

DORTON PARK RENOVATIONS VOL. 1

CONCORD, NC

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 Email: ccurlin@shultzeg.com



VICINITY MAP (NOT TO SCALE)

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
 (7) 803.981.4330
 www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: NTS
 DATE: 5-4-23
 SHEET NAME:
 COVER
 SHEET NO:
 001

LEGEND

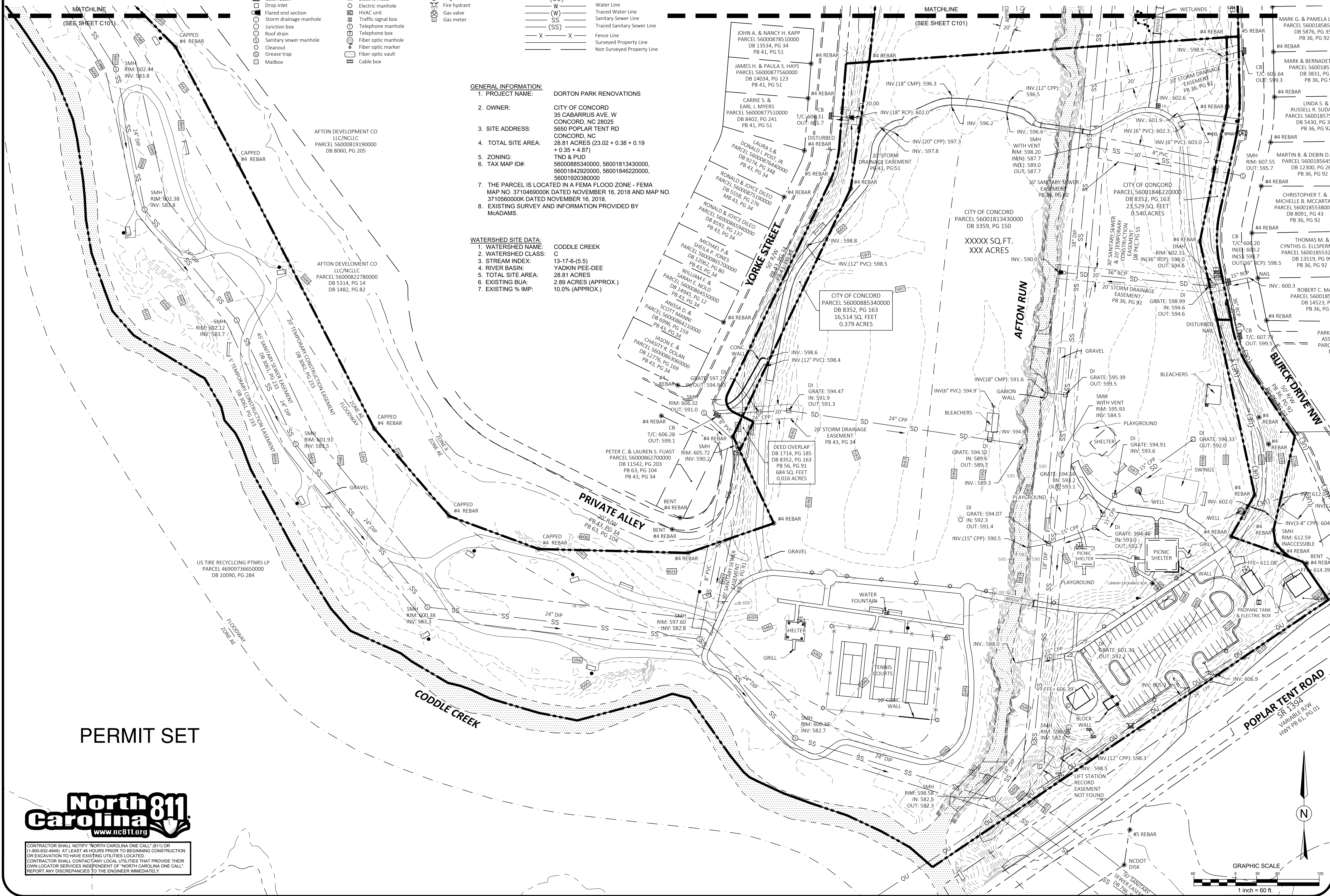
- | | | | |
|--------------------------|-----------------------|----------------------------|--------------------------------|
| ● Found property corner | ⊠ Electric vault | — Water line marker | — Tree Line |
| ○ Concrete monument | ⊠ Electric box | — Water valve | — Railroad Tracks |
| ▲ Set property corner | ⊠ Transformer | — Backflow preventer | — Guard Rail |
| △ Calculated corner | ⊠ Power pole | — Water vault | — Storm Drain |
| △ Point of localization | ⊠ Guy anchor | — Water manhole | — Traced Storm Drain |
| ⊠ Catch basin | ⊠ Light pole | — Irrigation control valve | — Overhead Utility Line |
| ⊠ Drop inlet | ⊠ Electric meter | — Fire hydrant | — Traced Overhead Utility Line |
| ⊠ Flared end section | ⊠ Electric manhole | — Gas valve | — Water Line |
| ⊠ Storm drainage manhole | ⊠ HVAC unit | — Gas meter | — Traced Water Line |
| ⊠ Junction box | ⊠ Traffic signal box | | — Sanitary Sewer Line |
| ⊠ Roof drain | ⊠ Telephone manhole | | — Traced Sanitary Sewer Line |
| ⊠ Sanitary sewer manhole | ⊠ Fiber optic manhole | | — Fence Line |
| ⊠ Cleanup | ⊠ Fiber optic marker | | — Surveyed Property Line |
| ⊠ Grease trap | ⊠ Fiber optic vault | | — Non Surveyed Property Line |
| ⊠ Mailbox | ⊠ Cable box | | |

GENERAL INFORMATION:

- PROJECT NAME:** DORTON PARK RENOVATIONS
- OWNER:** CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NC 28025
- SITE ADDRESS:** 5650 POPLAR TENT RD
CONCORD, NC
- TOTAL SITE AREA:** 28.81 ACRES (23.02 + 0.38 + 0.19 + 0.35 + 4.87)
- ZONING:** TND & PUD
- TAX MAP ID#:** 56000885340000, 56001813430000, 56001842920000, 56001846220000, 56001920380000
- THE PARCEL IS LOCATED IN A FEMA FLOOD ZONE - FEMA MAP NO. 3710469000K DATED NOVEMBER 16, 2018 AND MAP NO. 3710560000K DATED NOVEMBER 16, 2018.**
- EXISTING SURVEY AND INFORMATION PROVIDED BY** McADAMS.

WATERSHED SITE DATA:

- WATERSHED NAME:** CODDLE CREEK
- WATERSHED CLASS:** C
- STREAM INDEX:** 13-17-6-(5.5)
- RIVER BASIN:** YADKIN PEE-DEE
- TOTAL SITE AREA:** 28.81 ACRES
- EXISTING BUA:** 2.89 ACRES (APPROX.)
- EXISTING % IMP:** 10.0% (APPROX.)



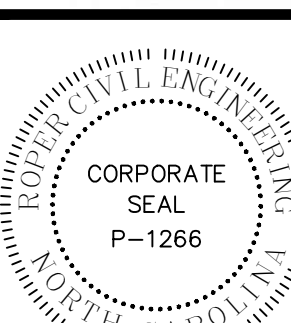
PERMIT SET



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5423



REVISIONS:

CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"

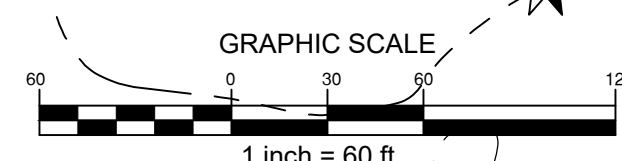
DATE: 5-4-23

SHEET NAME:

EXISTING CONDITIONS

SHEET NO:

