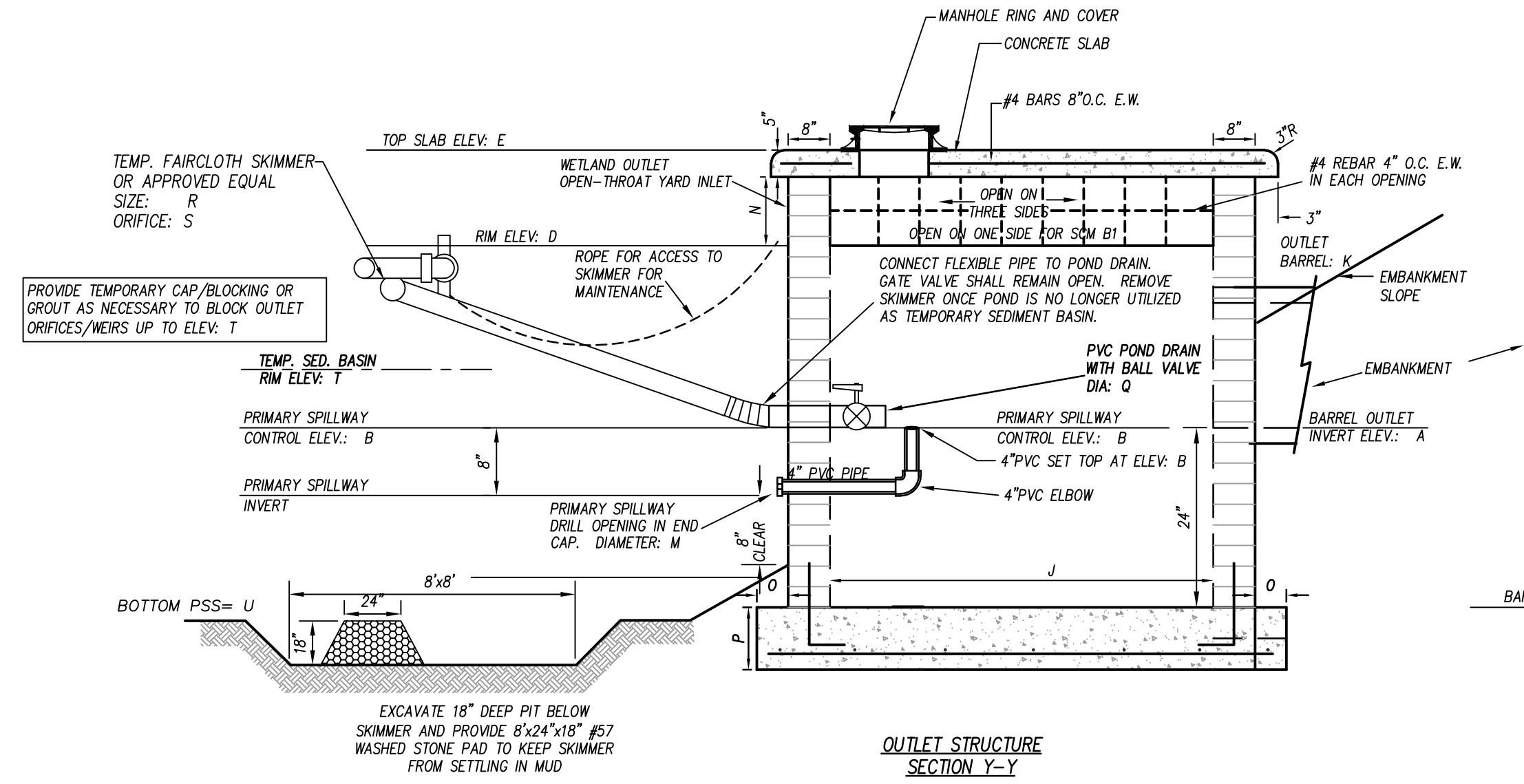
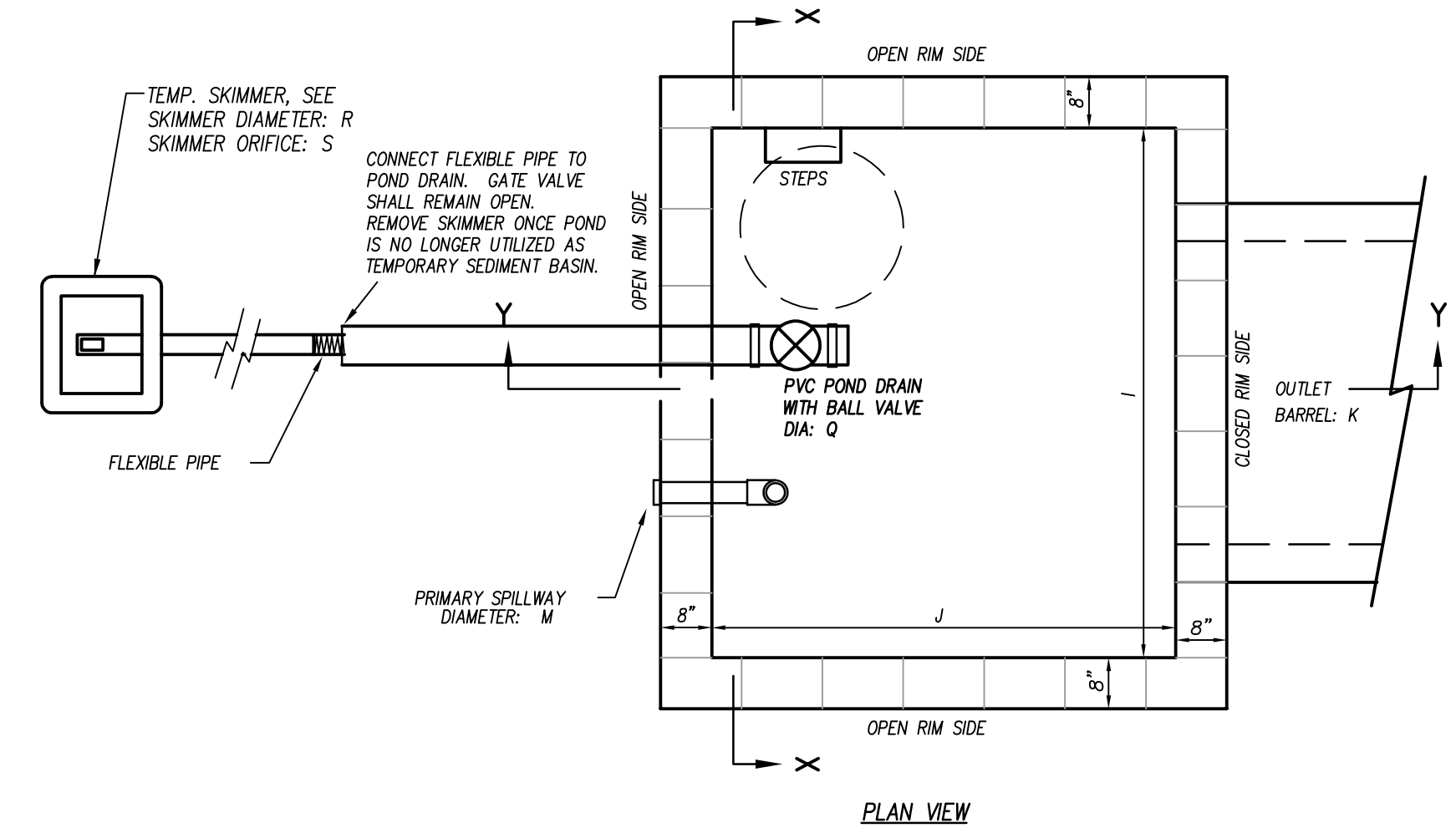
1. ALL STRUCTURES OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 1'-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STANDARD 840.66.
2. LOCATE MANHOLE OVER STEPS.
3. CLASS 74 (3,000 PSI) CONCRETE TO BE USED.
4. ALL MOTOR JOINTS ARE 1/2" ± 1/8".
5. GROUT SHALL BE NON-SHRINK (ASTM-C1107)
6. CONCRETE BLOCK SHALL MEET NCDOT SPECIFICATIONS SECTION 1040-2.
7. BLOCK SHALL BE RED IN COLOR AND SUBSTANTIALLY FREE FROM CHIPS AND CRACKS.

TEMPORARY SEDIMENT BASIN CONSTRUCTION NOTES:

1. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS INDICATED. CLEAR, CRIP AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOILS CONTAINING ORGANIC MATTER.
2. PLACE OUTLET BARREL ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL OR CRUSHED STONE AS BACKFILL AROUND PIPE. PLACE FILL MATERIAL AROUND PIPE IN 4-IN LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY. CARE SHALL BE TAKEN TO NOT RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION.
3. INSTALL OUTLET PROTECTION AND CONCRETE ANTI-SEEP COLLAR.
4. CONSTRUCT OUTLET RISER STRUCTURE.
5. ASSEMBLE THE SKIMMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ATTACH SKIMMER TO RISER WITH FLEXIBLE JOINT AND POSITION THE SKIMMER OVER THE EXCAVATED PIT. ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN.
6. EMBANKMENT SHALL BE CONSTRUCTED OF CLEAN STRUCTURAL SOIL, FREE OF ROOTS, VEGETATION, ROCKS & OTHER OBJECTIONABLE MATERIAL. SCARIFY EMBANKMENT CORE AND CUT-OFF TRENCH OF IMPERVIOUS SOILS. SCARIFY SURFACES BEFORE PLACING FILL. PLACE FILL IN 6-8 INCH LOOSE LIFTS. COMPACT TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY.
7. APPLY SEED AND LINE THE ENTIRE EMERGENCY SPILLWAY WITH EXCELSIOR MATTING.
8. INSTALL BAFFLES ACROSS BOTTOM OF BASIN.

TEMPORARY SEDIMENT BASIN MAINTENANCE NOTES:

1. INSPECT DEVICE AFTER EACH RAINFALL. REMOVE SEDIMENT WHEN SEDIMENT REACHES A DEPTH OF NO MORE THAN ONE-HALF THE HEIGHT OF THE RISER. REPAIR BAFFLES IF DAMAGED.
2. PULL SKIMMER TO SIDE OF BASIN WITH ROPE AND INSPECT REGULARLY. KEEP SKIMMER HEAD, ORIFICE AND PIPE FREE OF DEBRIS. REMOVE SEDIMENT FROM BENEATH SKIMMER AND ENSURE VEGETATION DOES NOT INTERFERE WITH SKIMMER OPERATION.
3. PROVIDE PAINT MARK ON RISER AT 12" HEIGHT. CLEAN AND REPAIR ONCE SEDIMENT REACHES MARK.
4. INSTALL ALL COMPONENTS OF POND EMBANKMENT, OUTLET STRUCTURE, SKIMMER, EMERGENCY SPILLWAY, ETC. (UNLESS NOTED) PRIOR TO BEGINNING CLEARING OPERATIONS.
5. SEE SHEET C7.2 FOR TEMPORARY BAFFLE INSTALLATION.



NOTE
EMBANKMENT SHALL BE CONSTRUCTED OF CLEAN STRUCTURAL SOIL, FREE OF ROOTS, VEGETATION, ROCKS & OTHER OBJECTIONABLE MATERIAL. SCARIFY SURFACES BEFORE PLACING FILL. PLACE FILL IN 6-8 INCH LOOSE LIFTS. COMPACT TO AT LEAST 95% OF THE STANDARD PROCTOR DENSITY.

IMPERVIOUS LAYER TO BE INSTALLED UNDER ALL WATER SURFACES. IMPERVIOUS LAYER TO CONSIST OF CLAYEY OR SILTY SOIL MATERIALS CAPABLE OF COMPACTING TO A DENSE STATE WITH A MAXIMUM PERMEABILITY OF 0.01 IN/HR COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-698. ASTM D 2487 SOIL CLASSIFICATION GROUPS CH, CL, SC, MH, AND ML; FREE OF ROCK, BRUSH, ROOTS, AND OTHER ORGANIC MATERIAL SUBJECT TO DECOMPOSITION.

2'-FT DEEP CUT OFF TRENCH. EXCAVATE TRENCH ALONG CENTERLINE OF EMBANKMENT AND EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE RISER CREST.

WETLAND AND EMBANKMENT SECTION
SCALE: N.T.S.

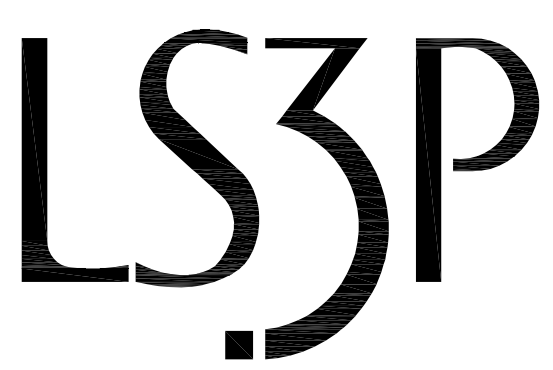
STORMWATER WETLAND/TEMPORARY SEDIMENT BASIN
N.T.S.

WETLAND MAINTENANCE SCHEDULE									
DESCRIPTION	METHOD	FREQUENCY	SEASON	DESCRIPTION	METHOD	FREQUENCY	SEASON		
EMBANKMENT				PLANTS					
INSPECT AND REPAIR EROSION / ANIMAL NESTINGS	VISUAL	ANNUALLY	ALL	REPLACE ANY DEAD OR DISEASED VEGETATION CONSIDERED BEYOND TREATMENT	SEE PLANTING SPECIFICATIONS	TWICE PER YEAR	MAR 15 - APR 30 OCT 1 - NOV 30		
OUTLET STRUCTURE				TREAT ALL DISEASED PLANTS NOT TO BE REMOVED					
DEBRIS / OBSTRUCTIONS	BY HAND	WHENEVER NEEDED	ALL	MECHANICAL OR BY HAND	WHENEVER NEEDED	ALL			
FOREBAY / DEEP POOL				WATER PLANT MATERIAL AND END OF EACH DAY FOR 14 CONSECUTIVE DAYS AFTER PLANTING					
SEDIMENT / DEBRIS	BY HAND	ONCE PER 6 MONTHS OR WHEN 1/2 FULL OF SEDIMENT	ALL	REPLACE SUPPORT STAKES	BY HAND	ONCE PER YEAR	SPRING		
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE UNTIL SUBSTANTIAL COMPLETION AT WHICH TIME OWNER WILL ASSUME MAINTENANCE RESPONSIBILITY.				REPLACE DEFICIENT STAKES OR WIRES					
LANDSCAPE WARRANTIES SHALL APPLY TO STORMWATER WETLAND PLANTINGS.				BY HAND				WHENEVER NEEDED	ALL

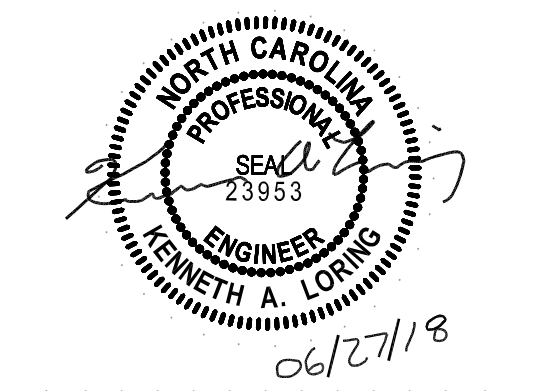
WETLAND SCHEDULE											
SCM NUMBER	SCM-A1	SCM-A2	SCM-B1	SCM-B1	DESCRIPTION	SCM NUMBER	SCM-A1	SCM-A2	SCM-B	SCM-B	DESCRIPTION
A (FT)	26.50	25.80	26.70	27.00	BARREL OUTLET ELEVATION	Q (N)	6	4	6	4	DRAIN PIPE AND VALVE DIAMETER
B (FT)	26.50	26.00	26.70	27.00	PRIMARY SPILLWAY CONTROL ELEVATION	R (N & CF/DAYS)	2 & 9,849	1.5 & 5,184	2.5 & 18,702	1.25 & 4,085	SKIMMER DIAMETER & SKIMMER 3 DAY CAPACITY
C (FT)	24.50	23.80	24.70	25.00	BOTTOM OF OUTLET STRUCTURE	S (N & CF/DAY)	1.5 & 2,048	1.5 & 1,774	2 & 4,072	1.5 & 5,184	SKIMMER ORIFICE DIAMETER
D (FT)	27.58	27.25	27.65	28.00	RIM ELEVATION	T (FT)	27.50	27.50	28.00	28.00	TEMPORARY SEDIMENT STORAGE ELEVATION
E (FT)	29.92	29.42	29.92	29.92	TOP SLAB ELEVATION	U (FT)	24.50	24.00	24.00	25.00	BMP BOTTOM ELEV.
F (FT)	28.50	28.00	29.50	29.00	EMERGENCY SPILLWAY CREST ELEVATION	V (FT)	26.50	26.00	26.70	27.00	TOP INTERIOR EMBANKMENT
G (FT)	30.50	29.50	30.50	30.00	TOP OF EMBANKMENT ELEVATION	W (FT)	26.00	25.50	26.20	26.50	SHALLOW WATER BOTTOM ELEV.
H (FT)	25.43	25.60	26.53	26.73	INVERT OF FES OUTLET/STORM STRUCTURE	X (FT)	27.58	27.25	27.95	28.00	SHALLOW LAND TOP ELEV.
I (FT)	3	3	3	3	OUTLET STRUCTURE INTERIOR WIDTH	Z (N)	12	14	15	15	TEMPORARY 1-1/2' STORM STORAGE DEPTH
J (FT)	3	3	3	3	OUTLET STRUCTURE INTERIOR LENGTH		2-1/2' STORM ELEV.	28.00'	27.46'	28.49'	28.19'
K	214 LF 15"ROP	40 LF 15"ROP	34 LF 15"ROP	54 LF 15"ROP	OUTLET BARREL		10-YR STORM ELEV.	28.46'	27.68'	29.19'	28.41'
L (FT)	12	12	20	8	EMERGENCY SPILLWAY WIDTH		25-YR STORM ELEV.	28.65'	27.84'	29.52'	28.52'
M (N)	1-1/4	1	2	7/8	PRIMARY SPILLWAY ORIFICE		50-YR STORM ELEV.	28.76'	27.97'	29.70'	28.61'
N (N)	24	22	19	18	THROAT OPENING HEIGHT		50-YR STORM ELEV.	29.09'	28.45'	29.94'	28.98'
O (N)	12	12	12	12	CONCRETE BASE EXTENSION WIDTH	SHWT ELEV.	26.37'	27.83'	28.60'	TBD	SEASONAL HIGH WATER TABLE ELEVATION
P (N)	12	12	12	8	CONCRETE BASE EXTENSION THICKNESS	CLAY LINER	YES	YES	NO	YES	CLAY LINER REQUIRED



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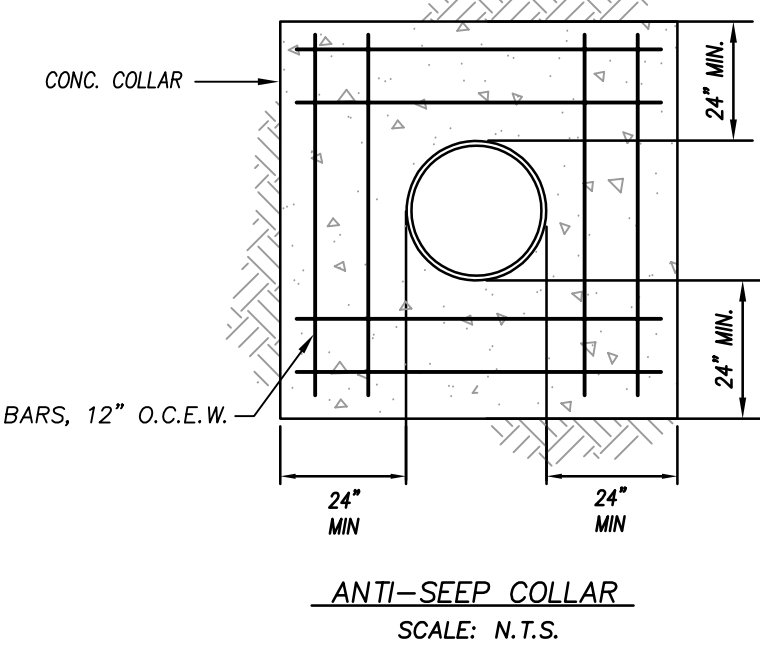
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DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

SITE/CIVIL DETAILS
C-711

SCM AS-BUILT SURVEY REQUIREMENTS

NOTE: CONTRACTOR SHALL PROVIDE AS-BUILT TOPOGRAPHIC SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR CERTIFYING SCM AREA DIMENSIONS AND ELEVATIONS OF THE FOLLOWING:

1. OUTLET STRUCTURE TOPS AND INVERTS, ORIFICE/MEIR DIAMETERS, BARREL PIPE SIZES AND INVERTS AND STRUCTURE HEIGHT & WIDTH DIMENSIONS.
2. EMERGENCY SPILLWAY ELEVATION AND DIMENSIONS.
3. TOPOGRAPHY THAT EXTENDS 20 FEET OUTSIDE LIMITS OF POND WATER SURFACE AND EMBANKMENT.
4. CONTRACTOR PROVIDE TEST RESULTS OF CLAY LINER.
5. CONTRACTOR TO PROVIDE PHOTOS OF SCM INSTALLATION AT EACH PHASE OF CONSTRUCTION.
6. SEE CITY OF WILMINGTON RECORD (AS-BUILT) CHECK LIST FOR ADDITIONAL SITE AND SCM SURVEY REQUIREMENTS. CHECK LIST IS AVAILABLE ON THE CITY OF WILMINGTON WEB SITE.

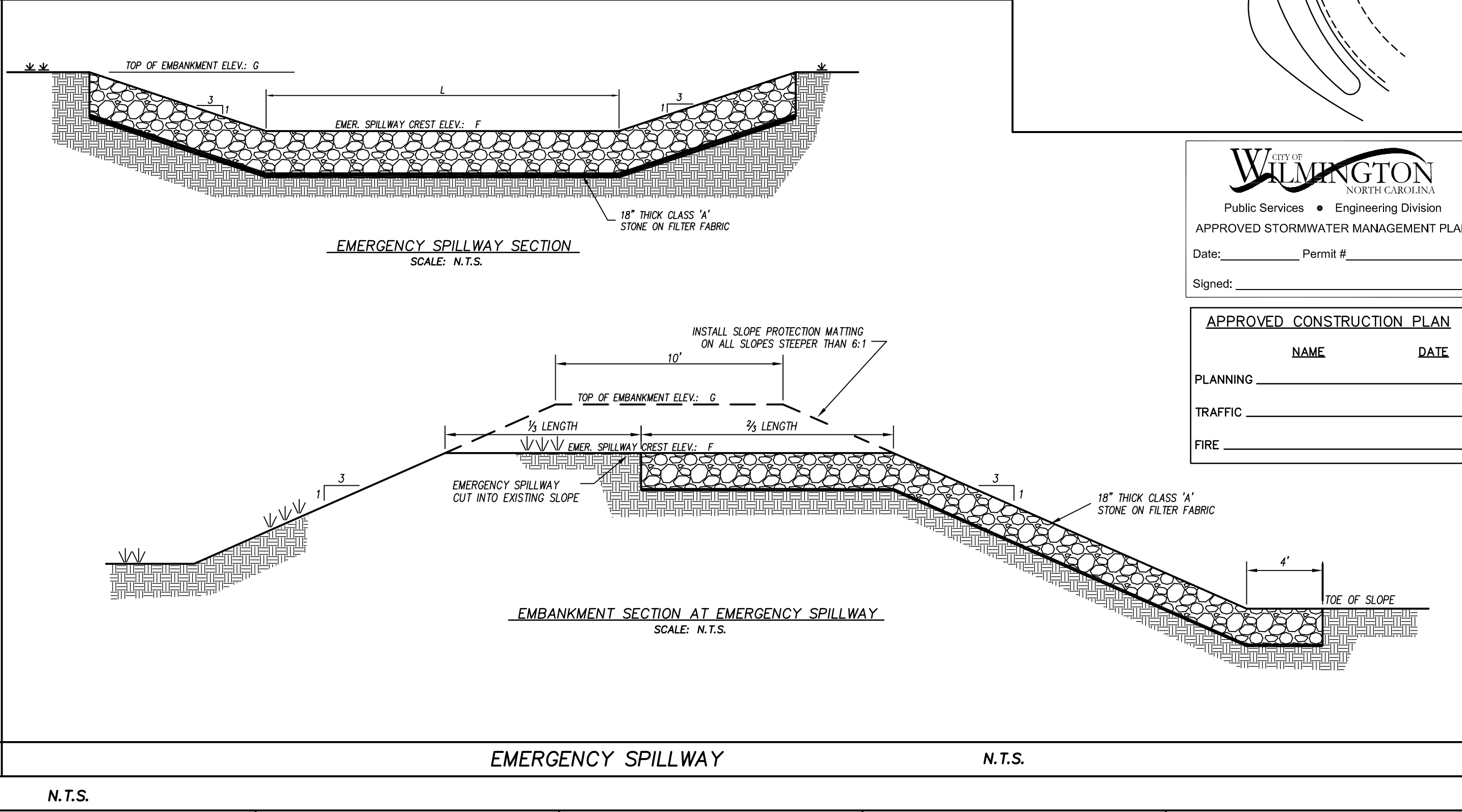
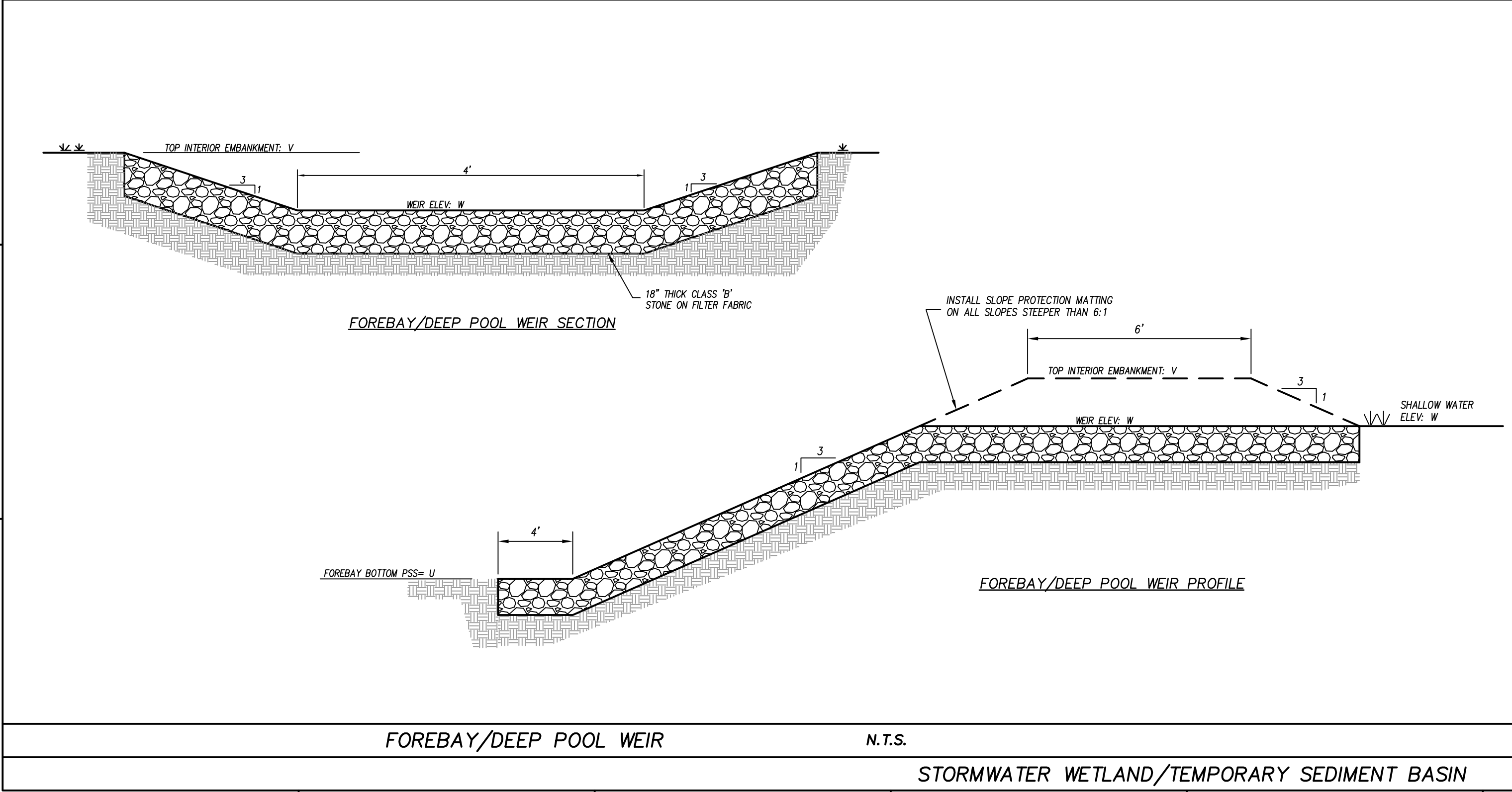
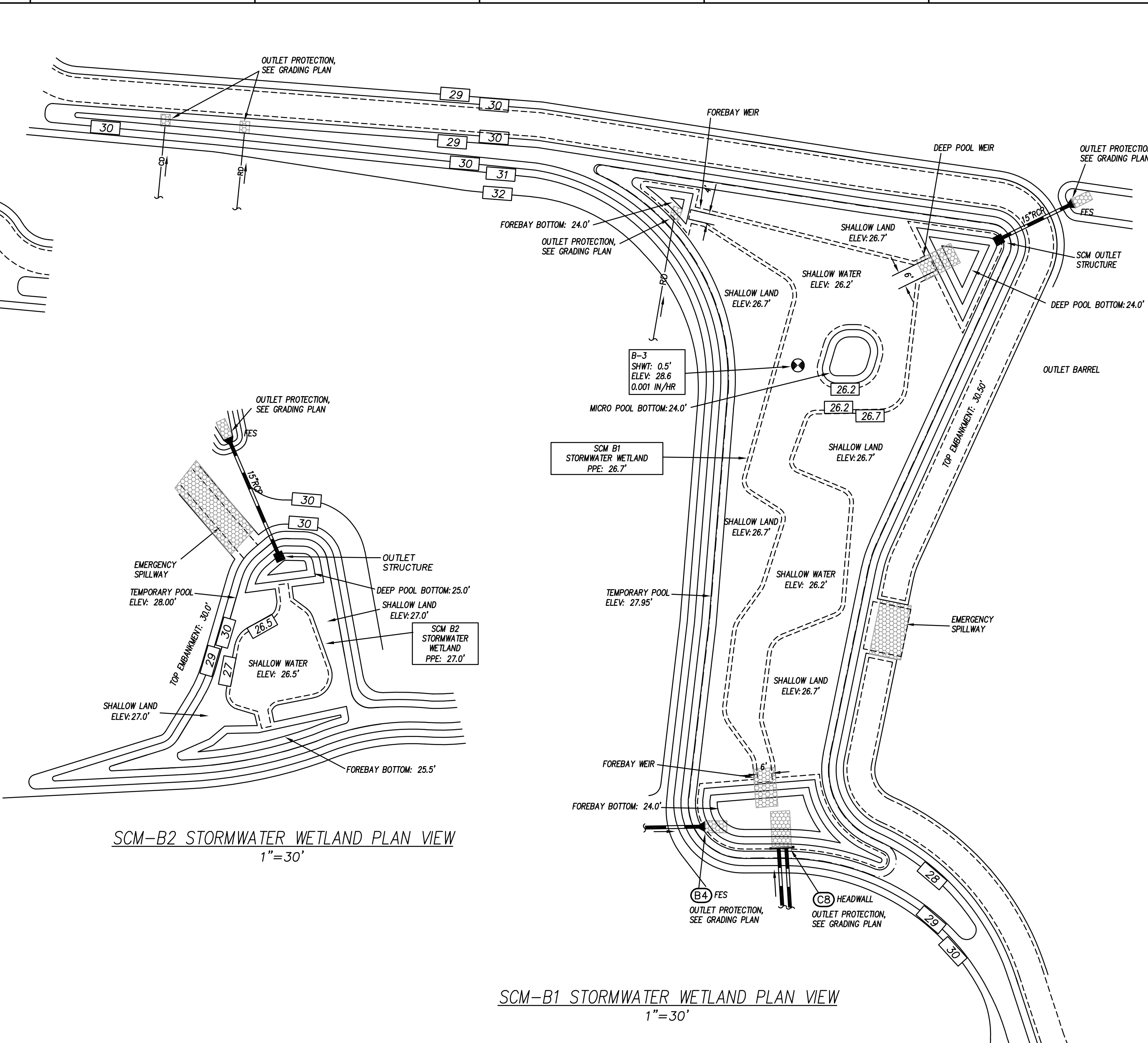
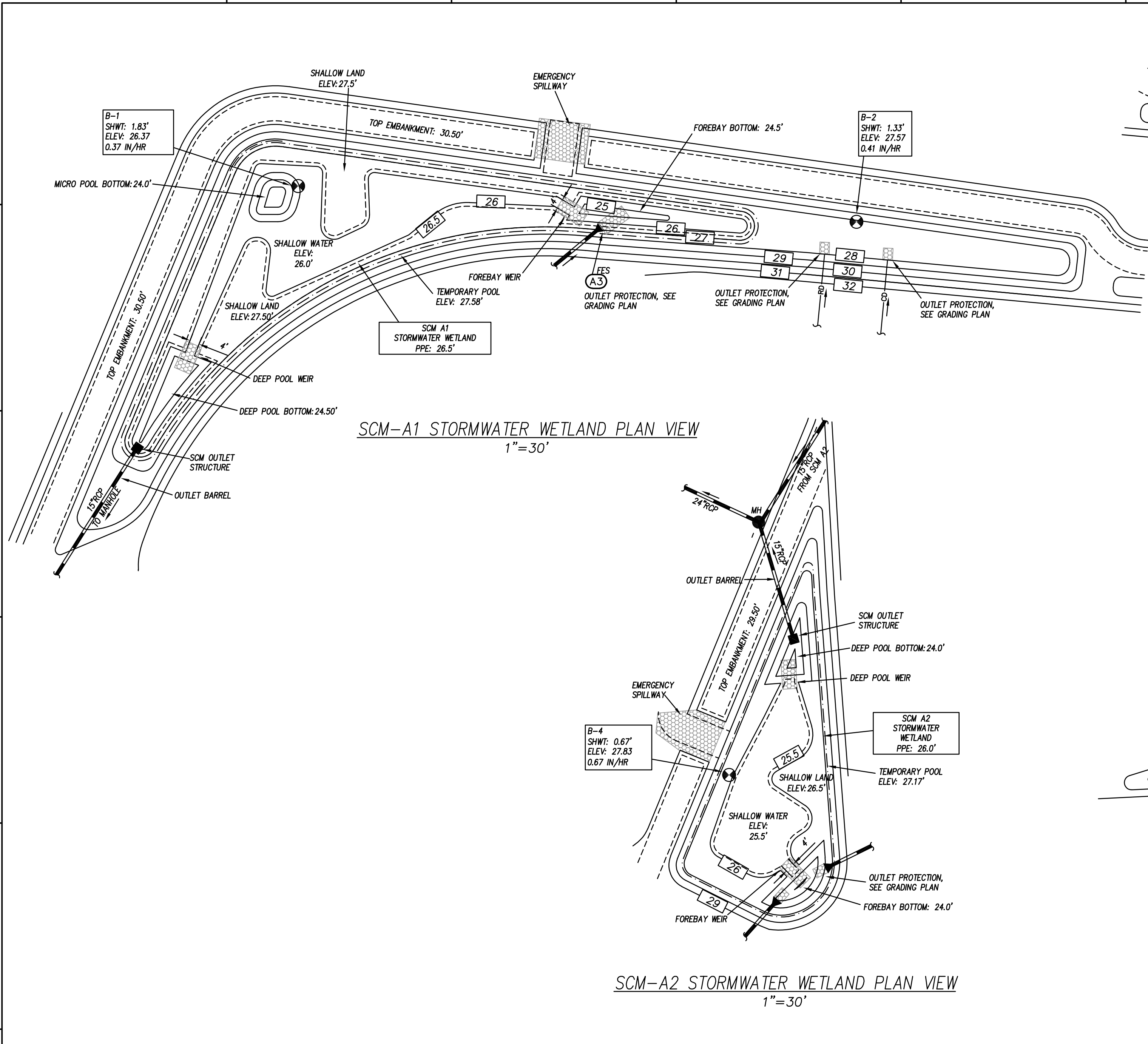
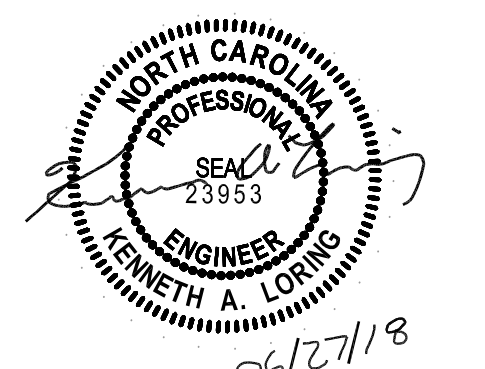


CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____
Signed: _____

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	_____
TRAFFIC	_____
FIRE	_____



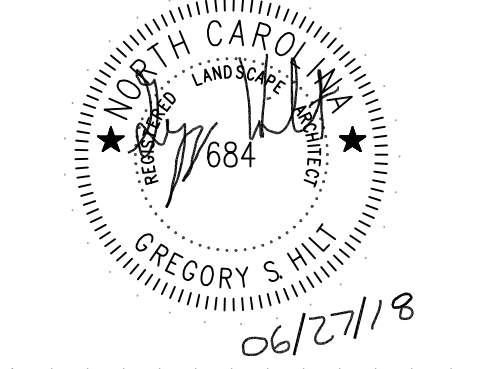
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 NORTH CAROLINA
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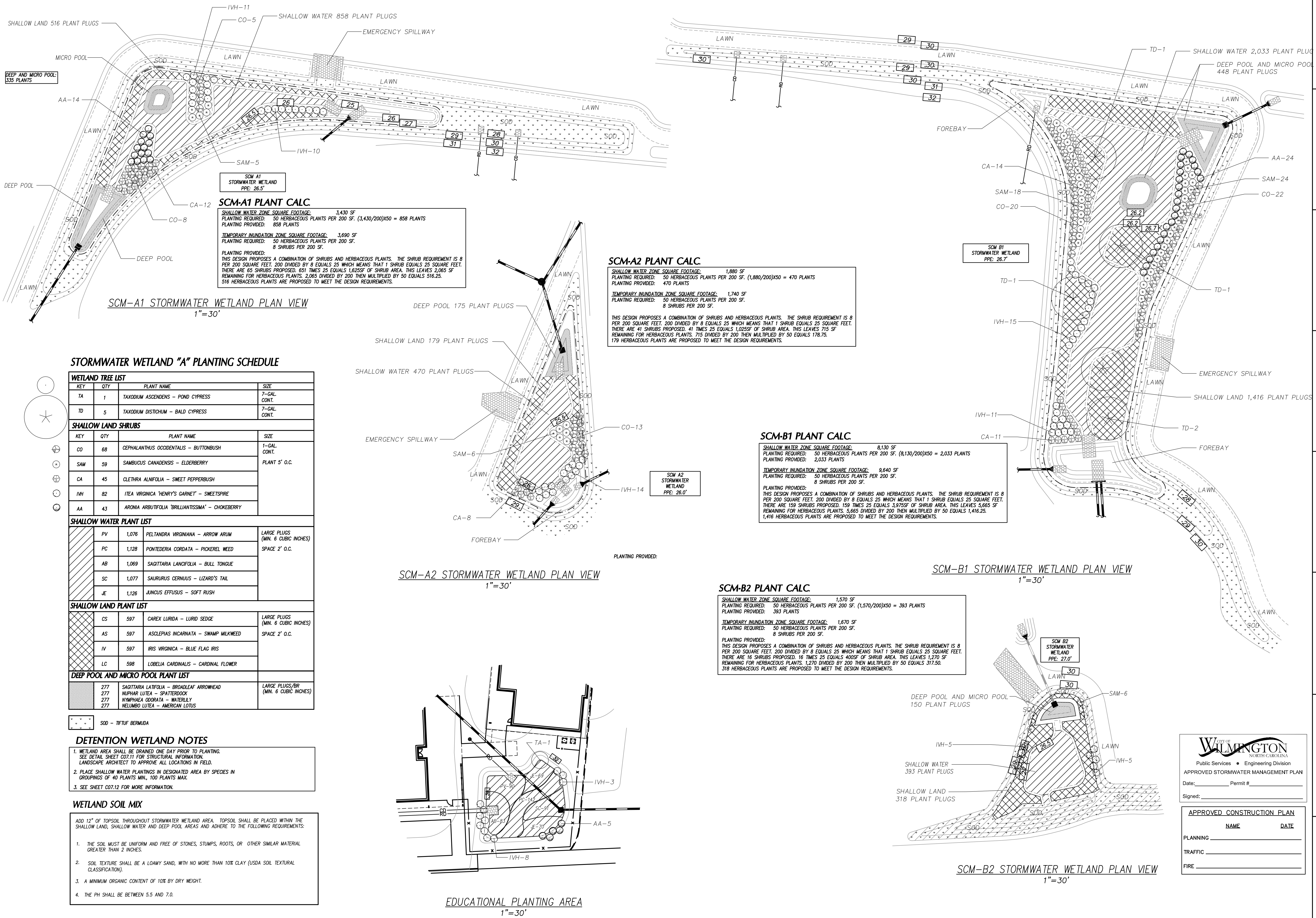
REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350 / (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

SITE/CIVIL DETAILS

C-713



SCM-A1 PLANT CALC.
SHALLOW WATER ZONE SQUARE FOOTAGE: 3,430 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (3,430/200)X50 = 858 PLANTS
PLANTING PROVIDED: 858 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 3,690 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. 8 SHRUBS PER 200 SF.
PLANTING PROVIDED:
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 65 SHRUBS PROPOSED. 65 TIMES 25 EQUALS 1,625 SF OF SHRUB AREA. THIS LEAVES 2,065 SF REMAINING FOR HERBACEOUS PLANTS. 2,065 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 516.25. 516 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

SCM-A2 PLANT CALC.
SHALLOW WATER ZONE SQUARE FOOTAGE: 1,880 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,880/200)X50 = 470 PLANTS
PLANTING PROVIDED: 470 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 1,740 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. 8 SHRUBS PER 200 SF.
PLANTING PROVIDED:
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 41 SHRUBS PROPOSED. 41 TIMES 25 EQUALS 1,025 SF OF SHRUB AREA. THIS LEAVES 715 SF REMAINING FOR HERBACEOUS PLANTS. 715 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 178.75. 179 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

SCM-B1 PLANT CALC.
SHALLOW WATER ZONE SQUARE FOOTAGE: 8,130 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (8,130/200)X50 = 2,033 PLANTS
PLANTING PROVIDED: 2,033 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 9,640 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. 8 SHRUBS PER 200 SF.
PLANTING PROVIDED:
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 159 SHRUBS PROPOSED. 159 TIMES 25 EQUALS 3,975 SF OF SHRUB AREA. THIS LEAVES 5,665 SF REMAINING FOR HERBACEOUS PLANTS. 5,665 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 1,416.25. 1,416 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

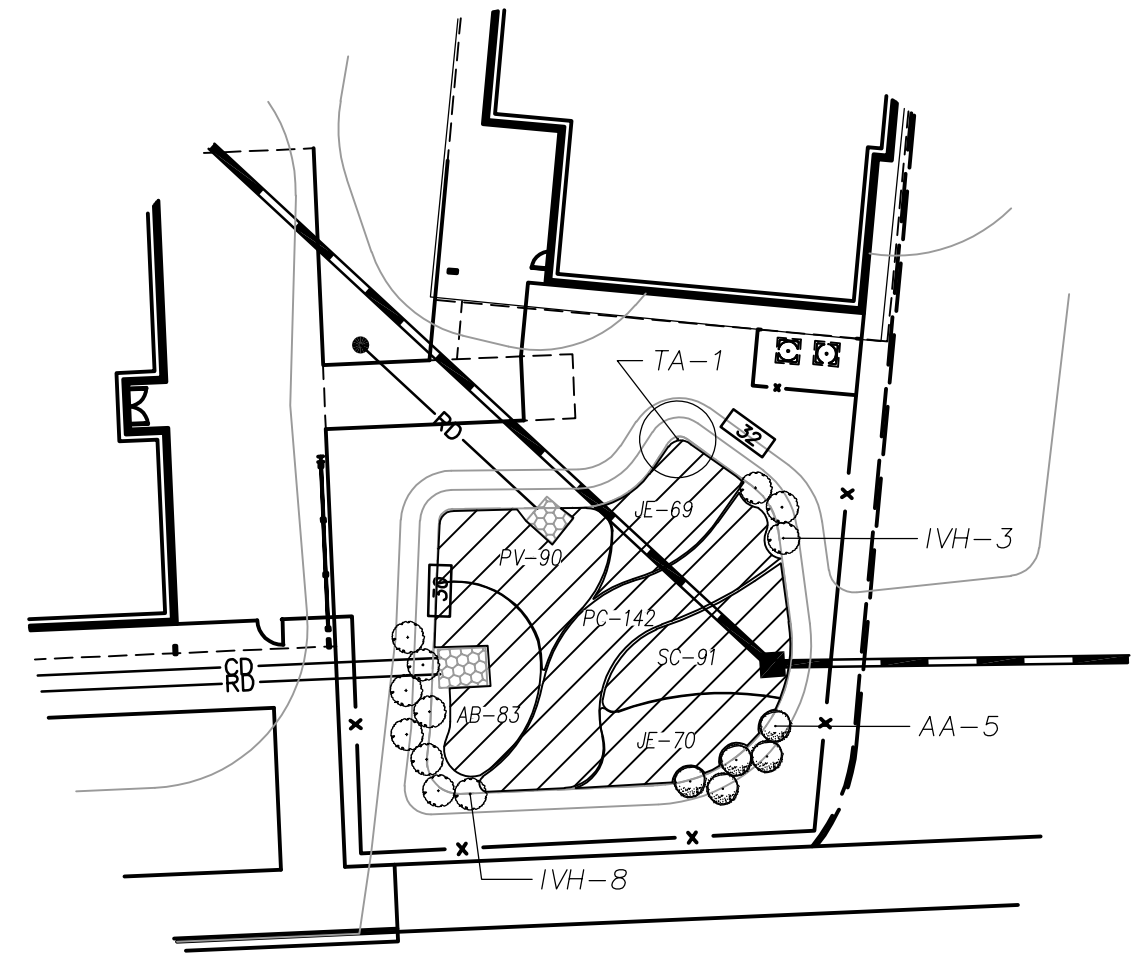
SCM-B2 PLANT CALC.
SHALLOW WATER ZONE SQUARE FOOTAGE: 1,570 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. (1,570/200)X50 = 393 PLANTS
PLANTING PROVIDED: 393 PLANTS
TEMPORARY INUNDATION ZONE SQUARE FOOTAGE: 1,670 SF
PLANTING REQUIRED: 50 HERBACEOUS PLANTS PER 200 SF. 8 SHRUBS PER 200 SF.
PLANTING PROVIDED:
THIS DESIGN PROPOSES A COMBINATION OF SHRUBS AND HERBACEOUS PLANTS. THE SHRUB REQUIREMENT IS 8 PER 200 SQUARE FEET. 200 DIVIDED BY 8 EQUALS 25 WHICH MEANS THAT 1 SHRUB EQUALS 25 SQUARE FEET. THERE ARE 16 SHRUBS PROPOSED. 16 TIMES 25 EQUALS 400 SF OF SHRUB AREA. THIS LEAVES 1,270 SF REMAINING FOR HERBACEOUS PLANTS. 1,270 DIVIDED BY 200 THEN MULTIPLIED BY 50 EQUALS 317.50. 318 HERBACEOUS PLANTS ARE PROPOSED TO MEET THE DESIGN REQUIREMENTS.

STORMWATER WETLAND "A" PLANTING SCHEDULE

WETLAND TREE LIST			
KEY	QTY	PLANT NAME	SIZE
TA	1	TAXODIUM ASCENDENS - POND CYPRESS	7-GAL. CONT.
TD	5	TAXODIUM DISTICHUM - BALD CYPRESS	7-GAL. CONT.
SHALLOW LAND SHRUBS			
KEY	QTY	PLANT NAME	SIZE
CO	68	CEPHALANTHUS OCCIDENTALIS - BUTTONBUSH	1-GAL. CONT.
SAM	59	SAMBUCUS CANADENSIS - ELDERBERRY	PLANT 5' O.C.
CA	45	CLETHRA ALNIFOLIA - SWEET PEPPERBUSH	
IVH	82	ITEA VIRGINICA 'HENRY'S GARNET' - SWEETSPIRE	
AA	43	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA' - CHOKEBERRY	
SHALLOW WATER PLANT LIST			
KEY	QTY	PLANT NAME	SIZE
PV	1,076	PELTANDRA VIRGINIANA - ARROW ARUM	LARGE PLUGS (MIN. 6 CUBIC INCHES)
PC	1,128	PONTEDERIA CORDATA - PICKEREL WEED	SPACE 2' O.C.
AB	1,069	SAGITTARIA LANCEIFOLIA - BULL TONGUE	
SC	1,077	SAURURUS CERNUUS - LIZARD'S TAIL	
JE	1,126	JUNCUS EFFUSUS - SOFT RUSH	
SHALLOW LAND PLANT LIST			
KEY	QTY	PLANT NAME	SIZE
CS	597	CAREX LURIDA - LURID SEDGE	LARGE PLUGS (MIN. 6 CUBIC INCHES)
AS	597	ASCLEPIAS INCARNATA - SWAMP MILKWEED	SPACE 2' O.C.
IV	597	IRIS VIRGINICA - BLUE FLAG IRIS	
LC	598	LOBELIA CARDINALIS - CARDINAL FLOWER	
DEEP POOL AND MICRO POOL PLANT LIST			
KEY	QTY	PLANT NAME	SIZE
277		SAGITTARIA LATIFOLIA - BROADLEAF ARROWHEAD	LARGE PLUGS/BR (MIN. 6 CUBIC INCHES)
277		NUPHAR LUTEA - SPATTERDOCK	
277		NYMPHAEA ODORATA - WATERLILY	
277		NELUMBO LUTEA - AMERICAN LOTUS	

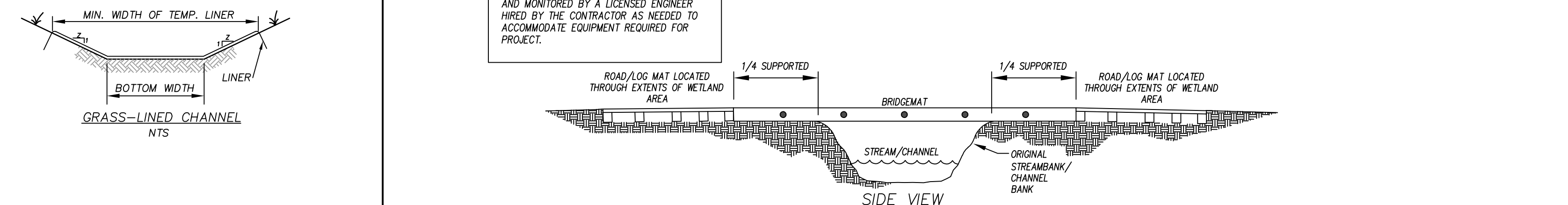
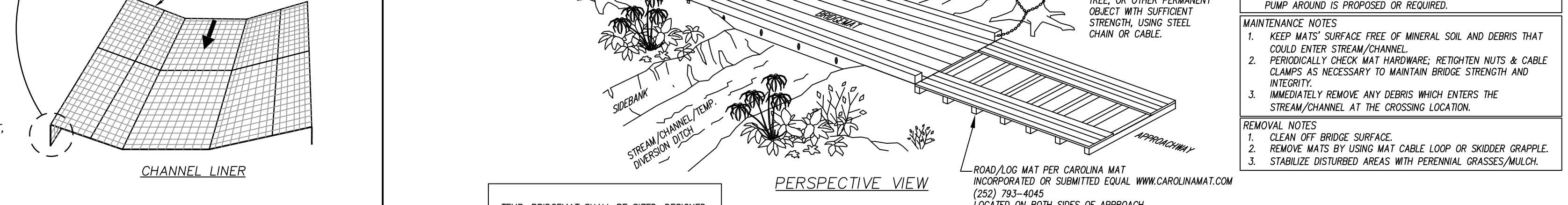
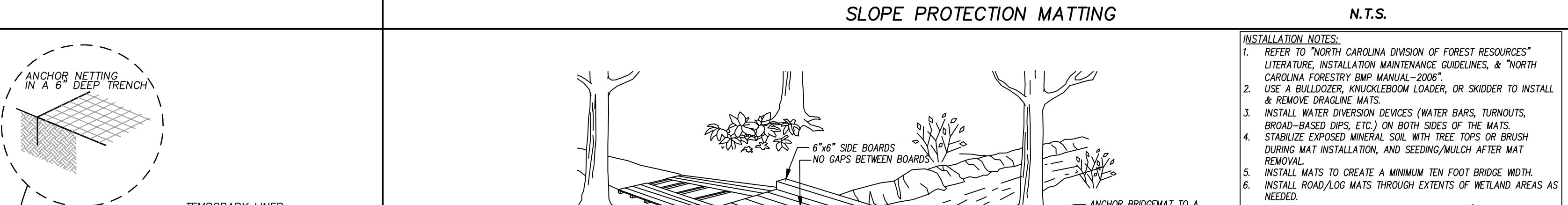
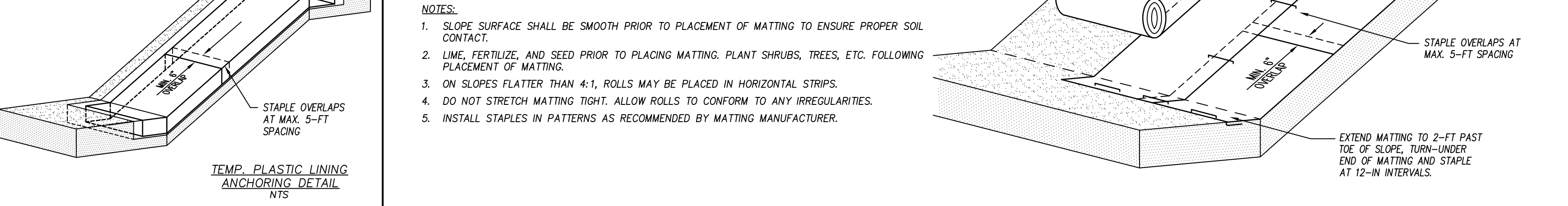
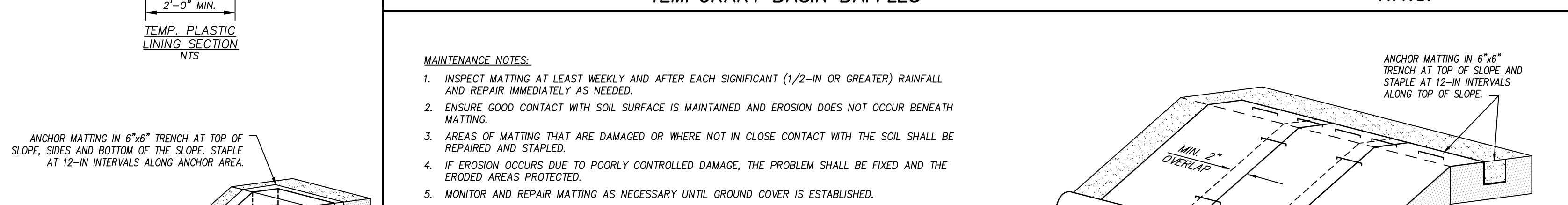
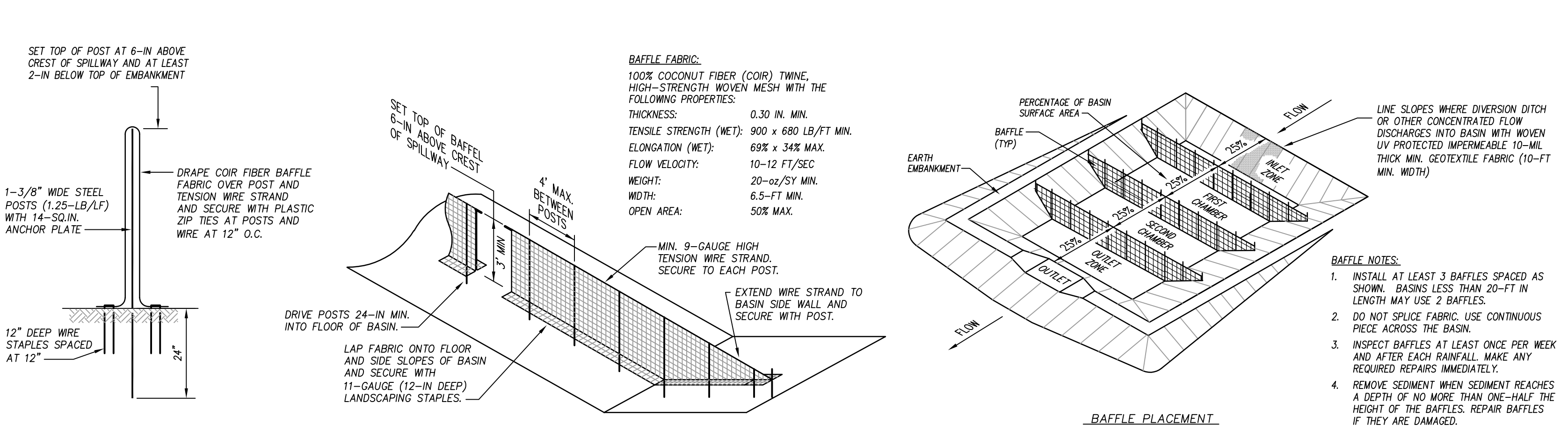
DETENTION WETLAND NOTES
1. WETLAND AREA SHALL BE DRAINED ONE DAY PRIOR TO PLANTING. SEE DETAIL SHEET C07.11 FOR STRUCTURAL INFORMATION. LANDSCAPE ARCHITECT TO APPROVE ALL LOCATIONS IN FIELD.
2. PLACE SHALLOW WATER PLANTINGS IN DESIGNATED AREA BY SPECIES IN GROUPINGS OF 40 PLANTS MIN., 100 PLANTS MAX.
3. SEE SHEET C07.12 FOR MORE INFORMATION.