C100



LEGEND

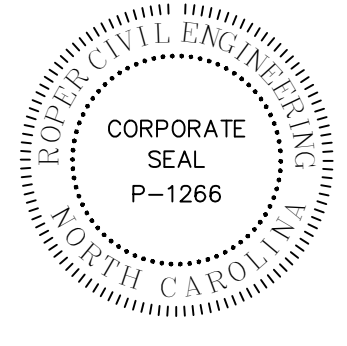
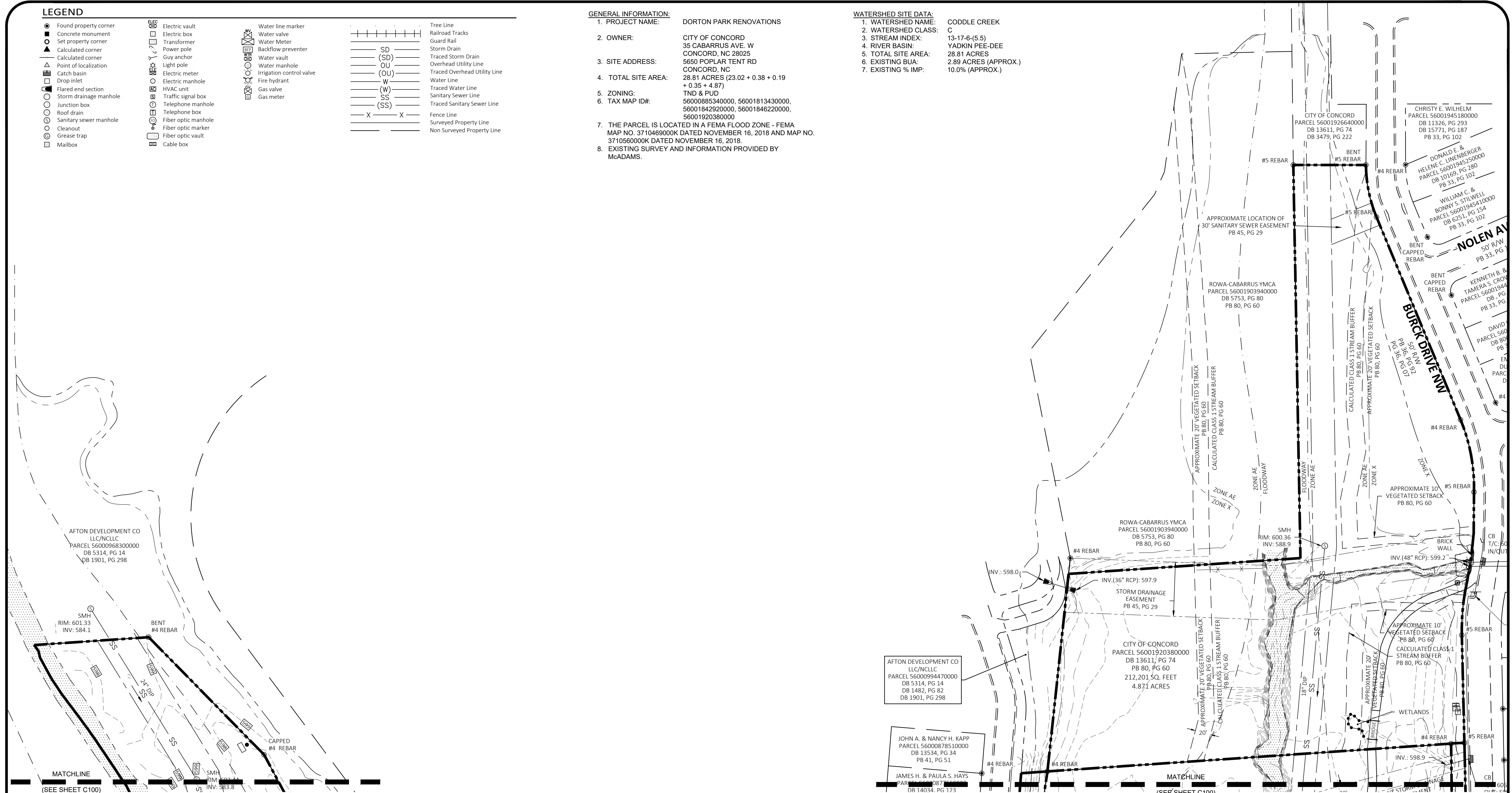
● Found property corner	⊠ Electric vault	— Water line marker	— Tree Line
■ Concrete monument	⊠ Electric box	— Water valve	— Railroad Tracks
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— Calculated corner	⊠ Guy anchor	— Water vault	— Traced Storm Drain
△ Point of localization	⊠ Light pole	— Water manhole	— Overhead Utility Line
⊠ Catch basin	⊠ Electric meter	— Irrigation control valve	— Traced Overhead Utility Line
⊠ Drop inlet	⊠ Electric manhole	— Fire hydrant	— W
⊠ Flared end section	⊠ HVAC unit	— Gas valve	— (W)
⊠ Storm drainage manhole	⊠ Traffic signal box	— Gas meter	— SS
⊠ Junction box	⊠ Telephone manhole		— (SS)
⊠ Roof drain	⊠ Telephone box		— X
⊠ Sanitary sewer manhole	⊠ Fiber optic manhole		— X
⊠ Cleanout	⊠ Fiber optic marker		— X
⊠ Grease trap	⊠ Fiber optic vault		— X
⊠ Mailbox	⊠ Cable box		— X

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5650 POPLAR TENT RD
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TND & PLUD
- ZONING: 56000885340000, 56001813430000, 56001842920000, 56001846220000, 56001920380000
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REVISIONS:

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CONCORD, NORTH CAROLINA

OWNER:

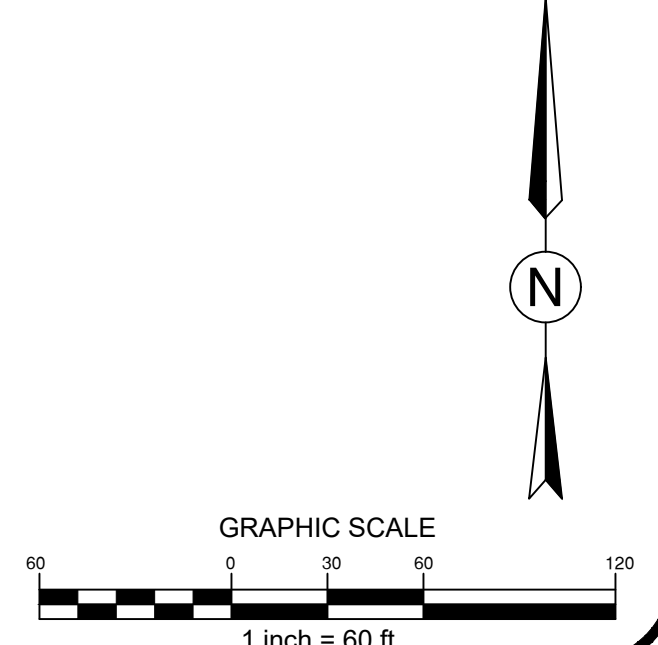
DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"
DATE: 5-4-23
SHEET NAME: EXISTING CONDITIONS
SHEET NO: C101

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



DEMOLITION NOTES:

- DEMOLITION WORK SHALL NOT COMMENCE UNTIL GRADING PERMIT HAS BEEN ISSUED.
- DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
- EXTENT OF SITE DISTURBANCE IS SHOWN ON EROSION CONTROL PLANS.
- CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH OTHER FIELDS' OPERATIONS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND/OR AUTHORITIES HAVING JURISDICTION.
- ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING UNLESS OTHERWISE SPECIFICALLY EXEMPTED BY THESE PLANS.
- DEMOLITION DEBRIS, EXCEPT AS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN A LEGAL LANDFILL IN A TIMELY MANNER. NO SALVAGE OR SALE OF DEMOLISHED MATERIALS ON SITE WILL BE ALLOWED WITHOUT PERMISSION FROM THE OWNER.
- REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFF-SITE IN A LEGAL MANNER. (PERMIT REQUIRED FOR OFF-SITE DISPOSAL)
- LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION OPERATION.
- SHOULD UNCHARTED, OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING DEMOLITION, CONSULT PROJECT ENGINEER AND UTILITY OWNER FOR IMMEDIATE ACTION.
- DEMOLISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTED "TO BE REMOVED"
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL MAINTAIN POSITIVE STORM DRAINAGE DURING CONSTRUCTION TO INSURE NO DAMAGE TO ADJACENT PROPERTIES OCCURS DURING STORM EVENTS.
- CONTRACTOR SHALL COORDINATE STORM DEMOLITION WITH STORM DRAIN IMPROVEMENTS TO MAINTAIN POSITIVE DRAINAGE.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
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- ALL DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS. THE CONTRACTOR MUST COMPLY WITH ALL OF THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
- PRIOR TO THE COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL UTILITY COMPANIES SERVING THIS AREA. THE CONTRACTOR IS TO COORDINATE FULLY WITH THE UTILITY COMPANIES ON THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, AND EXCAVATION.
- RELOCATION OR REMOVAL OF OVERHEAD OR UNDERGROUND UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY. RELOCATION OR REMOVAL OF EXISTING UTILITIES SHALL BE DONE BY OTHERS AND PAID FOR BY CONTRACTOR UNLESS PREVIOUS NEGOTIATIONS HAVE BEEN MADE WITH OWNER.
- ALL PROPOSED PAVEMENT CUTS SHALL BE SAW CUT ONLY.
- WHERE CURB AND GUTTER IS CALLED OUT TO BE REMOVED, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT (1' OFF EXISTING EDGE OF PAVEMENT) AND REMOVE PAVEMENT.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO THE OWNER PRIOR TO STARTING DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL VERIFY AND PROTECT ALL PUBLIC UTILITIES. ANY WORK ASSOCIATED WITH SAID UTILITIES TO BE COORDINATED WITH APPROPRIATE UTILITY COMPANY. DEMOLITION OF UTILITIES WHICH ARE ACTIVE SHALL BE SEQUENCED TO ALLOW FOR INSTALLATION OF NEW OR REROUTED LINES. PRIOR TO REMOVAL OF EXISTING PORTION.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTIONS PRIOR TO PROCEEDING.
- PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES AND SHALL BE THOROUGHLY FAMILIAR WITH CONDITIONS OF SAID PERMITS AND INSPECTION REQUIREMENTS.
- THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
- CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC ARE PROTECTED FROM INJURY.
- ENGINEER SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR ACTUAL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, OR FOR THE ACTS OR OMISSIONS OF CONTRACTORS OR ANY OTHER PERSONS NOT UNDER THE EMPLOYMENT OF ENGINEER.
- SHOULD THE CONTRACTOR ENCOUNTER ANY ADDITIONAL ITEMS THAT MAY REQUIRE DEMOLITION (FENCES, GUARD RAIL, ETC.) - THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR FURTHER DIRECTION.