WETLAND SOIL MIX
ADD 12" OF TOPSOIL THROUGHOUT STORMWATER WETLAND AREA. TOPSOIL SHALL BE PLACED WITHIN THE SHALLOW LAND, SHALLOW WATER AND DEEP POOL AREAS AND ADHERE TO THE FOLLOWING REQUIREMENTS:
1. THE SOIL MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES.
2. SOIL TEXTURE SHALL BE A LOAMY SAND, WITH NO MORE THAN 10% CLAY (USDA SOIL TEXTURAL CLASSIFICATION).
3. A MINIMUM ORGANIC CONTENT OF 10% BY DRY WEIGHT.
4. THE PH SHALL BE BETWEEN 5.5 AND 7.0.



EDUCATIONAL PLANTING AREA
1"=30'

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018



CHANNLE SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. WIDTH OF LINING (FT)	STONE DEPTH (IN)
1	10	3:1	0.16%	550 LF	GRASS	CURLD WOOD	20	N/A
3	2	3:1	0.46%	215 LF	GRASS	CURLD WOOD	8	N/A
4	3	3:1	0.73%	415 LF	GRASS	CURLD WOOD	9	N/A
5	6	3:1	0.05%	185 LF	GRASS	CURLD WOOD	18	N/A
6	6	3:1	0.07%	148 LF	GRASS	CURLD WOOD	18	N/A
7	3	3:1	0.37%	486 LF	GRASS	CURLD WOOD	15	N/A
8	3	3:1	0.50%	410 LF	GRASS	CURLD WOOD	12	N/A
9	3	3:1	7.4%	85 LF	GRASS	CURLD WOOD	12	N/A

APPROVED CONSTRUCTION PLAN

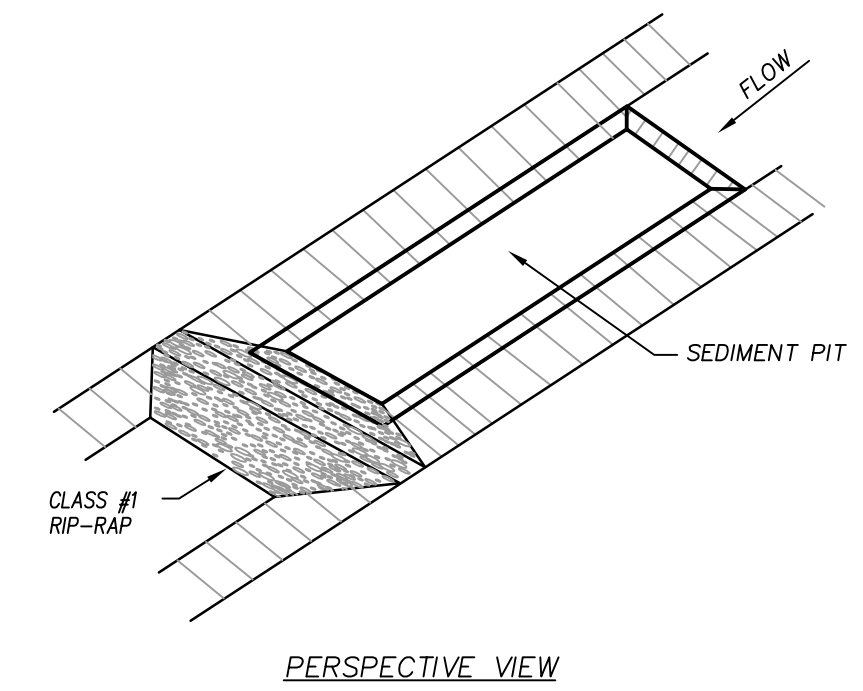
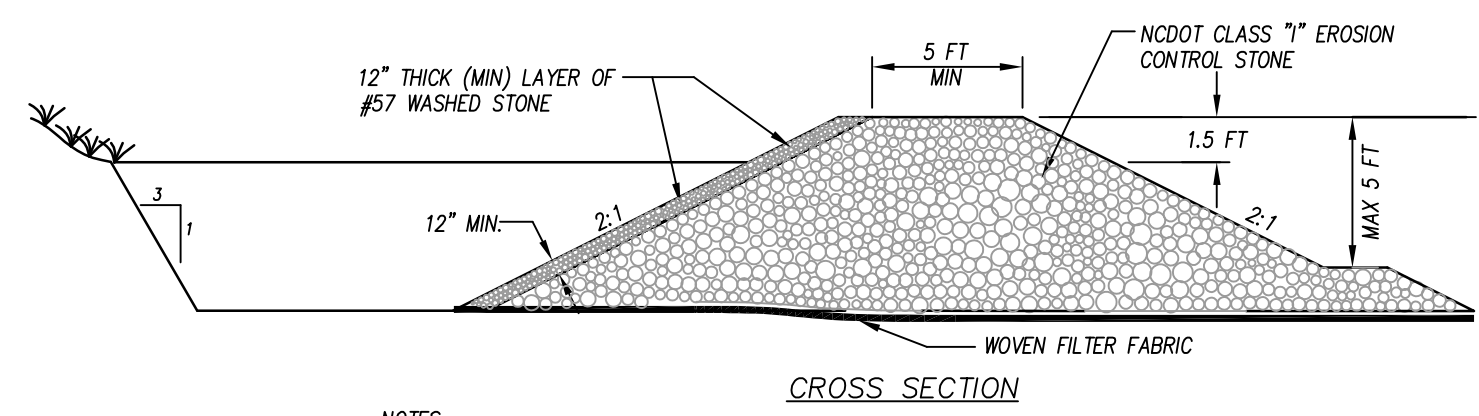
NAME: _____ DATE: _____

PLANNING: _____

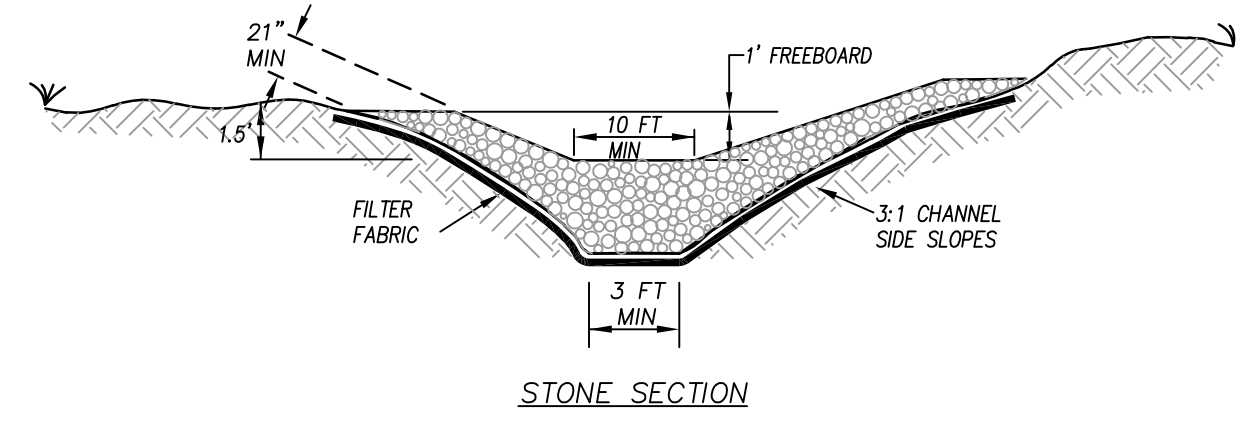
TRAFFIC: _____

FIRE: _____

City of WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



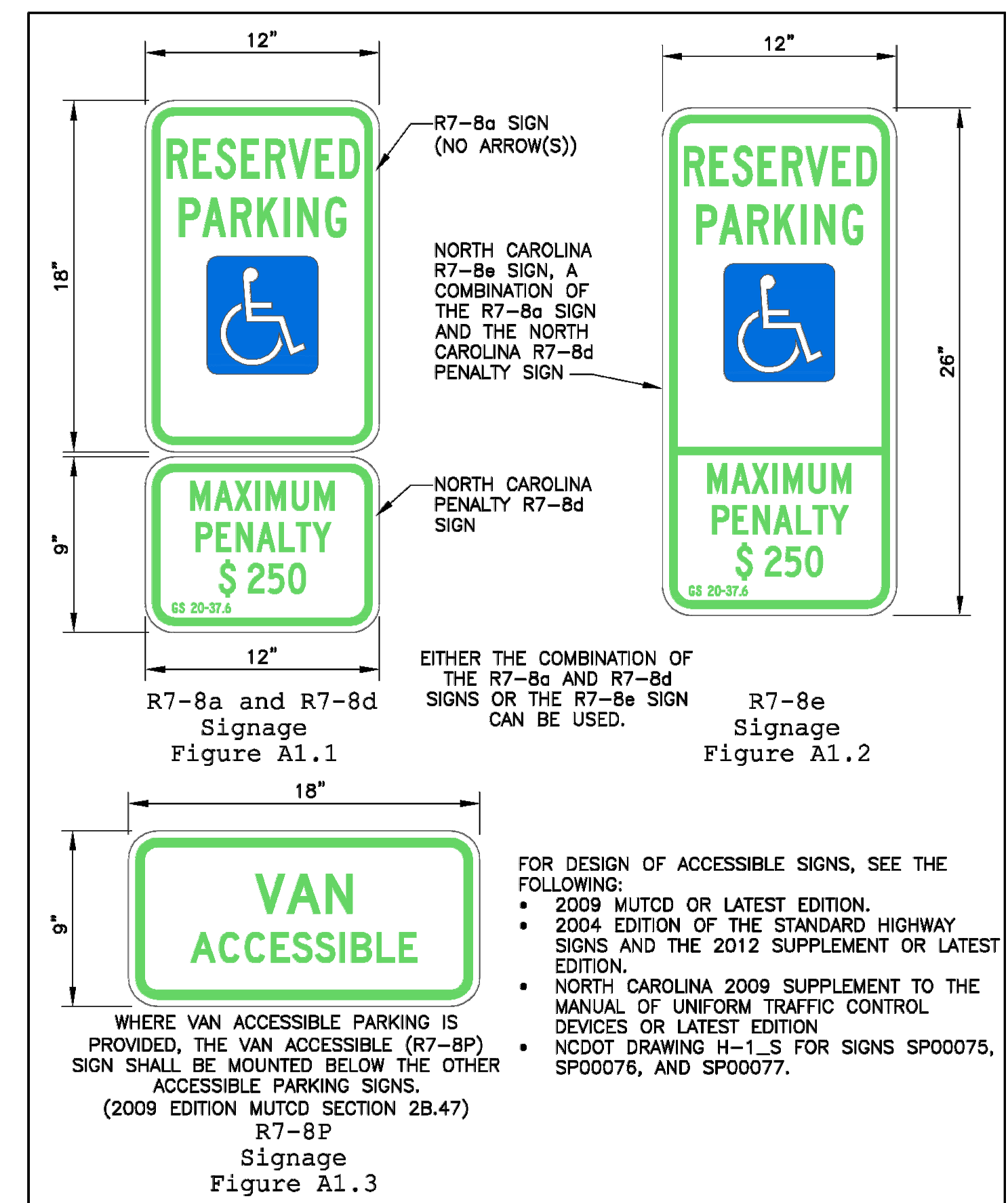
NOTES:
 1. CHANNEL SHALL BE STABILIZED W/ SEEDING ACCORDING TO NCDOT SPECIFICATIONS.
 2. USE CLEAN COMPACTOR FILL MATERIAL IF NEEDED.



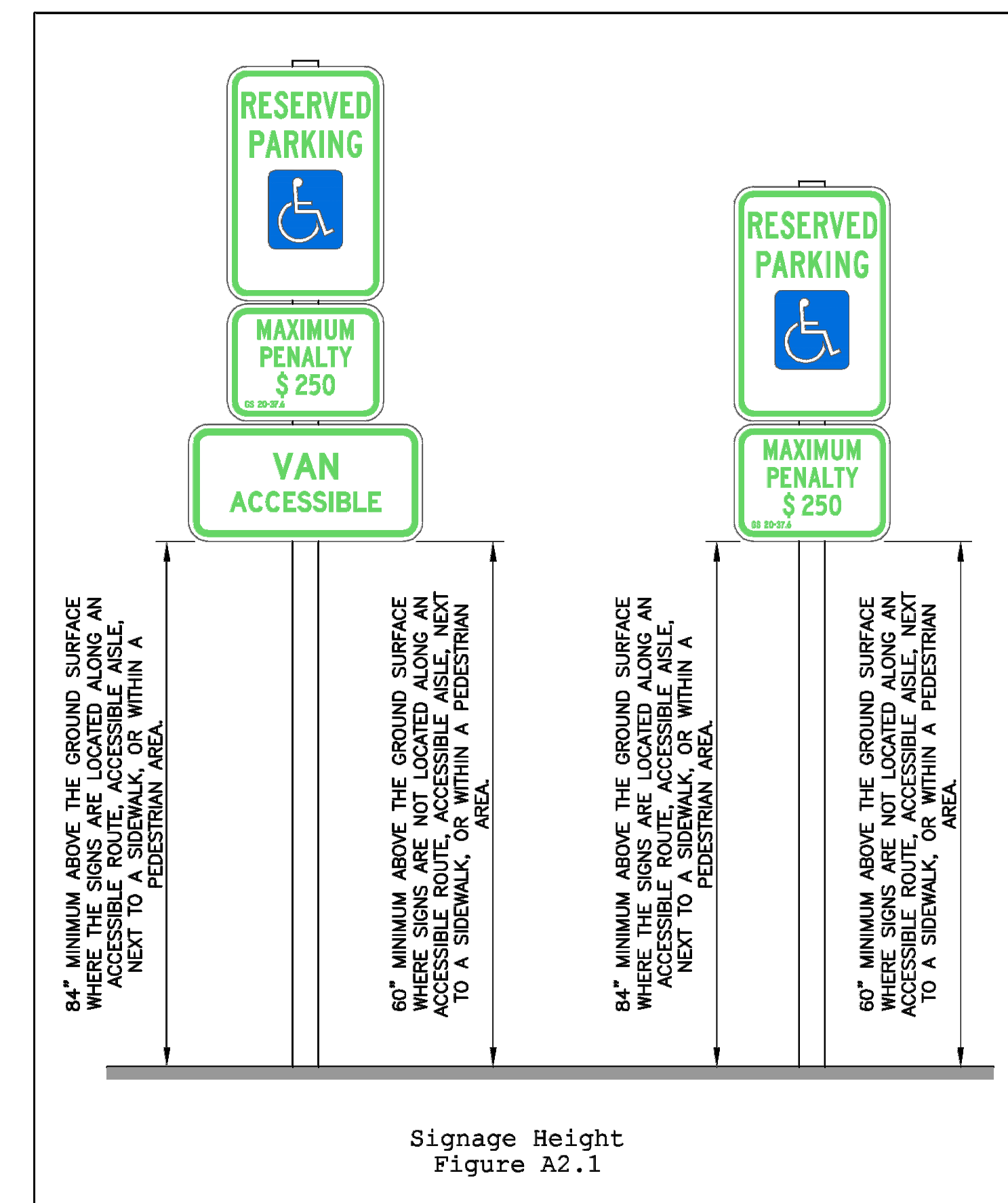
MAINTENANCE:
 1. INSPECT TEMPORARY ROCK FILTER AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE ROCK FILTER TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE SEDIMENT TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN A DESIGNATED DISPOSAL AREA. REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.
 2. CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE.
 3. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY. STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE ROCK FILTER IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

TEMPORARY ROCK FILTER

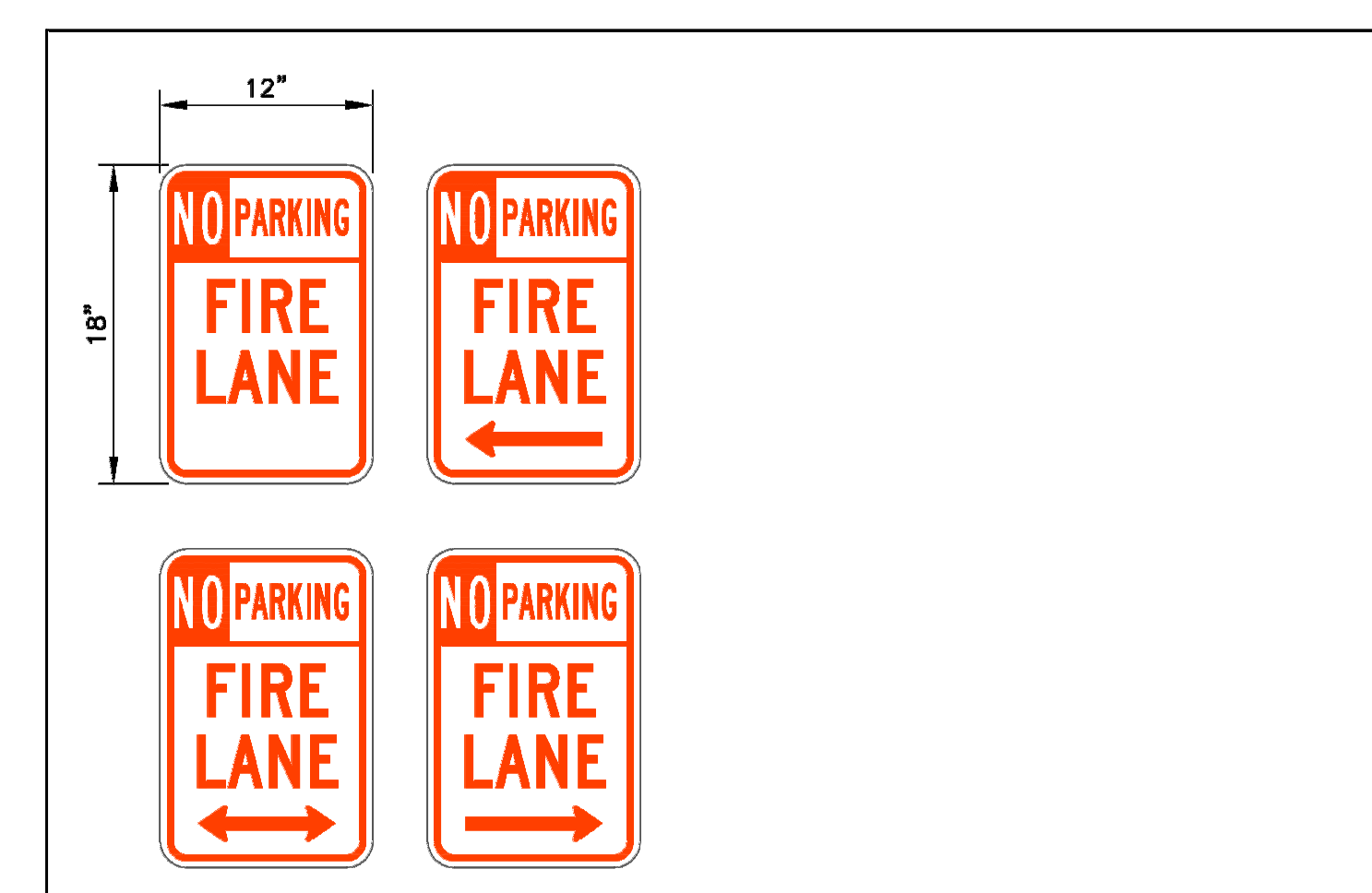
N.T.S.



DATE:	NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS	 P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7988
DRAWN BY:	DALE THOMPSON	SHEET A1 OF 5	
CHECKED BY:	RANDALL GLAZIER		
SCALE:	NOT TO SCALE		

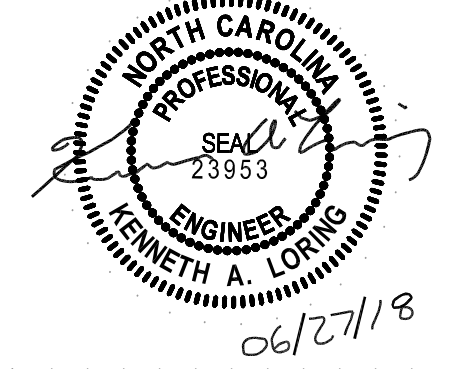


DATE:	NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS	 P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7988
DRAWN BY:	DALE THOMPSON	SHEET A2 OF 5	
CHECKED BY:	RANDALL GLAZIER		
SCALE:	NOT TO SCALE		



Fire Lane Signs
Figure F1.1

DATE:	NOVEMBER 8, 2016	FIRE LANE SIGNS	 P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7988
DRAWN BY:	DALE THOMPSON	SHEET F1 OF 1	
CHECKED BY:	RANDALL GLAZIER		
SCALE:	NOT TO SCALE		



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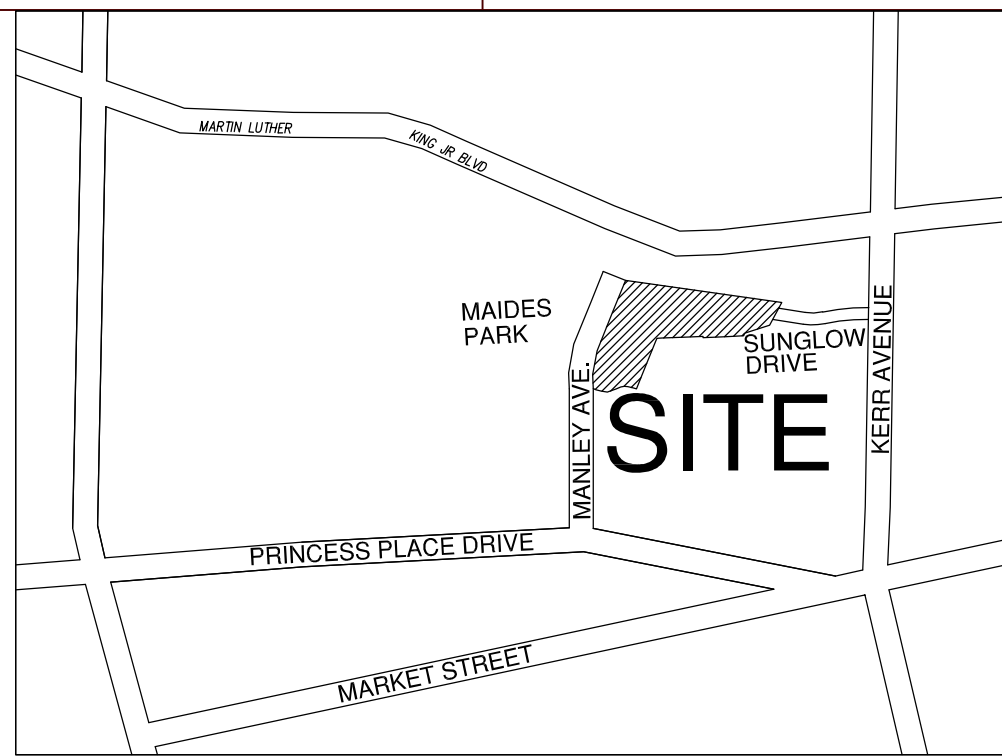
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REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
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D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
 DATE: JUNE 26, 2018
 DRAWN BY: ST, GSH, YLA, DL
 CHECKED BY: CLH, GSH, ZRP

SITE/CIVIL DETAILS



VICINITY MAP (N.T.S.)

The WMPO, NCDOT, and City of Wilmington staffs have reviewed the Glow Academy Development TIA dated February 8, 2018. This development consist of:

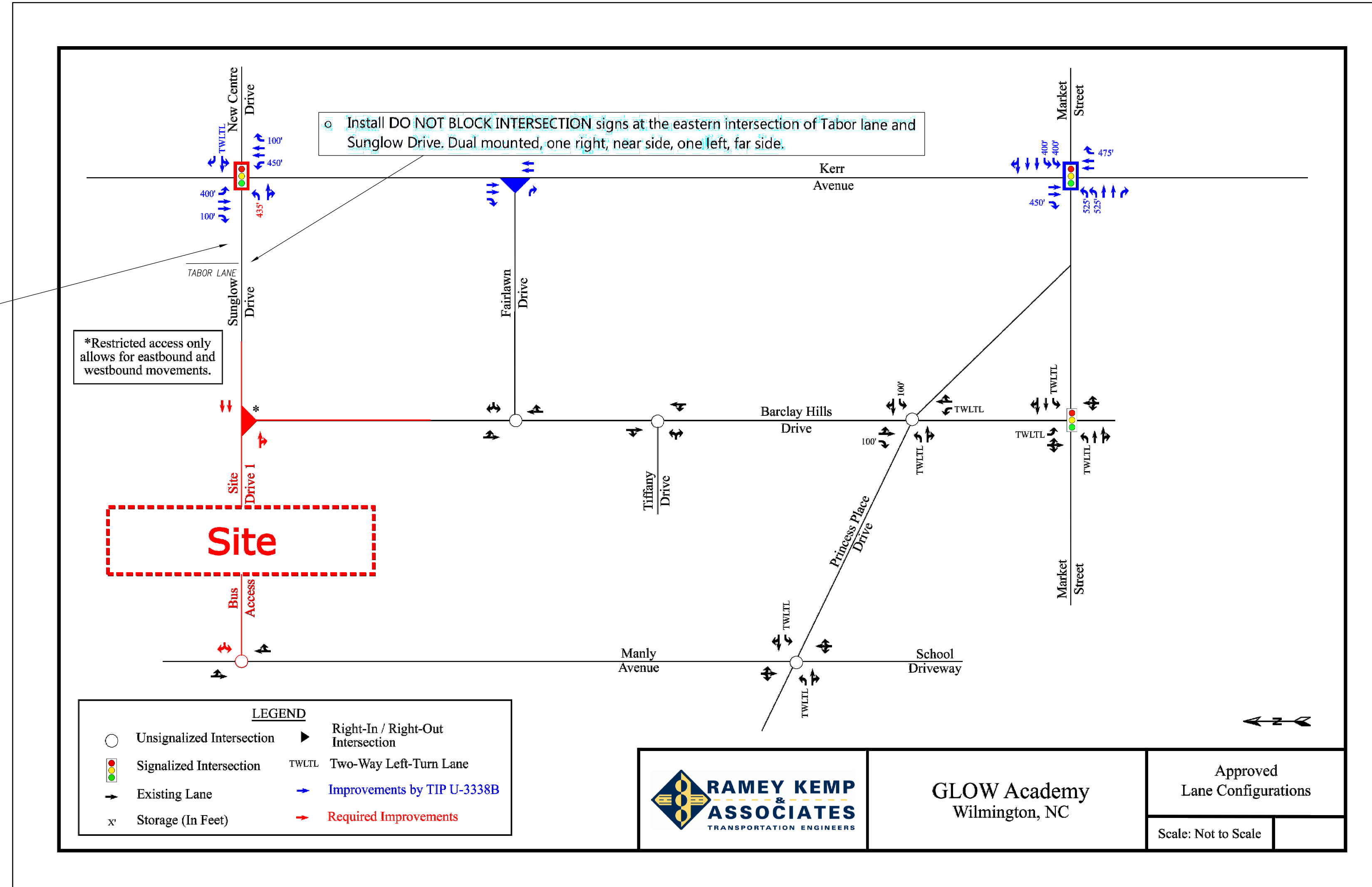
- 700 Student Charter School

The Build out year is 2019.

Based on review of the analysis provided in the TIA report, the following improvements are required by the developer:

N Kerr Avenue and Sunglow Drive

- Coordinate with NCDOT to Revise signal plans on U-3338
 - Install ϕ 7 protected left turn, 4 section flashing yellow arrow on Sunglow
 - Remove crosswalk and pedestrian heads on the north approach (ϕ 8 Ped)
- Coordinate with the City of Wilmington
 - Restripe Sunglow Drive from the proposed stopbar constructed as part of U-3338 westward 435' to an exclusive eastbound turn bay. Install appropriate taper and island to tie to the existing centerline
 - Revise New Center to a shared through and left turn lane with exclusive right turn lane if NCDOT has not already done so as part of U-3338
 - Install DO NOT BLOCK INTERSECTION signs at the eastern intersection of Tabor lane and Sunglow Drive. Dual mounted, one right, near side, one left, far side.





RAMEY KEMP ASSOCIATES
TRANSPORTATION ENGINEERS

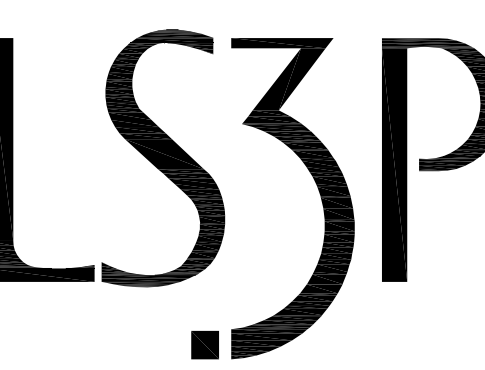
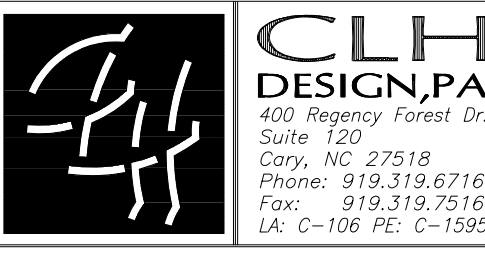
GLOW Academy
Wilmington, NC

Approved
Lane Configurations

Scale: Not to Scale



NEW SCHOOL BUILDING



227 WEST TRADE STREET SUITE 700
CHARLOTTE, NORTH CAROLINA 28202
TEL. 704.333.6686 FAX 704.333.2926
WWW.LS3P.COM

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REVISIONS:


No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

TIA REQUIREMENTS

TIA-101

APPROVED CONSTRUCTION PLAN	
NAME _____	DATE _____
PLANNING _____	
TRAFFIC _____	
FIRE _____	



Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

REVISIONS:

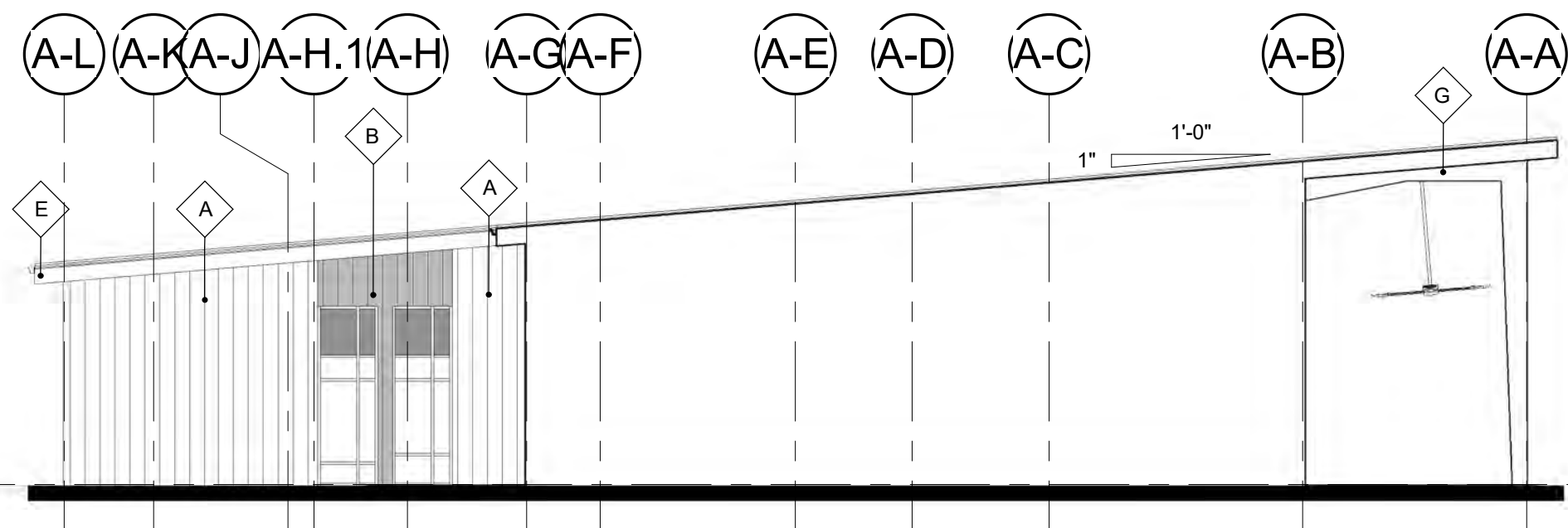
No.	Description	Date
A	Permit Set	04/24/2018