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING BACK OF CURB
- EXISTING RIGHT OF WAY
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CREEK BED AREA

DEMOLITION LEGEND

- GRAVEL AREA TO BE REMOVED
- EXISTING STRUCTURE TO BE REMOVED.
- EXISTING TRAIL/SIDEWALK TO BE REMOVED.



PERMIT SET



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ROPER CIVIL ENGINEERING
 3007 Hinsdale Street
 Charlotte, NC 28210
 (T) 704.682.3751

PROFESSIONAL ENGINEER
 MATHIEW G. ROPER
 04-23

CORPORATE SEAL
 P-1266
 NORTH CAROLINA

REVISIONS:

6-14-2025	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"
 DATE: 5-4-23
 SHEET NAME: DEMOLITION PLAN
 SHEET NO: C102

DEMOLITION NOTES:

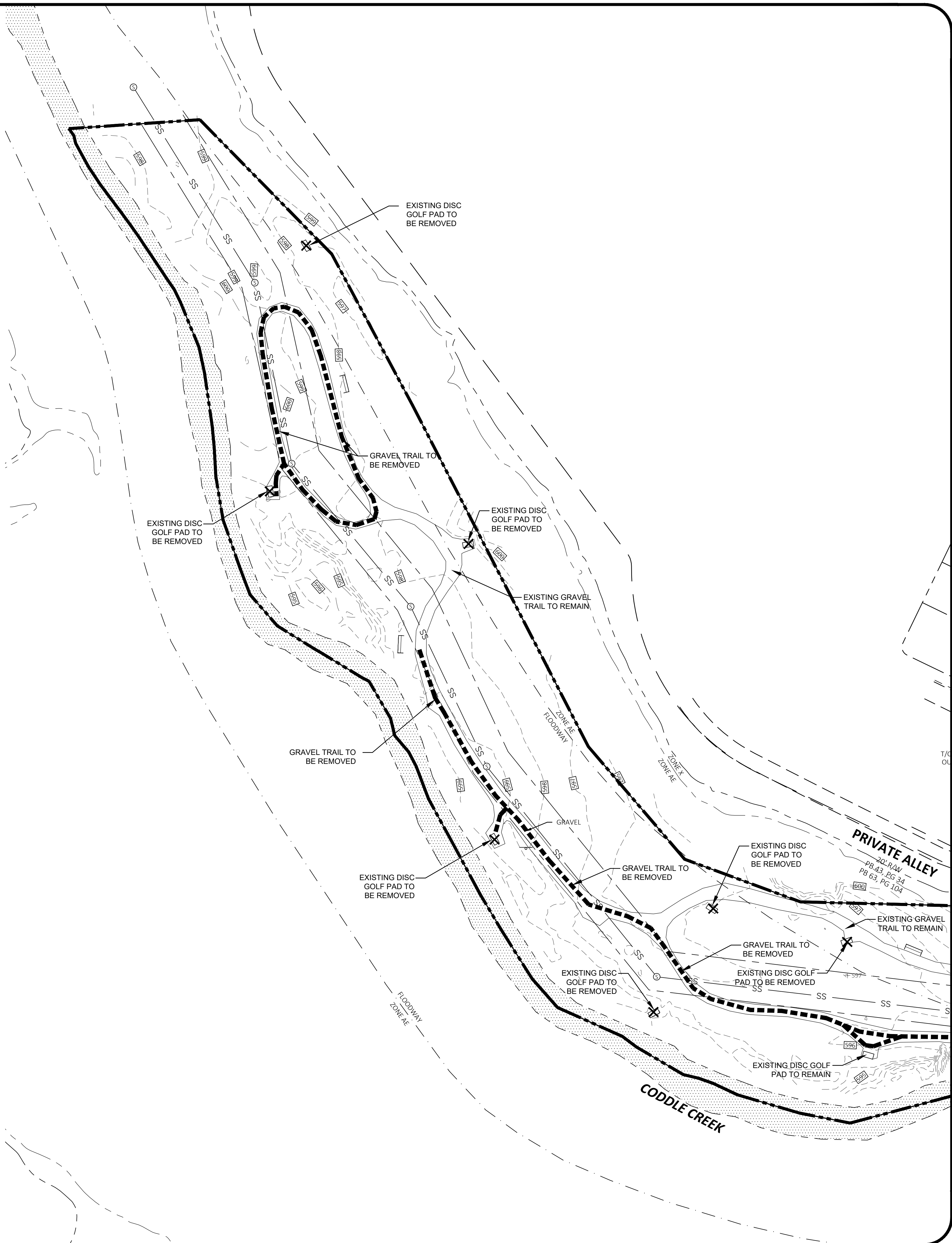
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- CONTRACTOR SHALL VERIFY AND PROTECT ALL PUBLIC UTILITIES. ANY WORK ASSOCIATED WITH SAID UTILITIES TO BE COORDINATED WITH APPROPRIATE UTILITY COMPANY. DEMOLITION OF UTILITIES WHICH ARE ACTIVE SHALL BE SEQUENCED TO ALLOW FOR INSTALLATION OF NEW OR REROUTED LINES. PRIOR TO REMOVAL OF EXISTING PORTION.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTIONS PRIOR TO PROCEEDING.
- PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES AND SHALL BE THOROUGHLY FAMILIAR WITH CONDITIONS OF SAID PERMITS AND INSPECTION REQUIREMENTS.
- THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
- CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC ARE PROTECTED FROM INJURY.
- ENGINEER SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR ACTUAL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, OR FOR THE ACTS OR OMISSIONS OF CONTRACTORS OR ANY OTHER PERSONS NOT UNDER THE EMPLOYMENT OF ENGINEER.
- SHOULD THE CONTRACTOR ENCOUNTER ANY ADDITIONAL ITEMS THAT MAY REQUIRE DEMOLITION (FENCES, GUARD RAIL, ETC.) - THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR FURTHER DIRECTION.

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING BACK OF CURB
- EXISTING RIGHT OF WAY
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CREEK BED AREA

DEMOLITION LEGEND

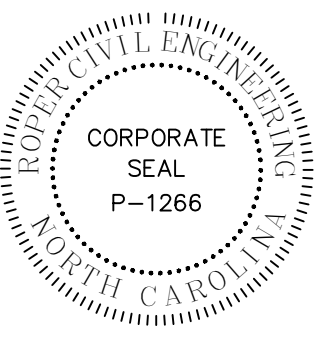
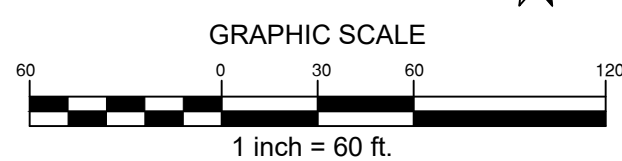
- GRAVEL AREA TO BE REMOVED
- EXISTING STRUCTURE TO BE REMOVED.
- EXISTING TRAIL/SIDEWALK TO BE REMOVED.



PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



REVISIONS:

OWNER:
CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"
DATE: 5-4-23
SHEET NAME:
DEMOLITION PLAN
SHEET NO:
C103




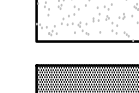
EXISTING BUA BREAKDOWN:	
EXISTING PARKING AREA:	24,585 SF
EXISTING BUILDINGS:	1,800 SF
EXISTING CONCRETE:	28,770 SF
EXISTING ASPHALT TRAILS:	13,225 SF
EXISTING GRAVEL TRAILS:	38,880 SF
EXISTING TENNIS COURTS:	18,780 SF
TOTAL EXISTING BUA:	126,040 SF

REMOVED BUA BREAKDOWN:	
REMOVED PARKING AREA:	- SF
REMOVED BUILDINGS:	- SF
REMOVED CONCRETE:	9,830 SF
REMOVED ASPHALT TRAILS:	1,215 SF
REMOVED GRAVEL TRAILS:	27,845 SF
REMOVED TENNIS COURTS:	- SF
TOTAL REMOVED BUA:	38,890 SF

PROPOSED BUA BREAKDOWN:	
PROPOSED PARKING AREA:	19,010 SF
PROPOSED BUILDINGS:	325 SF
PROPOSED CONCRETE:	8,320 SF
PROPOSED ASPHALT TRAILS:	38,700 SF
PROPOSED GRAVEL TRAILS:	9,010 SF
PROPOSED TENNIS COURTS:	- SF
TOTAL PROPOSED BUA:	75,365 SF

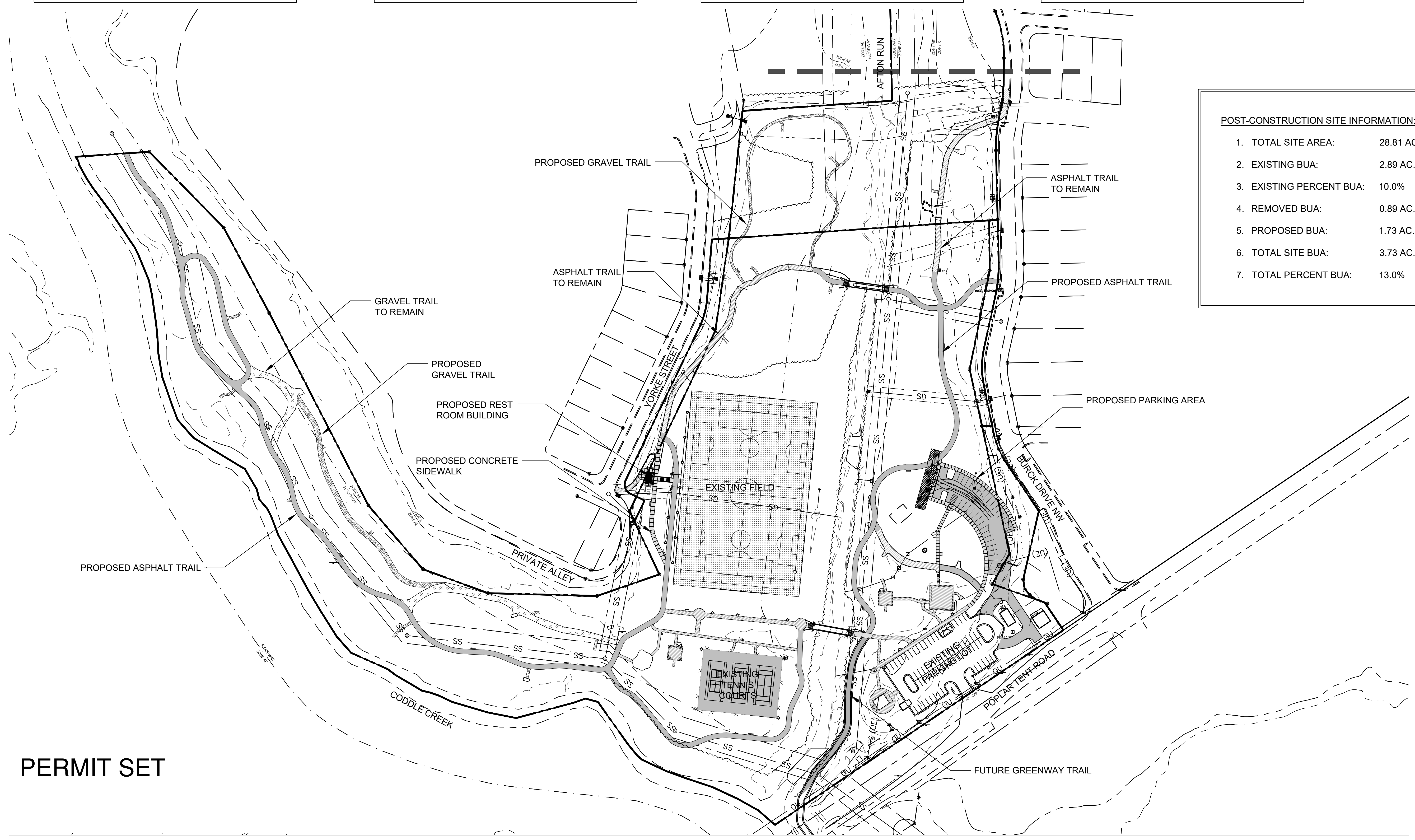
TOTAL SITE BUA BREAKDOWN:	
TOTAL PARKING AREA:	43,595 SF
TOTAL BUILDINGS:	2,125 SF
TOTAL CONCRETE:	27,260 SF
TOTAL ASPHALT TRAILS:	50,710 SF
TOTAL GRAVEL TRAILS:	20,045 SF
TOTAL TENNIS COURTS:	18,780 SF
TOTAL SITE BUA:	162,515 SF

SURFACING LEGEND

-  PROPOSED ASPHALT
-  PROPOSED CONCRETE
-  PROPOSED GRAVEL TRAIL
-  PROPOSED BUILDING

POST-CONSTRUCTION SITE INFORMATION:

- TOTAL SITE AREA: 28.81 AC. (1,254,964 SF)
- EXISTING BUA: 2.89 AC. (126,040 SF)
- EXISTING PERCENT BUA: 10.0%
- REMOVED BUA: 0.89 AC. (38,890 SF)
- PROPOSED BUA: 1.73 AC. (73,365 SF)
- TOTAL SITE BUA: 3.73 AC. (162,515 SF)
- TOTAL PERCENT BUA: 13.0%



PERMIT SET

PROPOSED BUA

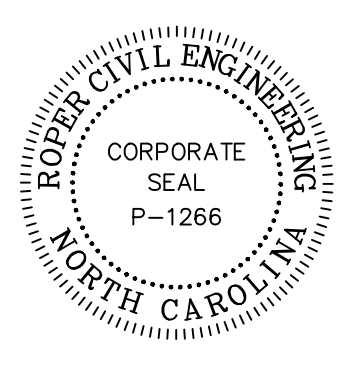


CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-2649) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

GRAPHIC SCALE
 1 inch = 100 ft.

100 0 50 100 200

ROPER CIVIL ENGINEERING
 3007 Hinsdale Street
 Charlotte, NC 28210
 (T) 704.582.3751



REVISIONS:

NO.	DATE	DESCRIPTION
1	6-14-2023	ADDENDUM 1

CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

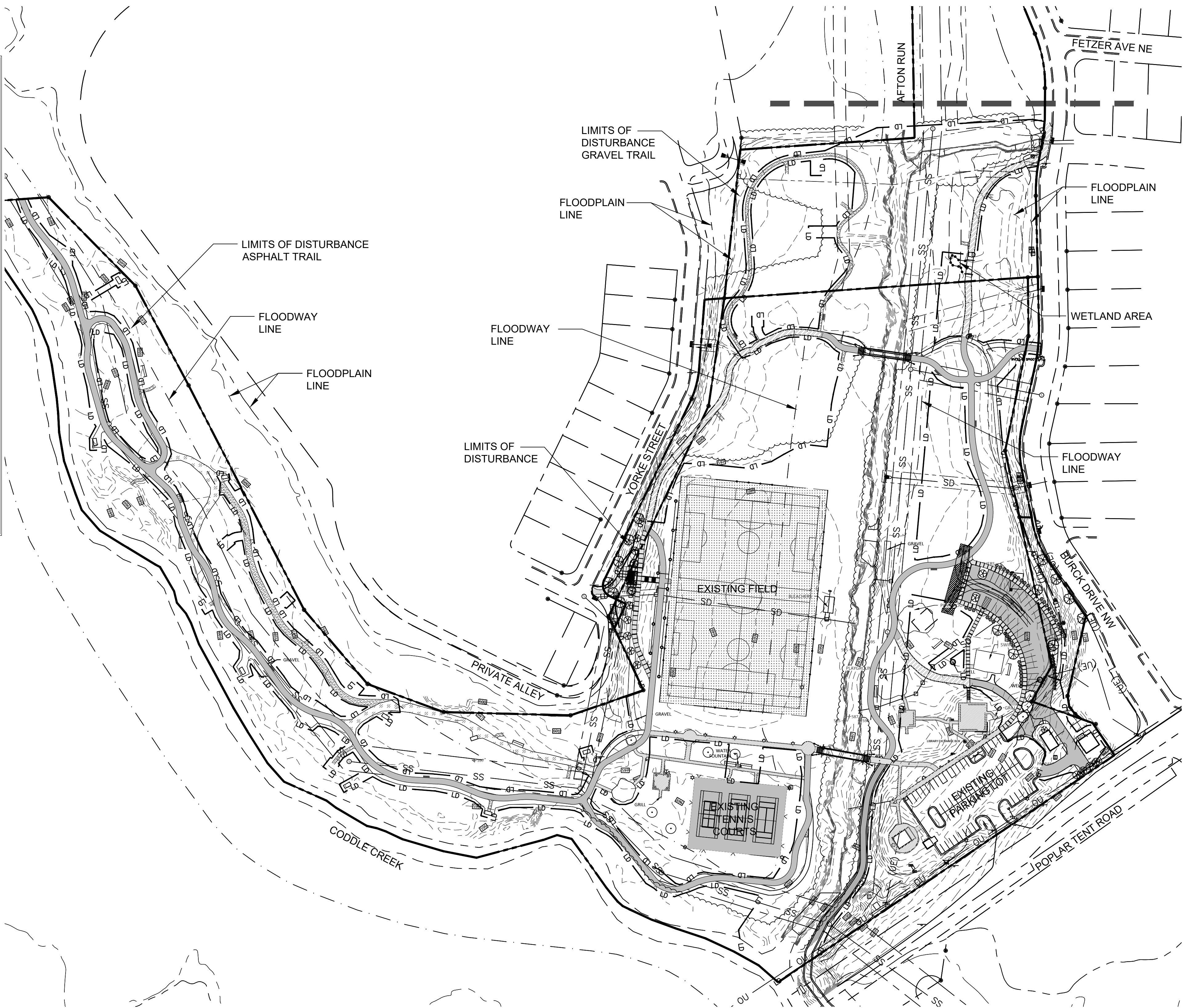
OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 100'-0"
 DATE: 5-4-23
 SHEET NAME:
STORMWATER PERMIT PLAN
 SHEET NO:
C200

- ENHANCED EROSION CONTROL MEASURES:**
1. THESE MEASURES ARE REQUIRED TO BE INSTALLED IN THE AREAS IDENTIFIED BY THE CITY OF CONCORD AND NCDEQ.
 2. SURFACE WATER DRAW DOWN DEVICES (RISERS OR SKIMMERS) SHALL BE INSTALLED IN ALL SEDIMENT BASINS. ROCK COFFER FOREBAYS SHALL BE USED IN CONJUNCTION WITH ALL SEDIMENT BASINS. THE BASIN SHALL ALSO HAVE A VOLUME TWENTY-FIVE (25) PERCENT GREATER THAN THE 1800 CUBIC FEET PER DRAINAGE AREA, WHEN POSSIBLE.
 3. POLYACRYLAMIDES (PAM) SHALL BE USED TO REDUCE TURBIDITY AND SUSPENDED SOLIDS WHENEVER A SEDIMENT TRAP, BASIN, PIT, HOLE, OR BUILDING FOUNDATION IS BEING PUMPED OUT TO REMOVE SEDIMENT LADEN WATER. PAM IS NOT REQUIRED WHEN ANY OF THE ABOVE IS BEING PUMPED TO AN APPROVED SEDIMENT BASIN ON SITE. THIS ACTIVITY MUST BE INSPECTED AND APPROVED BY THE CITY EROSION CONTROL INSPECTOR.
 4. POLYACRYLAMIDES MAY BE REQUIRED ON SITE, AS DETERMINED BY THE CITY EROSION CONTROL INSPECTOR.
 5. DOUBLE-ROW HIGH HAZARD SILT FENCE WITH WIRE BACKING AND STONE SHALL BE USED ALONG WETLANDS, STREAMS, LAKES, OR OTHER SURFACE WATER BODIES AS WELL AS ADJACENT TO ALL WATER QUALITY BUFFERS. SINGLE-ROW OF SILT FENCE WITH WIRE BACKING AND WASHED STONE MAY BE REQUIRED ON ALL OTHER AREAS, AS DETERMINED NECESSARY BY THE CITY ENGINEER OR FIELD INSPECTOR.
 6. THE AMOUNT OF UNCOVERED AREA AT ANY ONE TIME SHALL BE LIMITED TO NO MORE THAN 20 ACRES, UNLESS APPROVED BY THE CITY.
 7. A 10-FOOT UNDISTURBED BUFFER SHALL BE PROVIDED AROUND THE OUTSIDE EDGE OF DRAINAGE FEATURES SUCH AS INTERMITTENT AND PERENNIAL STREAMS, PONDS, AND WETLANDS. INCIDENTAL DRAINAGE IMPROVEMENTS OR REPAIRS WILL BE PERMITTED WITHIN THE BUFFER AS APPROVED BY CITY STAFF. THESE WOULD INCLUDE ANY ALLOWANCES STATED IN THE CITY ORDINANCES, IF APPLICABLE.
 8. A GROUND COVER SUFFICIENT TO RESTRAIN ACCELERATED EROSION MUST BE PROVIDED WITHIN 7 CALENDAR DAYS OF THE DATE OF LAST LAND-DISTURBING ACTIVITY ON ANY PORTION OF THE PROJECT.
 9. ALL DIVERSION DITCHES AND INTERIOR BASIN SLOPES MUST BE MATTED.
 10. SUFFICIENT ACCESS FOR CONSTRUCTION AND MAINTENANCE MUST BE PROVIDED AT THE TOE OF ALL RETAINING WALLS THAT ARE 4' OR HIGHER. THE MINIMUM ACCESS WIDTH SHOULD BE NO LESS THAN SIX FEET.
 11. FILL SLOPE STEEPNESS SHALL BE LIMITED TO 2:1. SLOPES STEEPER THAN 3:1 MUST BE TERRACED OR OTHERWISE PROVIDE AN APPROVED ENGINEERED SOLUTION. SLOPES 3:1 OR FLATTER MUST BE DESIGNED AS SET FORTH IN THE N.C. SOIL EROSION & SEDIMENT PLANNING & DESIGN MANUAL, STANDARD 6.02a.

- EROSION CONTROL NOTES:**
1. INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED IN THE WORKING AREA AND REQUIRED UNTIL THE SITE IS FULLY STABILIZED
 2. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
 3. GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
 4. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS, WHICHEVER SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
 5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY OF CONCORD EROSION CONTROL DEPARTMENT.
 6. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
 7. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
 8. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CITY OF CONCORD STANDARDS AND THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
 9. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1 (HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BORROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
 10. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
 11. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED UNTIL SITE IS STABILIZED.
 12. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
 13. ALL DISTANCES ARE HORIZONTAL GROUND.
 14. ANCHOR SILT FENCE WITH STONE ON TREE PROTECTION ZONES. DO NOT BURY.



LEGEND

---	PROPERTY LINE
---	EXISTING CONTOUR
LD	PROPOSED LIMITS OF DISTURBANCE
SD	EXISTING STORM PIPE
---	PROPOSED STORM PIPE
---	PROPOSED CONTOUR

- STANDARD EROSION CONTROL NOTES:**
1. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
 2. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
 3. GRADING MORE THAN ONE-ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
 4. ALL PERIMETER AREAS AND SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITHIN 7 DAYS. GROUND STABILIZATION ON ALL OTHER AREAS MUST BE COMPLETED WITHIN 14 DAYS. REFER TO THE EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
 5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY.
 6. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
 7. TEMPORARY DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT-OF-WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
 8. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. SLOPED GREATER THAN 10 VERTICAL FEET REQUIRE ADEQUATE TERRACING. SOILS ENGINEER TO VERIFY STABILITY OF SLOPES GREATER THAN 2:1.
 9. SOIL COMPACTION TESTS ARE REQUIRED ON ANY BERM >=5' IN HEIGHT FROM THE NATURAL GRADE. SOIL COMPACTION MUST BE AT 95% PROCTOR AND CERTIFIED BY A LICENSED SOIL ENGINEER.

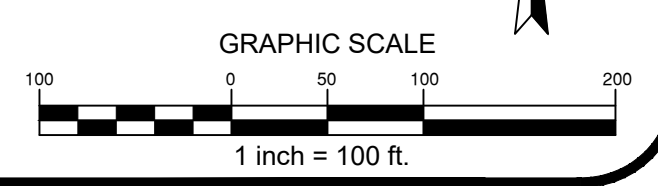
DEWATERING NOTE:

DEWATERING MAY BE NECESSARY IN THE EXCAVATION AREAS (E.G. SUBGRADE AREAS). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE PRIOR TO DISCHARGE).

- STREAM AND WETLAND NOTES:**
- 1) JURISDICTIONAL STREAMS AND WETLANDS HAVE BEEN DELINEATED ON THE SITE AND SHOWN ON THE CONSTRUCTION DOCUMENTS.
 - 2) ALL EXISTING JURISDICTIONAL STREAMS AND WETLANDS WILL BE CLEARLY FLAGGED AND/OR STAKED AND BE PROTECTED FROM DISTURBANCE DURING CONSTRUCTION ACTIVITIES.
 - 3) THE STREAM RESTORATION DESIGN AND PERMITTING HAVE BEEN PERFORMED BY MCADAMS. REFER TO STREAM RESTORATION CONSTRUCTION DOCUMENTS FOR THAT PORTION OF THE PROJECT.
 - 4) ALL STREAM CROSSINGS FOR THE TRAIL SYSTEM WILL BE WITH AN ELEVATED FOOTBRIDGE.

- MAINTENANCE SCHEDULE:**
- 1) ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY STORM EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY REPAIRS OR CLEANING NECESSARY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE COMPLETED IMMEDIATELY.
 - 2) ALL SEEDED AREAS SHALL BE REFERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SEEDING SCHEDULE.
- UTILITY NOTES:**
- 1) ALL EXISTING UTILITIES TO BE ABANDONED SHOULD BE GROUTED; ADDITIONALLY ALL ABANDONED PIPES SHOULD BE CHECKED WITH FOOTING DEPTHS AND PROPOSED UTILITIES, AND REMOVED IF CONFLICT OCCURS.

TOTAL DENUDED AREA = 13.3 ACRES

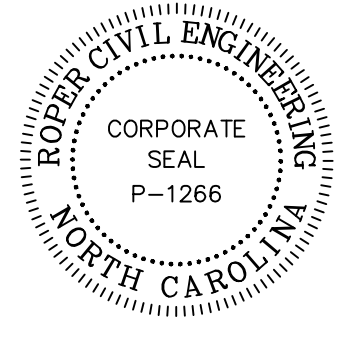


PERMIT SET



CONTRACTOR SHALL NOTIFY NORTH CAROLINA ONE CALL (811) OR (1-800-432-4849) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

ROPER CIVIL ENGINEERING
 3007 Hinsdale Street
 Charlotte, NC 28210
 (T) 704.582.3751



REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRIUS AVE. W
 CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 100'-0"
 DATE: 5-4-23
 SHEET NAME:
OVERALL EROSION PLAN
 SHEET NO:
C300

CONSTRUCTION SEQUENCE PHASE 1:

- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM NCDEQ - DEMLR AND STORMWATER PERMIT FROM CITY OF CONCORD, AND ALL OTHER NECESSARY PERMITS FROM OTHER APPLICABLE AGENCIES.
- AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION, CONTACT THE DEMLR SECTION IN THE MOORESVILLE REGIONAL DEQ OFFICE AT (704)663-1699 AND THE ENGINEER. MEET WITH DEMLR REPRESENTATIVES AND THE ENGINEER ON-SITE AT THEIR REQUEST FOR A PRE-CONSTRUCTION MEETING.
- PRIOR TO ANY CLEARING OR INSTALLATION OF EROSION CONTROL DEVICES, CONTRACTOR SHALL STAKE CLEARING LIMITS AND STAKE ALL TREES, STRUCTURES AND WETLANDS TO REMAIN AND BE PROTECTED. ALL BUFFERS AND WETLANDS SHALL BE CLEARLY DELINEATED IN THE FIELD TO BE PROTECTED.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND PERIMETER CONSTRUCTION FENCING AND SILT FENCE. TIRE WASH MAY BE REQUIRED IF CONSTRUCTION ENTRANCE IS NOT SUFFICIENT TO RETAIN SOIL. CONTRACTOR TO BLOCK ALL POSSIBLE ENTRANCES TO SITE BESIDES APPROVED CONSTRUCTION ENTRANCE W/ FENCING AND ORANGE BARRELS.
- UPON COMPLETION OF INITIAL MEASURES, CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- INSTALL SILT FENCE, DIVERSION DITCHES, TREE PROTECTION, AND ANY OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- GENERAL CONTRACTOR SHALL ENSURE THAT EROSION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PRIOR TO GRUBBING AND GRADING OPERATIONS.
- BEGIN DEMO AND GRADING, INSTALLING ADDITIONAL EROSION CONTROL MEASURES AS INDICATED, AS REQUIRED, AND AS DEEMED NECESSARY BY THE EROSION CONTROL INSPECTOR.
- FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES. NO DEVICE SHALL BE REMOVED UNTIL SITE IS STABILIZED.
- ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. IF ANY FAILURES ARE FOUND THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF CONCORD STANDARDS, THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, AND U.S. DEPT. OF AGRICULTURE.

EROSION CONTROL NOTES:

- INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED IN THE WORKING AREA AND REQUIRED UNTIL THE SITE IS FULLY STABILIZED.
- ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
- GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
- ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY OF CONCORD EROSION CONTROL DEPARTMENT.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
- ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CITY OF CONCORD STANDARDS AND THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1 (HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BORROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
- LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED UNTIL SITE IS STABILIZED.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
- ALL DISTANCES ARE HORIZONTAL GROUND.
- ANCHOR SILT FENCE WITH STONE ON TREE PROTECTION ZONES. DO NOT BURY.

MAINTENANCE SCHEDULE:

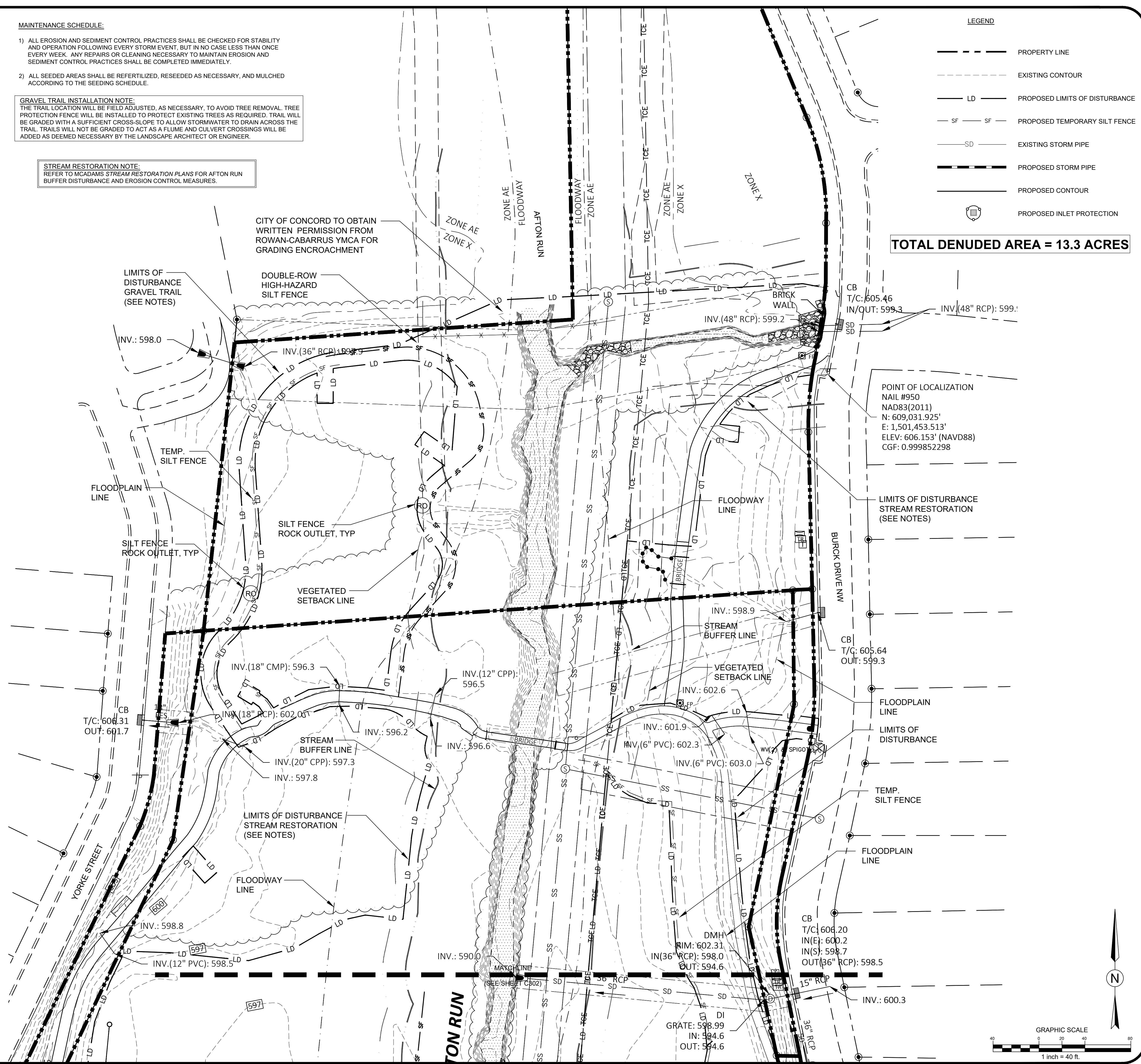
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY STORM EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY REPAIRS OR CLEANING NECESSARY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE COMPLETED IMMEDIATELY.
- ALL SEEDED AREAS SHALL BE REFERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SEEDING SCHEDULE.