PROJECT: 7201-169350
DATE: April 24, 2018
DRAWN BY: DCA
CHECKED BY: CHB, LLM

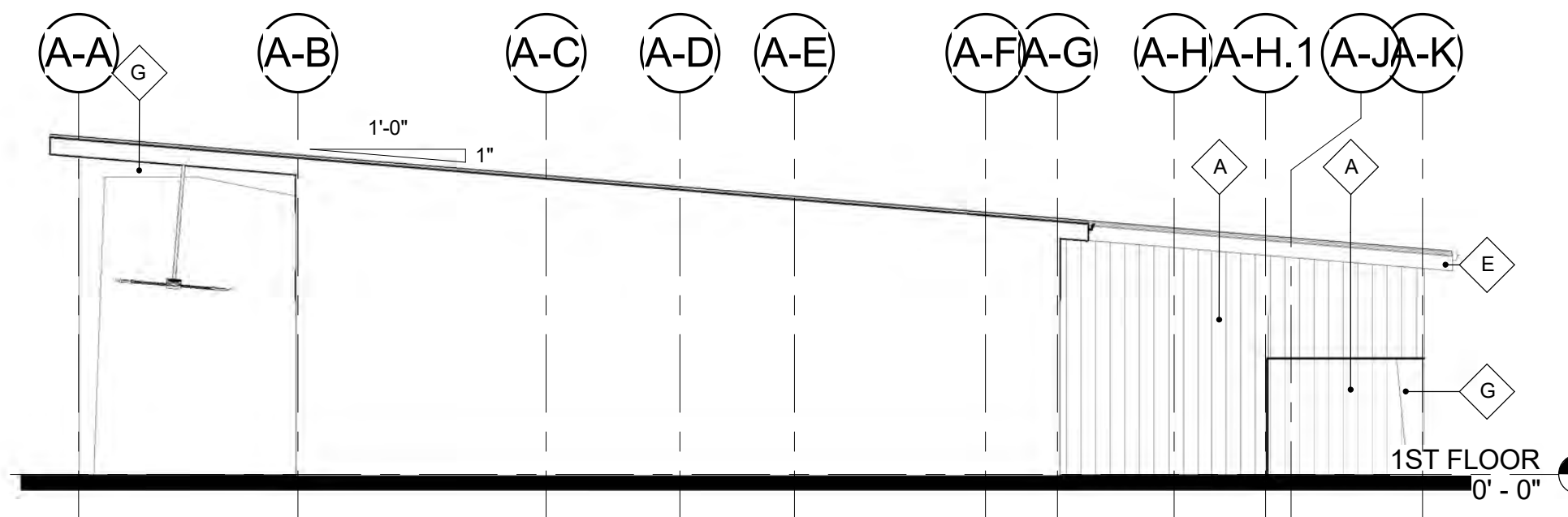
BUILDING ELEVATIONS - ADMIN/CAFETERIA (BUILDING 1)
A-201T

EXTERIOR FINISH LEGEND

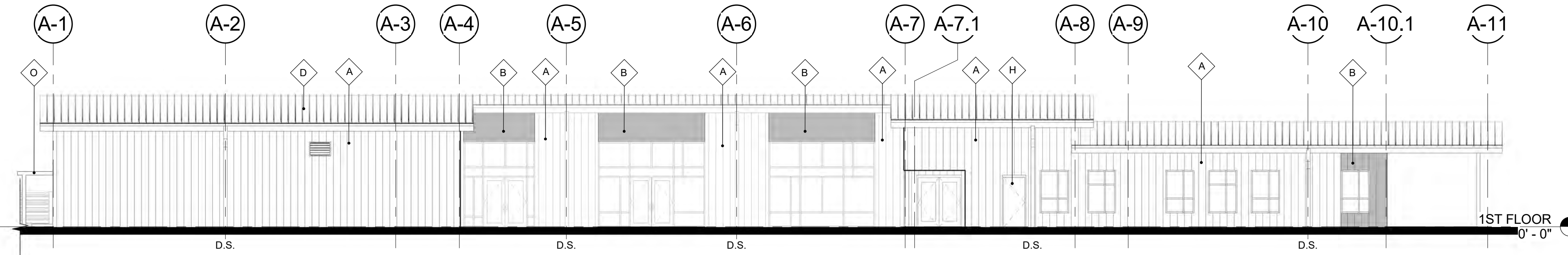
- A METAL WALL SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- B METAL WALL SYSTEM - PAINTED IN FIELD, INVIGORATE SW 6886
- C METAL WALL SYSTEM - PAINTED IN FIELD, CYBERSPACE SW 7076
- D METAL ROOF SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- E METAL SOFFIT SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- F HOLLOW METAL DOOR - PAINTED, INVIGORATE SW 6886
- G METAL FRAME - FACTORY FINISHED, COLOR WARM GRAY (MG)
- H HOLLOW METAL DOOR AND FRAME, COLOR TO MATCH METAL PANEL
- J CHALKBOARD PAINT ON PLYWOOD
- K SIGNAGE, COLOR TBD
- L WOOD FENCE AND METAL POST
- M STEEL BEAM AND COLUMN, COLOR WARM GRAY
- N DOWNSPOUT - FACTORY FINISHED, COLOR WARM GRAY
- P CONCRETE SEAT WALL - STUCCO FINISH, COLOR TO MATCH METAL PANEL
- O PRE-ENGINEERED CANOPY - COLOR TBD



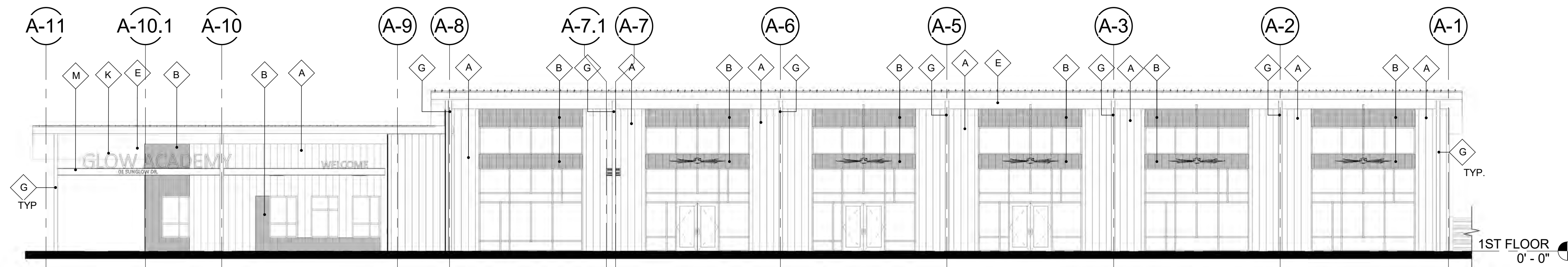
5 BUILDING ELEVATION - ADMIN SOUTH (PARTIAL)
3/32" = 1'-0"



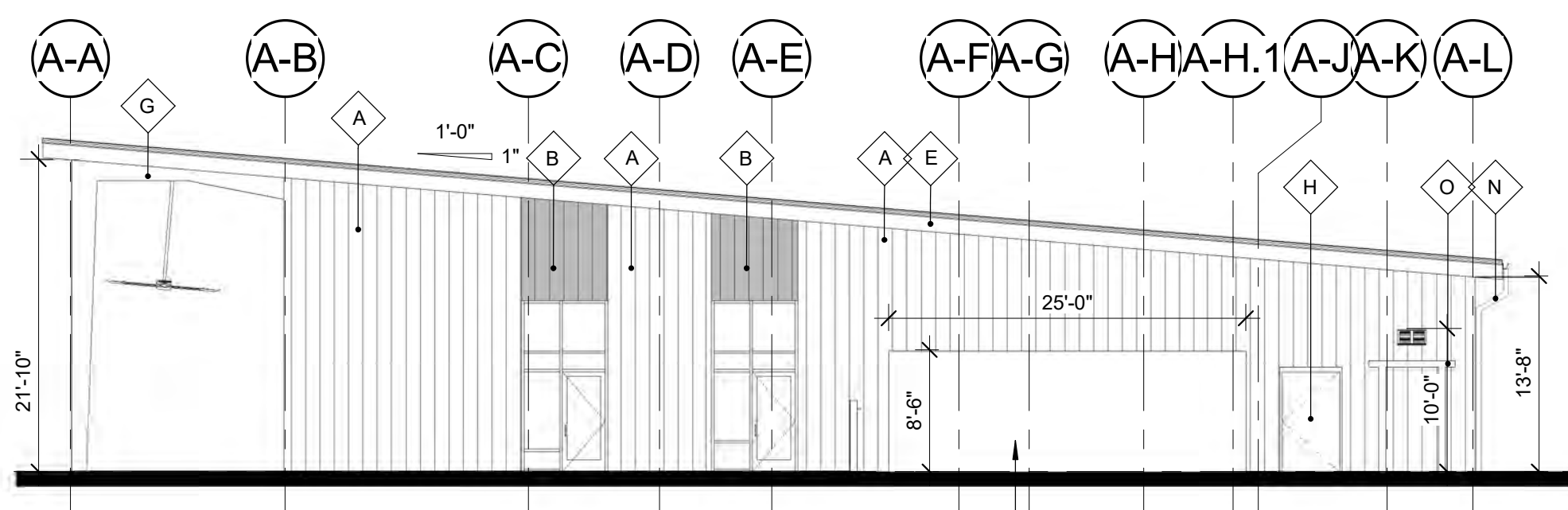
6 BUILDING ELEVATION - ADMIN NORTH (PARTIAL)
3/32" = 1'-0"



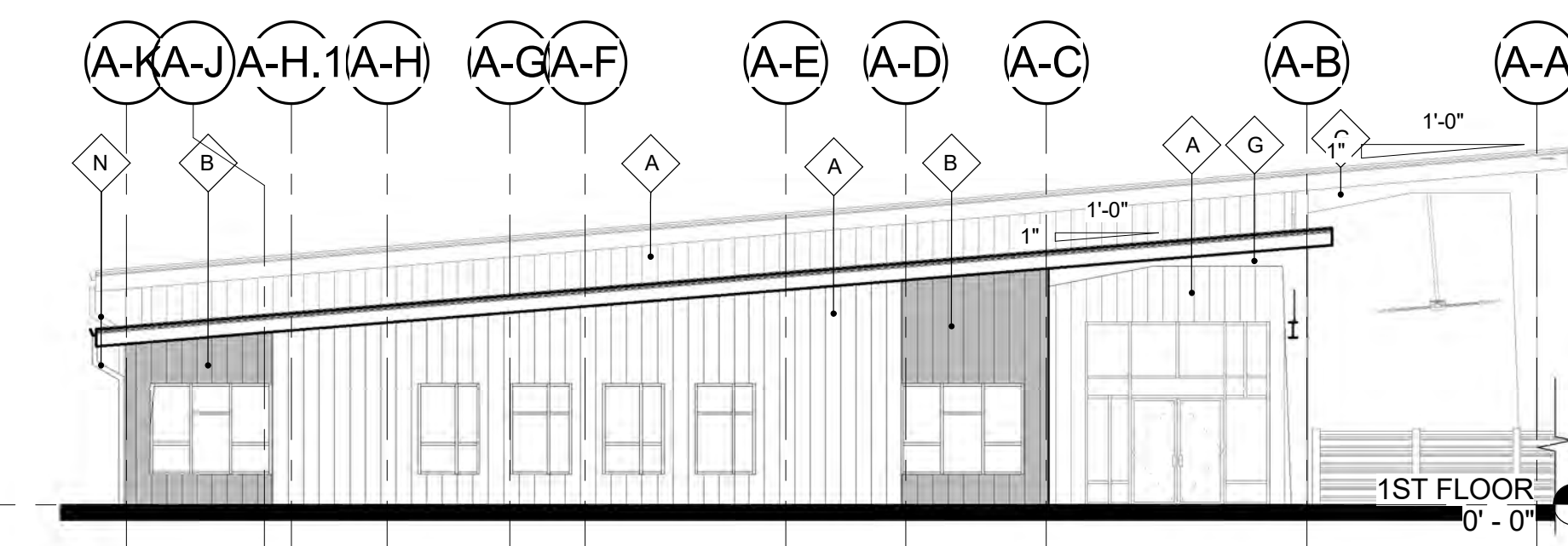
3 BUILDING ELEVATION - ADMIN WEST
3/32" = 1'-0"



2 BUILDING ELEVATION - ADMIN EAST
3/32" = 1'-0"



1 BUILDING ELEVATION - ADMIN NORTH
3/32" = 1'-0"



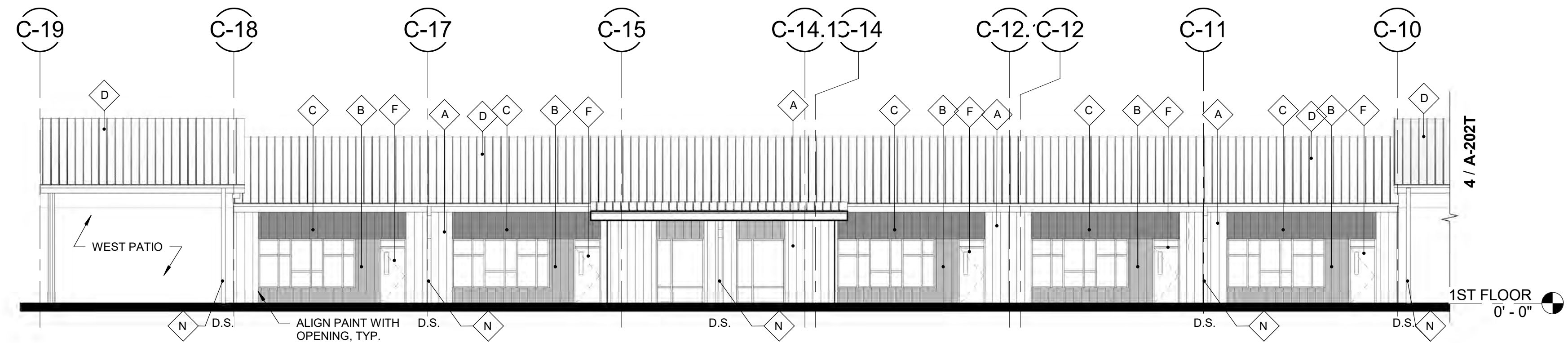
4 BUILDING ELEVATION - ADMIN SOUTH
3/32" = 1'-0"

APPROVED CONSTRUCTION PLAN

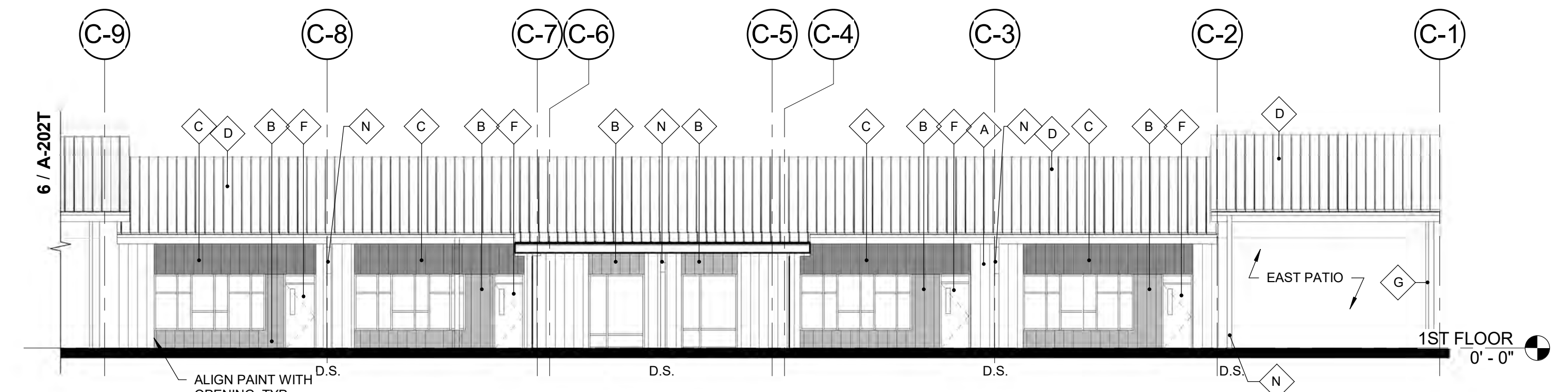
NAME	DATE
PLANNING _____	
TRAFFIC _____	
FIRE _____	

EXTERIOR FINISH LEGEND

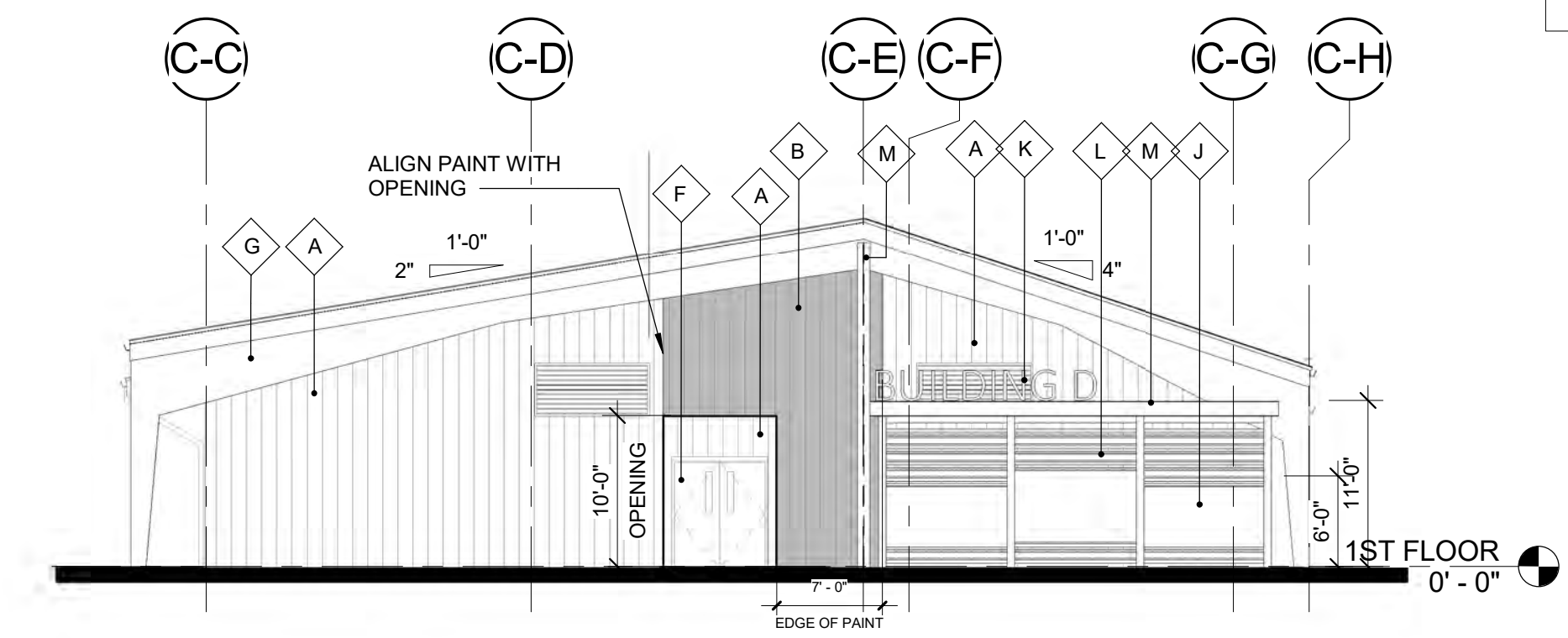
- A METAL WALL SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- B METAL WALL SYSTEM - PAINTED IN FIELD, INVIGORATE SW 6886
- C METAL WALL SYSTEM - PAINTED IN FIELD, CYBERSPACE SW 7076
- D METAL ROOF SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- E METAL SOFFIT SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- F HOLLOW METAL DOOR - PAINTED, INVIGORATE SW 6886
- G METAL FRAME - FACTORY FINISHED, COLOR WARM GRAY (MG)
- H HOLLOW METAL DOOR AND FRAME, COLOR TO MATCH METAL PANEL
- J CHALKBOARD PAINT ON PLYWOOD
- K SIGNAGE, COLOR TBD
- L WOOD FENCE AND METAL POST
- M STEEL BEAM AND COLUMN, COLOR WARM GRAY
- N DOWNSPOUT - FACTORY FINISHED, COLOR WARM GRAY
- P CONCRETE SEAT WALL - STUCCO FINISH, COLOR TO MATCH METAL PANEL
- Q PRE-ENGINEERED CANOPY - COLOR TBD



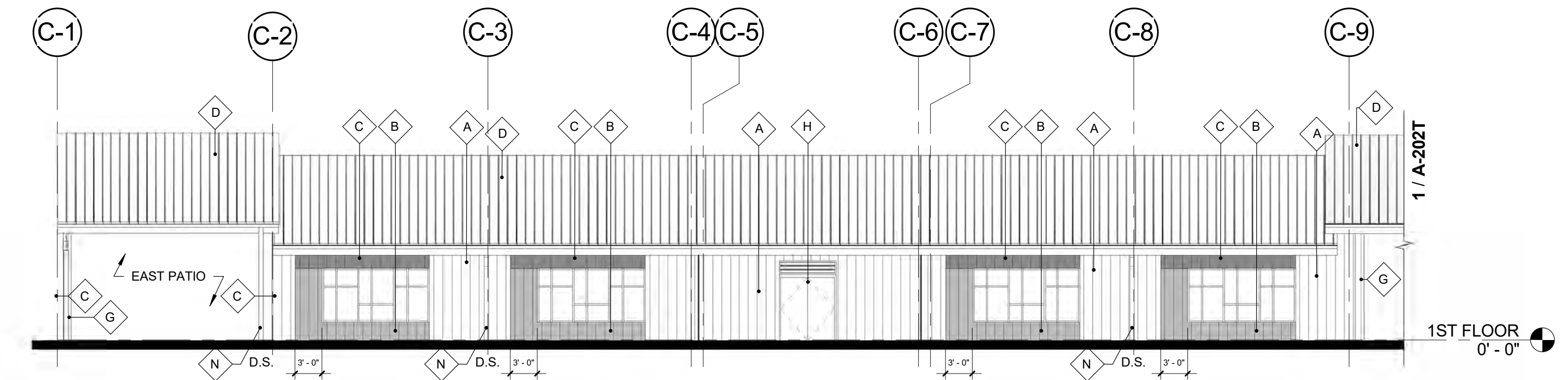
6 BUILDING ELEVATION - MIDDLES SCHOOL AREA A
3/32" = 1'-0"



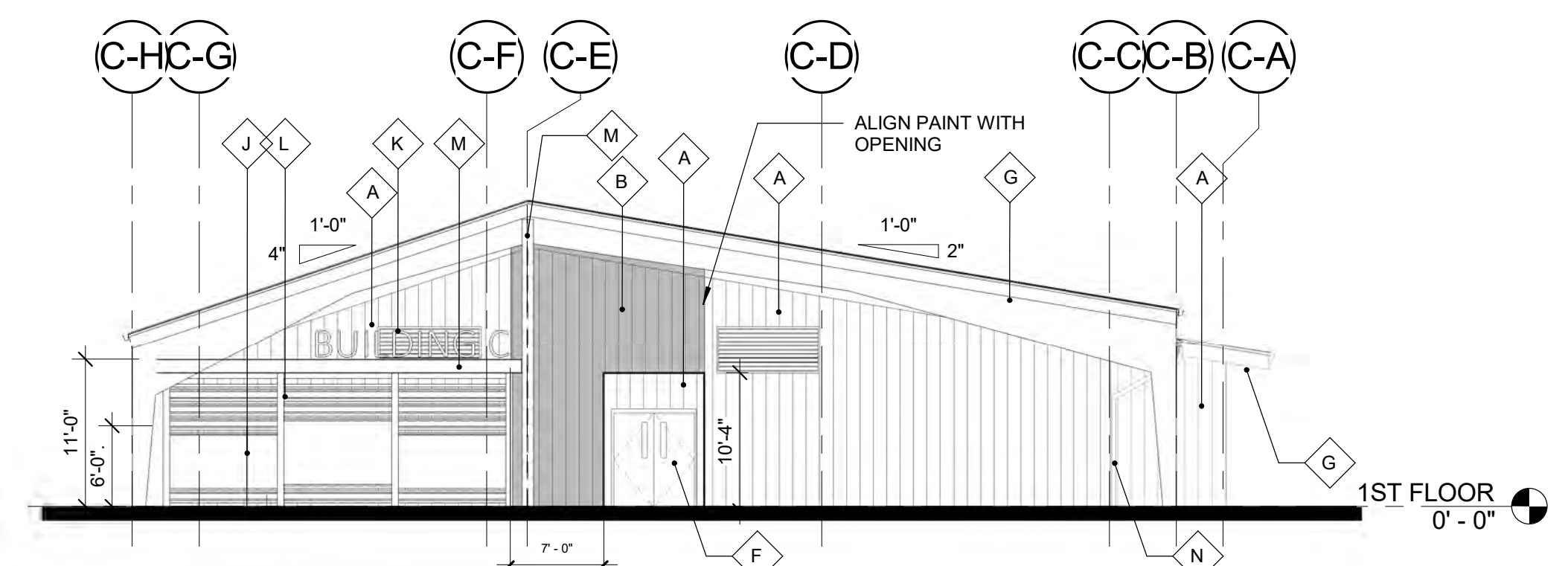
4 BUILDING ELEVATION - MIDDLE SCHOOL SOUTH AREA B
3/32" = 1'-0"



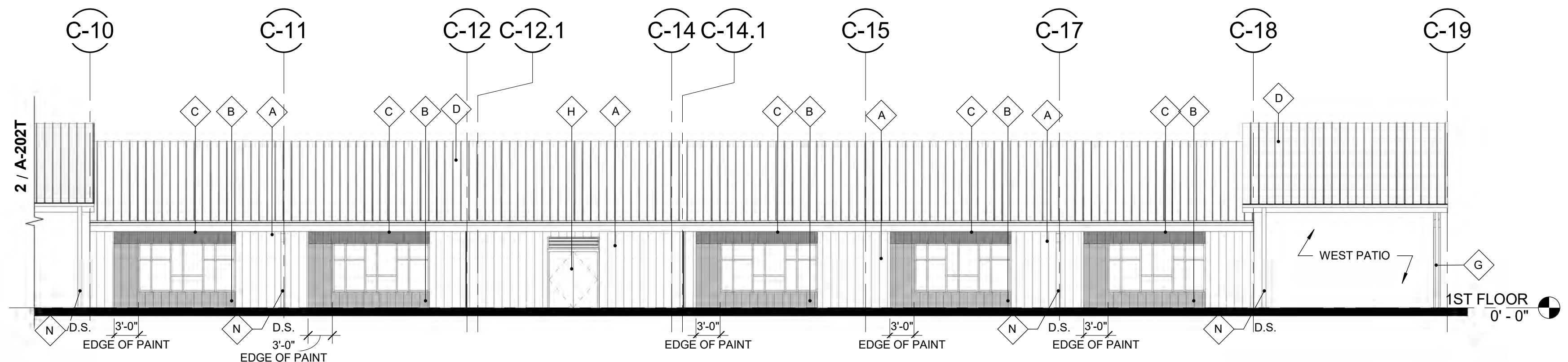
5 BUILDING ELEVATION - MIDDLE SCHOOL EAST
3/32" = 1'-0"



2 BUILDING ELEVATION - MIDDLE SCHOOL NORTH AREA B
3/32" = 1'-0"



3 BUILDING ELEVATION - MIDDLE SCHOOL WEST
3/32" = 1'-0"

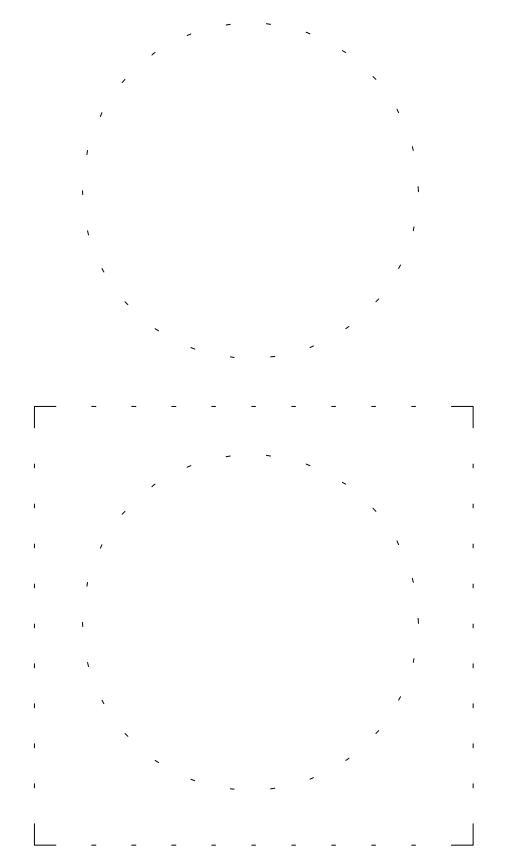


1 BUILDING ELEVATION - MIDDLE SCHOOL NORTH AREA A
3/32" = 1'-0"

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

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REVISIONS:

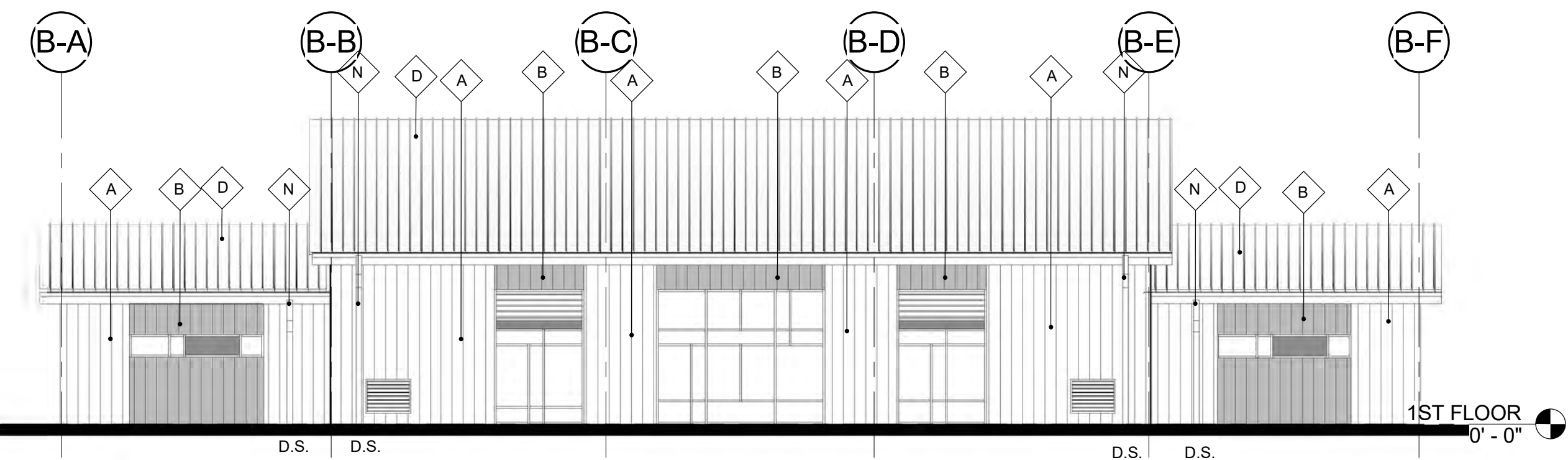
No.	Description	Date

PROJECT: 7201-169350
DATE: April 24, 2018
DRAWN BY: DCA
CHECKED BY: CHB, LLM

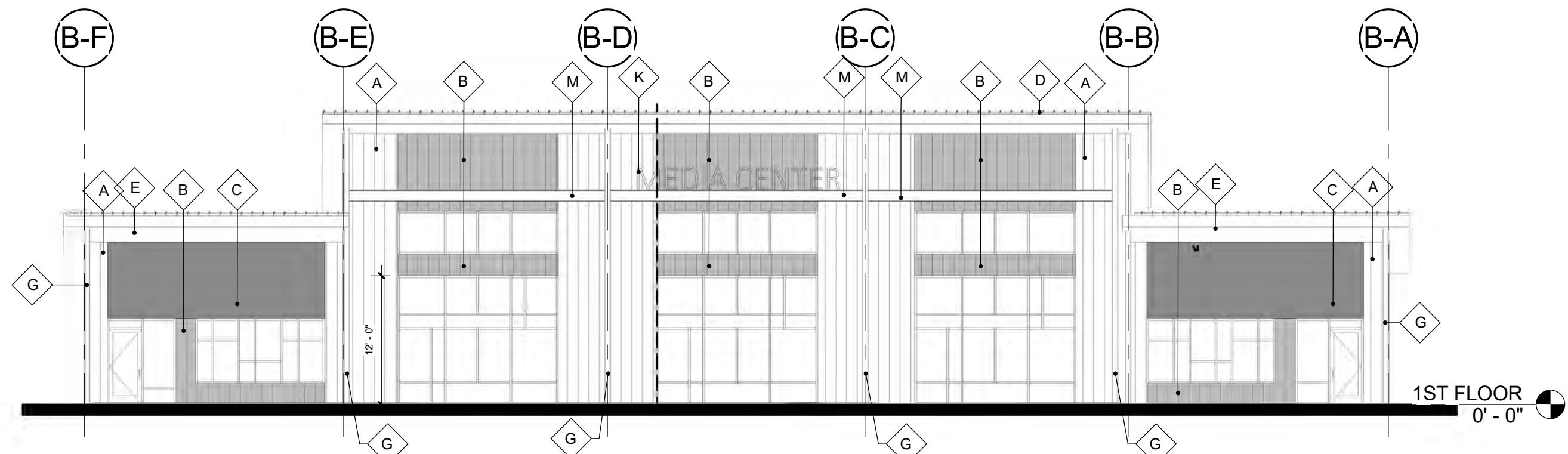
**BUILDING
ELEVATIONS -
MEDIA BLDNG
(BUILDING 3)**
A-203T

EXTERIOR FINISH LEGEND

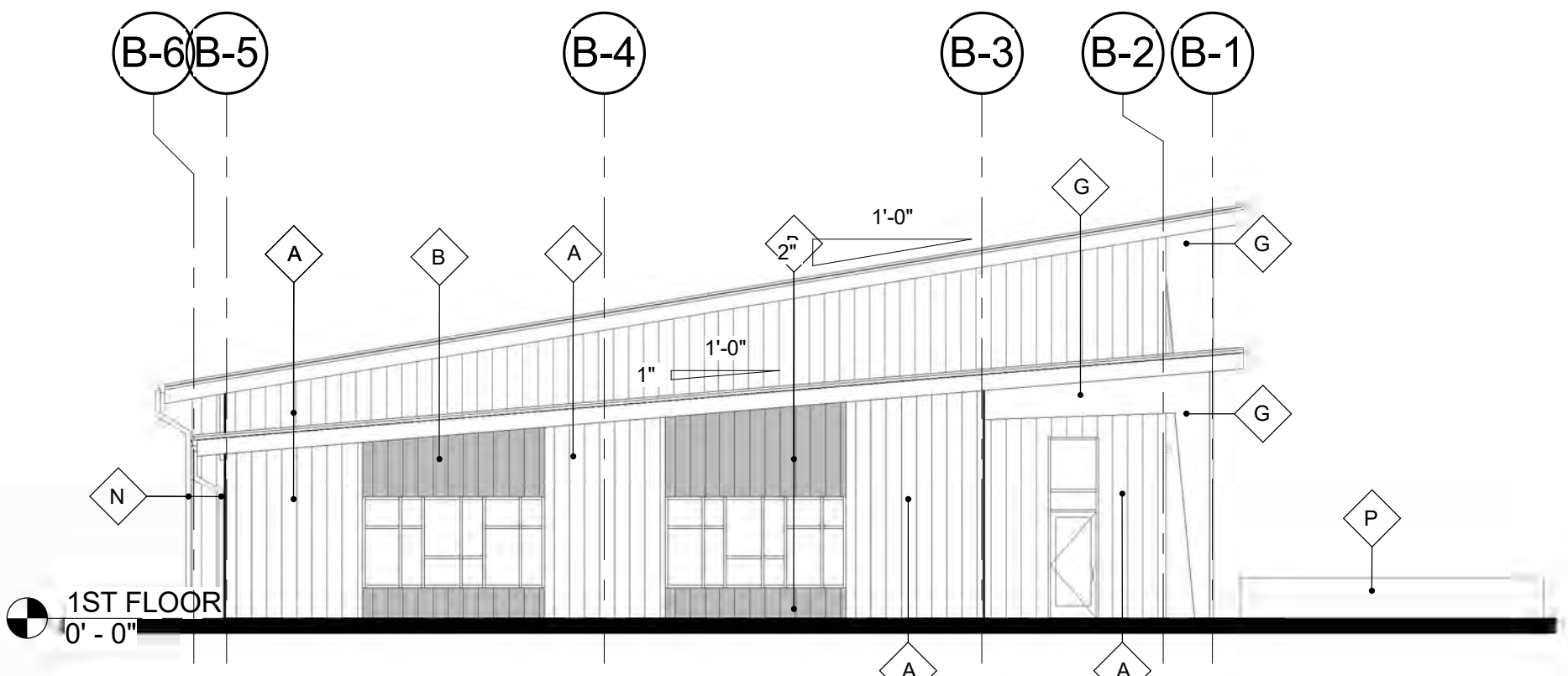
- A METAL WALL SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- B METAL WALL SYSTEM - PAINTED IN FIELD, INVIGORATE SW 6886
- C METAL WALL SYSTEM - PAINTED IN FIELD, CYBERSPACE SW 7076
- D METAL ROOF SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- E METAL SOFFIT SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- F HOLLOW METAL DOOR - PAINTED, INVIGORATE SW 6886
- G METAL FRAME - FACTORY FINISHED, COLOR WARM GRAY (MG)
- H HOLLOW METAL DOOR AND FRAME, COLOR TO MATCH METAL PANEL
- J CHALKBOARD PAINT ON PLYWOOD
- K SIGNAGE, COLOR TBD
- L WOOD FENCE AND METAL POST
- M STEEL BEAM AND COLUMN, COLOR WARM GRAY
- N DOWNSPOUT - FACTORY FINISHED, COLOR WARM GRAY
- P CONCRETE SEAT WALL - STUCCO FINISH, COLOR TO MATCH METAL PANEL
- O PRE-ENGINEERED CANOPY - COLOR TBD



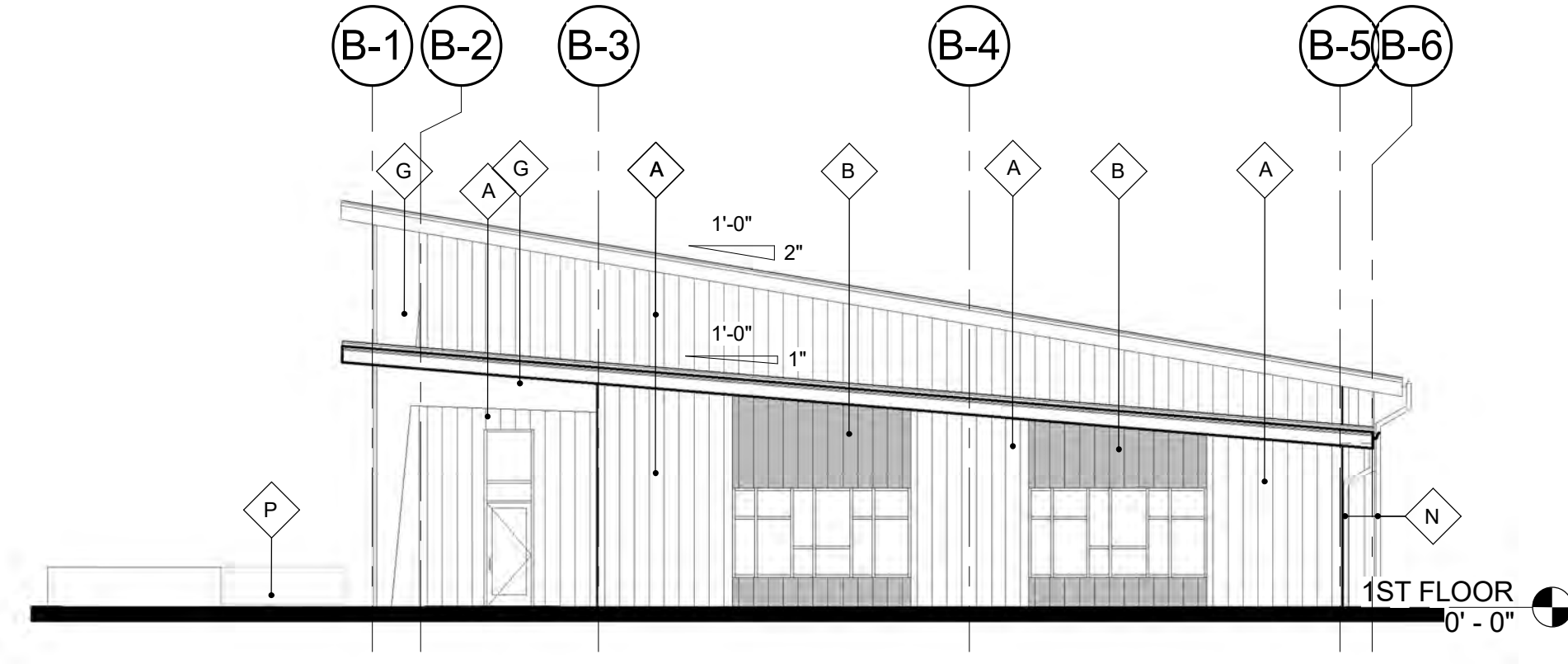
4 BUILDING ELEVATION - MEDIA CENTER EAST
3/32" = 1'-0"



3 BUILDING ELEVATION - MEDIA CENTER WEST
3/32" = 1'-0"



1 BUILDING ELEVATION - MEDIA CENTER NORTH
3/32" = 1'-0"



2 BUILDING ELEVATION - MEDIA CENTER SOUTH
3/32" = 1'-0"

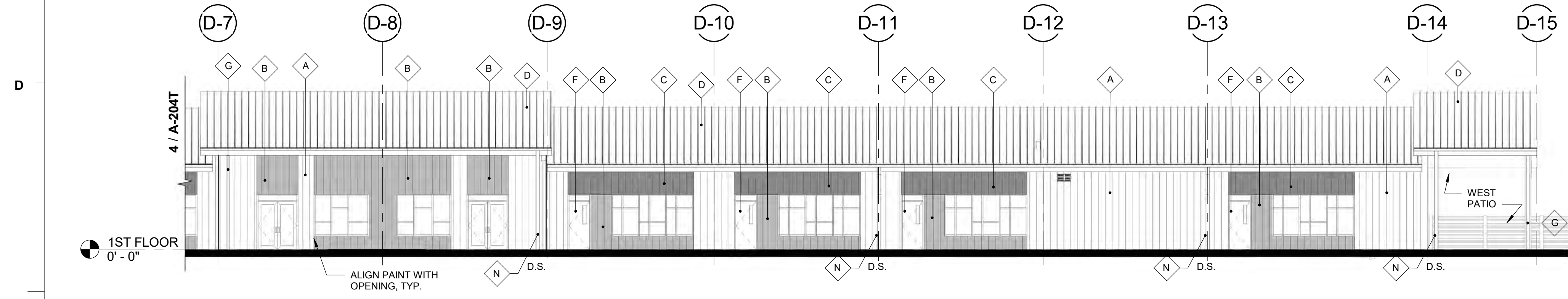
APPROVED CONSTRUCTION PLAN

NAME	DATE
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TRAFFIC _____	_____
FIRE _____	_____

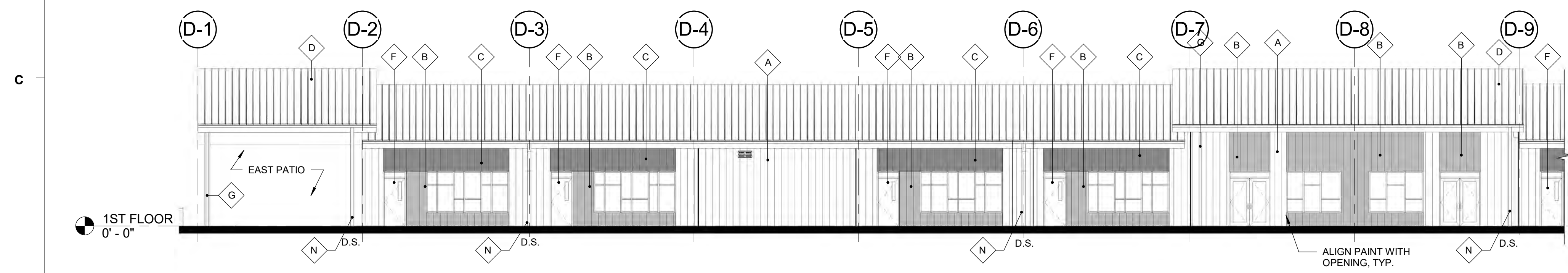
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EXTERIOR FINISH LEGEND

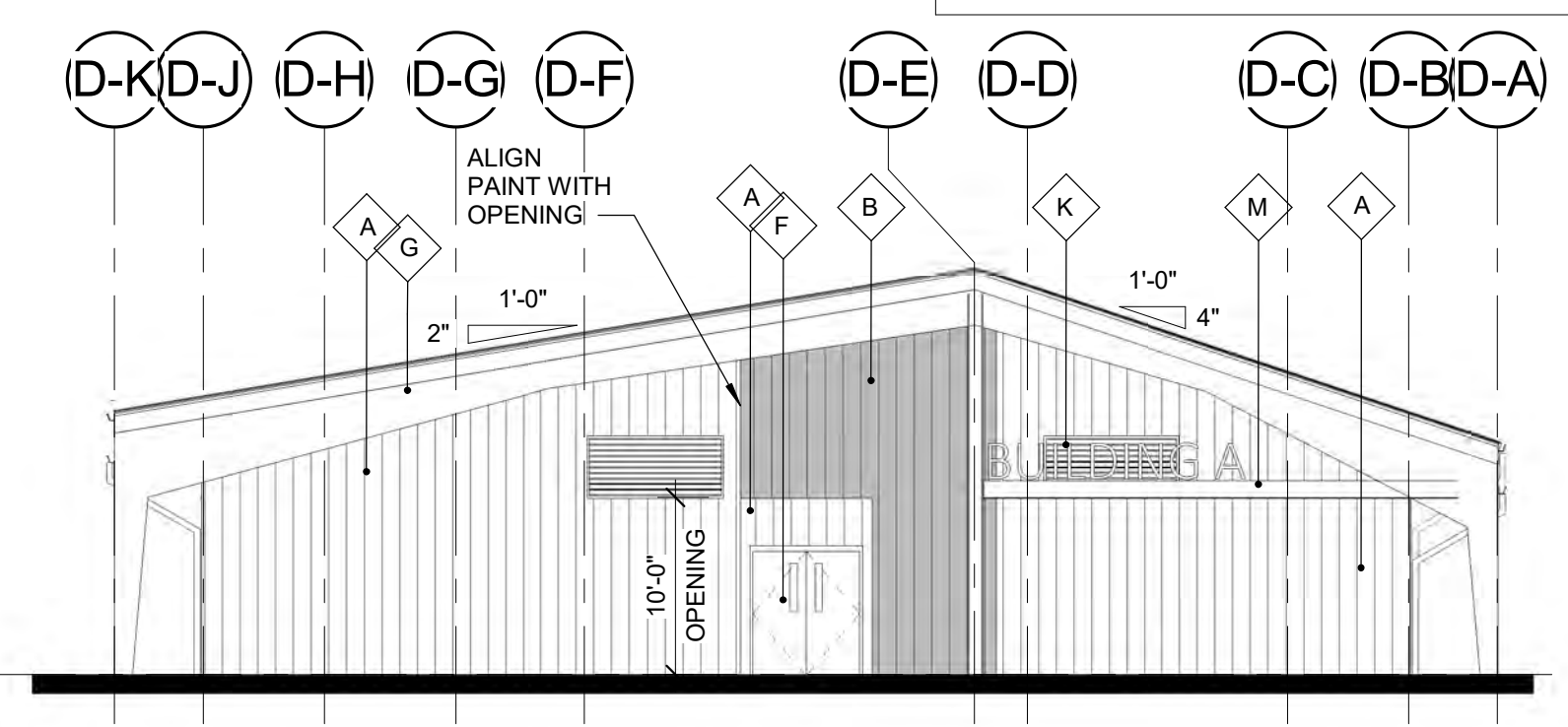
- A METAL WALL SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- B METAL WALL SYSTEM - PAINTED IN FIELD, INVIGORATE SW 6886
- C METAL WALL SYSTEM - PAINTED IN FIELD, CYBERSPACE SW 7076
- D METAL ROOF SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- E METAL SOFFIT SYSTEM - FACTORY FINISHED, COLOR WARM GRAY (MG)
- F HOLLOW METAL DOOR - PAINTED, INVIGORATE SW 6886
- G METAL FRAME - FACTORY FINISHED, COLOR WARM GRAY (MG)
- H HOLLOW METAL DOOR AND FRAME, COLOR TO MATCH METAL PANEL
- J CHALKBOARD PAINT ON PLYWOOD
- K SIGNAGE, COLOR TBD
- L WOOD FENCE AND METAL POST
- M STEEL BEAM AND COLUMN, COLOR WARM GRAY
- N DOWNSPOUT - FACTORY FINISHED, COLOR WARM GRAY
- P CONCRETE SEAT WALL - STUCCO FINISH, COLOR TO MATCH METAL PANEL
- O PRE-ENGINEERED CANOPY - COLOR TBD



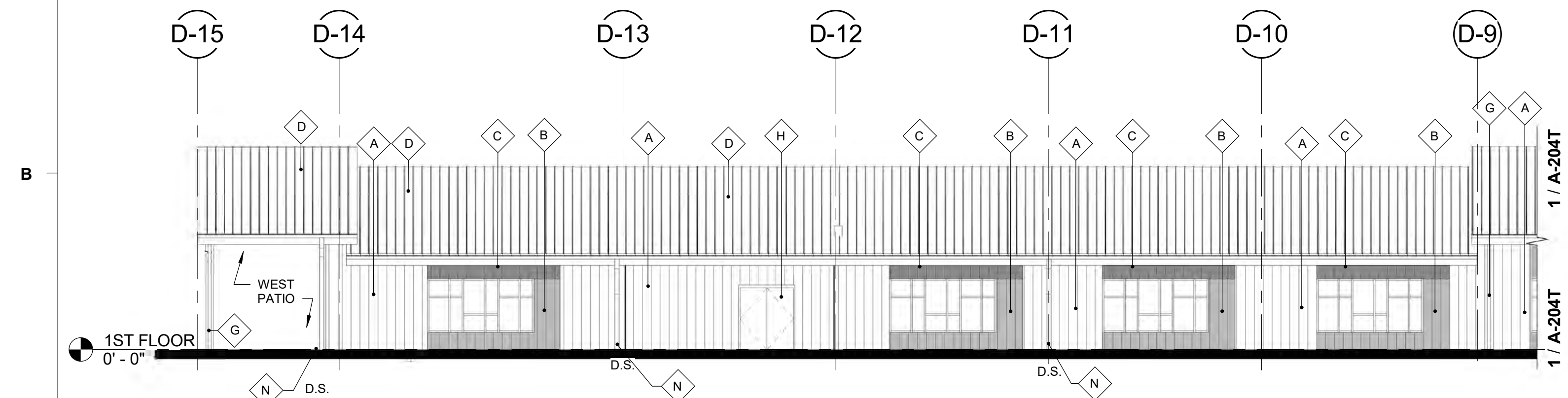
6 BUILDING ELEVATION - HS NORTH AREA C
3/32" = 1'-0"



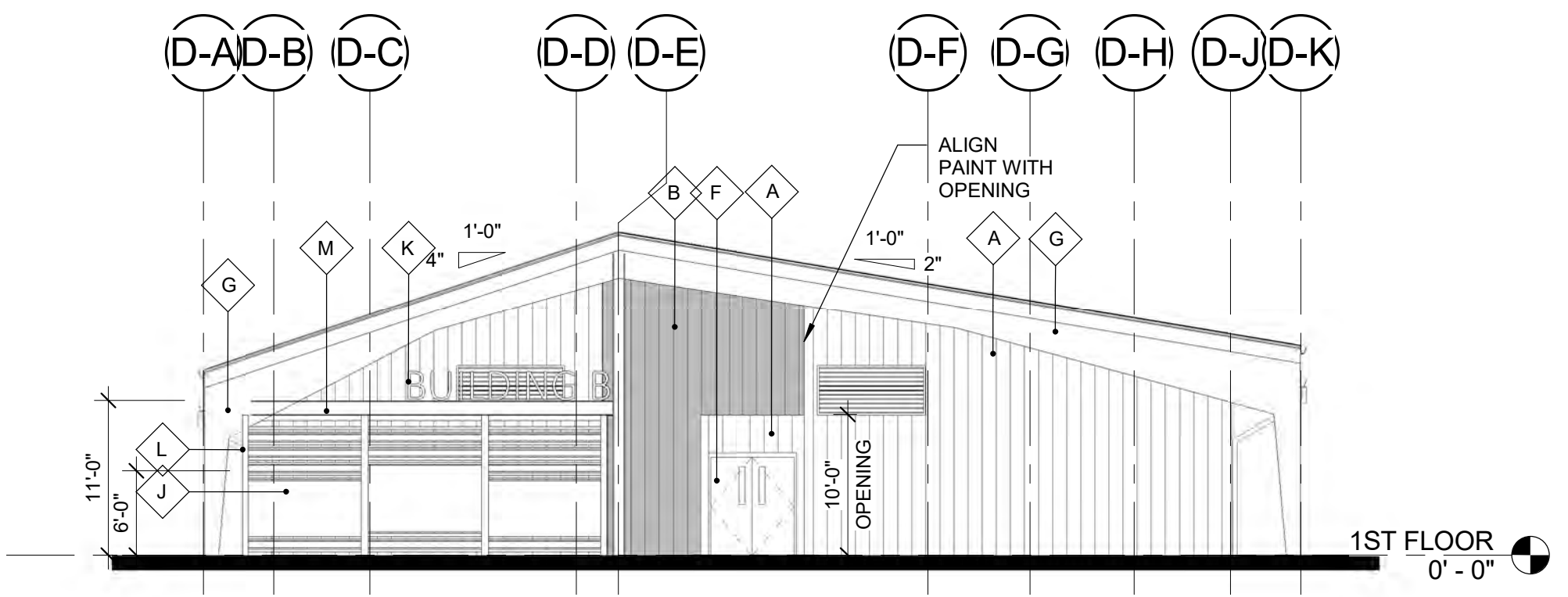
4 BUILDING ELEVATION - HS NORTH AREA D
3/32" = 1'-0"



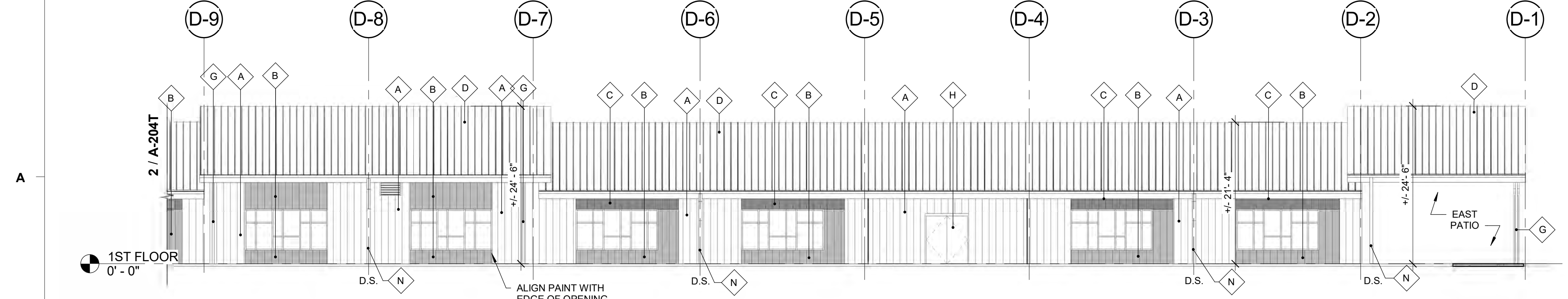
5 BUILDING ELEVATION - HS WEST
3/32" = 1'-0"



2 BUILDING ELEVATION - HS SOUTH AREA C
3/32" = 1'-0"



3 BUILDING ELEVATION - HS EAST
3/32" = 1'-0"



1 BUILDING ELEVATION - HS SOUTH AREA D
3/32" = 1'-0"

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____