GRAVEL TRAIL INSTALLATION NOTE:

THE TRAIL LOCATION WILL BE FIELD ADJUSTED, AS NECESSARY, TO AVOID TREE REMOVAL. TREE PROTECTION FENCE WILL BE INSTALLED TO PROTECT EXISTING TREES AS REQUIRED. TRAIL WILL BE GRADED WITH A SUFFICIENT CROSS-SLOPE TO ALLOW STORMWATER TO DRAIN ACROSS THE TRAIL. TRAILS WILL NOT BE GRADED TO ACT AS A FLUME AND CULVERT CROSSINGS WILL BE ADDED AS DEEMED NECESSARY BY THE LANDSCAPE ARCHITECT OR ENGINEER.

STREAM RESTORATION NOTE:

REFER TO MCADAMS STREAM RESTORATION PLANS FOR AFTON RUN BUFFER DISTURBANCE AND EROSION CONTROL MEASURES.



LEGEND

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- LD — PROPOSED LIMITS OF DISTURBANCE
- SF - SF - PROPOSED TEMPORARY SILT FENCE
- SD — EXISTING STORM PIPE
- — — PROPOSED STORM PIPE
- — — PROPOSED CONTOUR
- ⊞ PROPOSED INLET PROTECTION

TOTAL DENUDED AREA = 13.3 ACRES

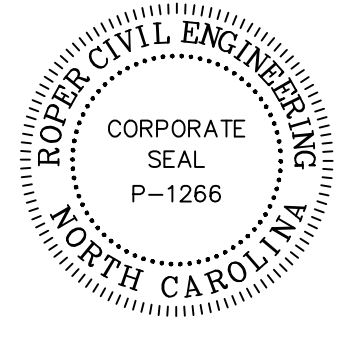
POINT OF LOCALIZATION
 NAIL #950
 NAD83(2011)
 N: 609,031.925'
 E: 1,501,453.513'
 ELEV: 606.153' (NAVD88)
 CGF: 0.999852298

PERMIT SET



CONTRACTOR SHALL NOTIFY NORTH CAROLINA ONE CALL (811) OR (1-800-432-4849) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

ROPER CIVIL ENGINEERING
 3007 Himsdale Street
 Charlotte, NC 28210
 (704) 582-3751



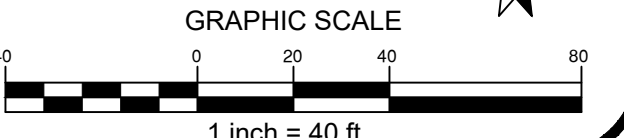
REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 40'-0"
 DATE: 5-4-23
 SHEET NAME: PHASE 1 EROSION PLAN
 SHEET NO: C301



CONSTRUCTION SEQUENCE PHASE 1:

- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM NCDEQ - DEMLR AND STORMWATER PERMIT FROM CITY OF CONCORD, AND ALL OTHER NECESSARY PERMITS FROM OTHER APPLICABLE AGENCIES.
- AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION, CONTACT THE DEMLR SECTION IN THE MOORESVILLE REGIONAL DEQ OFFICE AT (704)663-1699 AND THE ENGINEER. MEET WITH DEMLR REPRESENTATIVES AND THE ENGINEER ON-SITE AT THEIR REQUEST FOR A PRE-CONSTRUCTION MEETING.
- PRIOR TO ANY CLEARING OR INSTALLATION OF EROSION CONTROL DEVICES, CONTRACTOR SHALL STAKE CLEARING LIMITS AND STAKE ALL TREES, STRUCTURES AND WETLANDS TO REMAIN AND BE PROTECTED. ALL BUFFERS AND WETLANDS SHALL BE CLEARLY DELINEATED IN THE FIELD TO BE PROTECTED.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND PERIMETER CONSTRUCTION FENCING AND SILT FENCE. TIRE WASH MAY BE REQUIRED IF CONSTRUCTION ENTRANCE IS NOT SUFFICIENT TO RETAIN SOIL. CONTRACTOR TO BLOCK ALL POSSIBLE ENTRANCES TO SITE BESIDES APPROVED CONSTRUCTION ENTRANCE W/ FENCING AND ORANGE BARRELS.
- UPON COMPLETION OF INITIAL MEASURES, CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- INSTALL SILT FENCE, DIVERSION DITCHES, TREE PROTECTION, AND ANY OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- GENERAL CONTRACTOR SHALL ENSURE THAT EROSION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PRIOR TO GRUBBING AND GRADING OPERATIONS.
- BEGIN DEMO AND GRADING, INSTALLING ADDITIONAL EROSION CONTROL MEASURES AS INDICATED, AS REQUIRED, AND AS DEEMED NECESSARY BY THE EROSION CONTROL INSPECTOR.
- FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUEDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES. NO DEVICE SHALL BE REMOVED UNTIL SITE IS STABILIZED.
- ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. IF ANY FAILURES ARE FOUND THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF CONCORD STANDARDS, THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, AND U.S. DEPT. OF AGRICULTURE.

EROSION CONTROL NOTES:

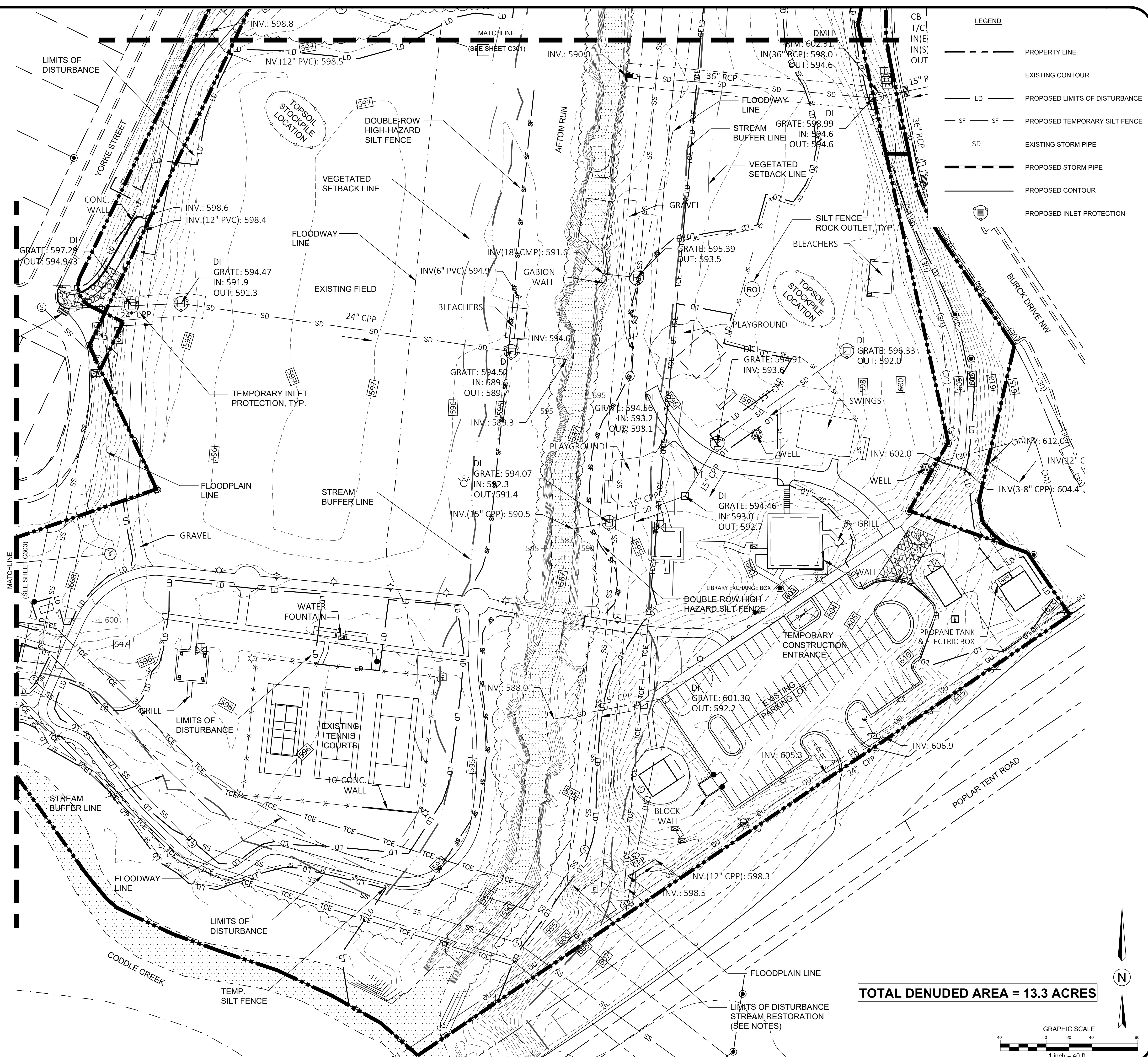
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- GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
- ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
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STREAM RESTORATION NOTE:
REFER TO MACADAMS STREAM RESTORATION PLANS FOR AFTON RUN BUFFER DISTURBANCE AND EROSION CONTROL MEASURES.

PERMIT SET



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LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR
- LD PROPOSED LIMITS OF DISTURBANCE
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- SD - EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED CONTOUR
- PROPOSED INLET PROTECTION

ROPER CIVIL ENGINEERING
3007 Himsdale Street
Charlotte, NC 28210
(704) 582-3751

REGISTERED PROFESSIONAL ENGINEER
MATTHEW G. ROPER
04-23

REGISTERED PROFESSIONAL ENGINEER
CORPORATE SEAL
P-1266
NORTH CAROLINA

REVISIONS:

6-14-2025	ADDENDUM 1
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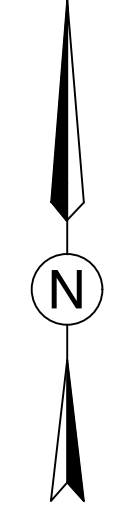
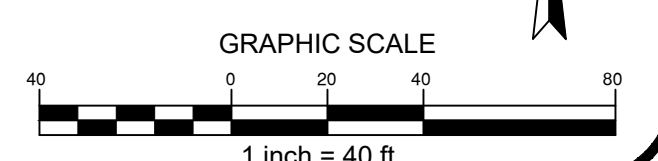
CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 40'-0"
DATE: 5-4-23
SHEET NAME:
PHASE 1 EROSION PLAN
SHEET NO:
C302

TOTAL DENUEDED AREA = 13.3 ACRES



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MAINTENANCE SCHEDULE:

- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY STORM EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY REPAIRS OR CLEANING NECESSARY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE COMPLETED IMMEDIATELY.
- ALL SEEDED AREAS SHALL BE REFERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SEEDING SCHEDULE.

GRAVEL TRAIL INSTALLATION NOTE:

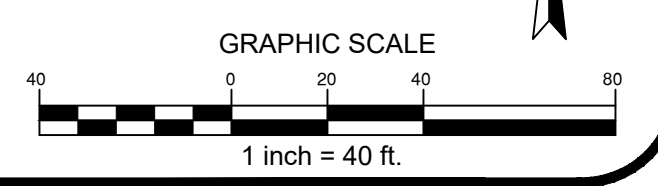
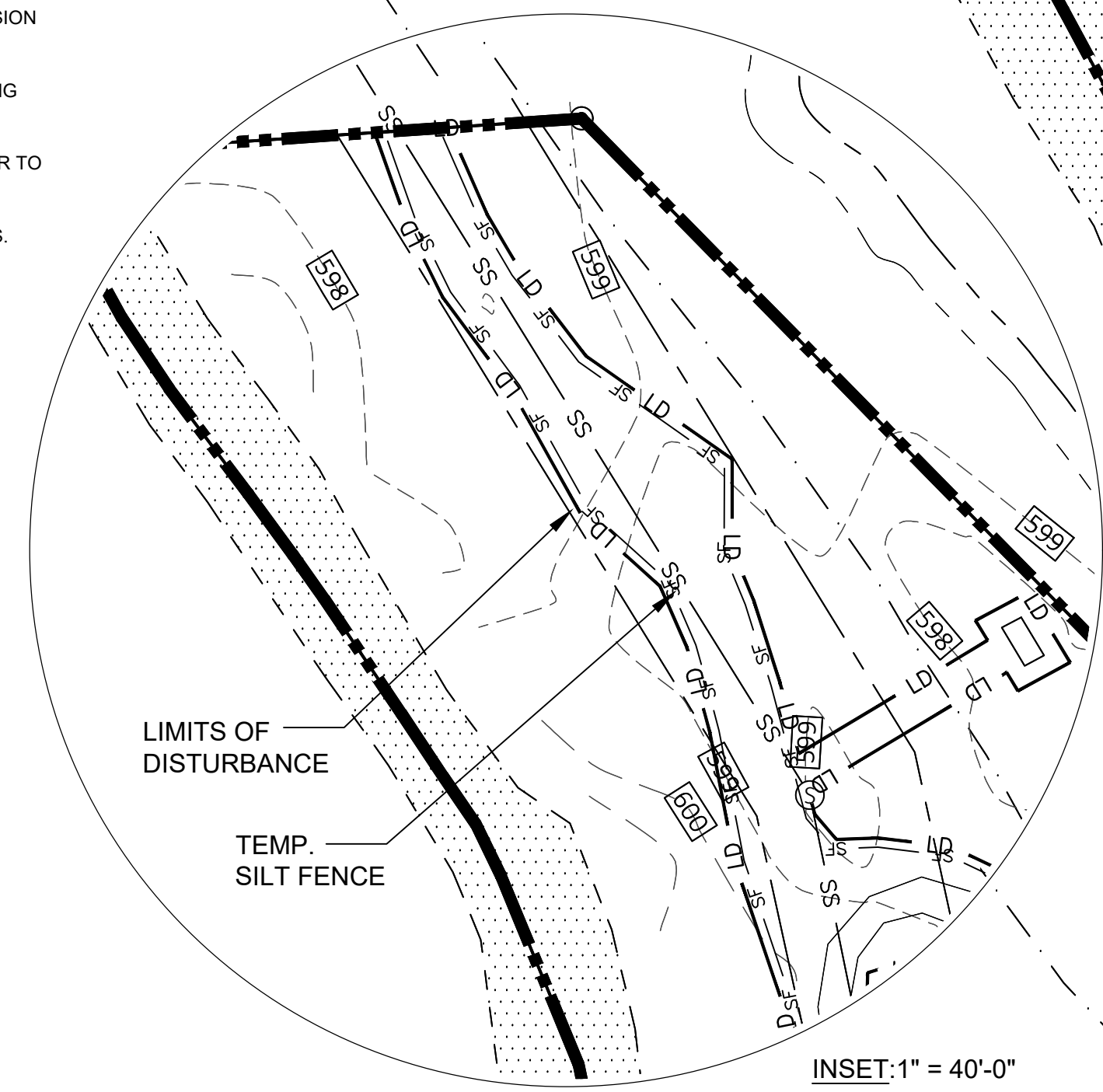
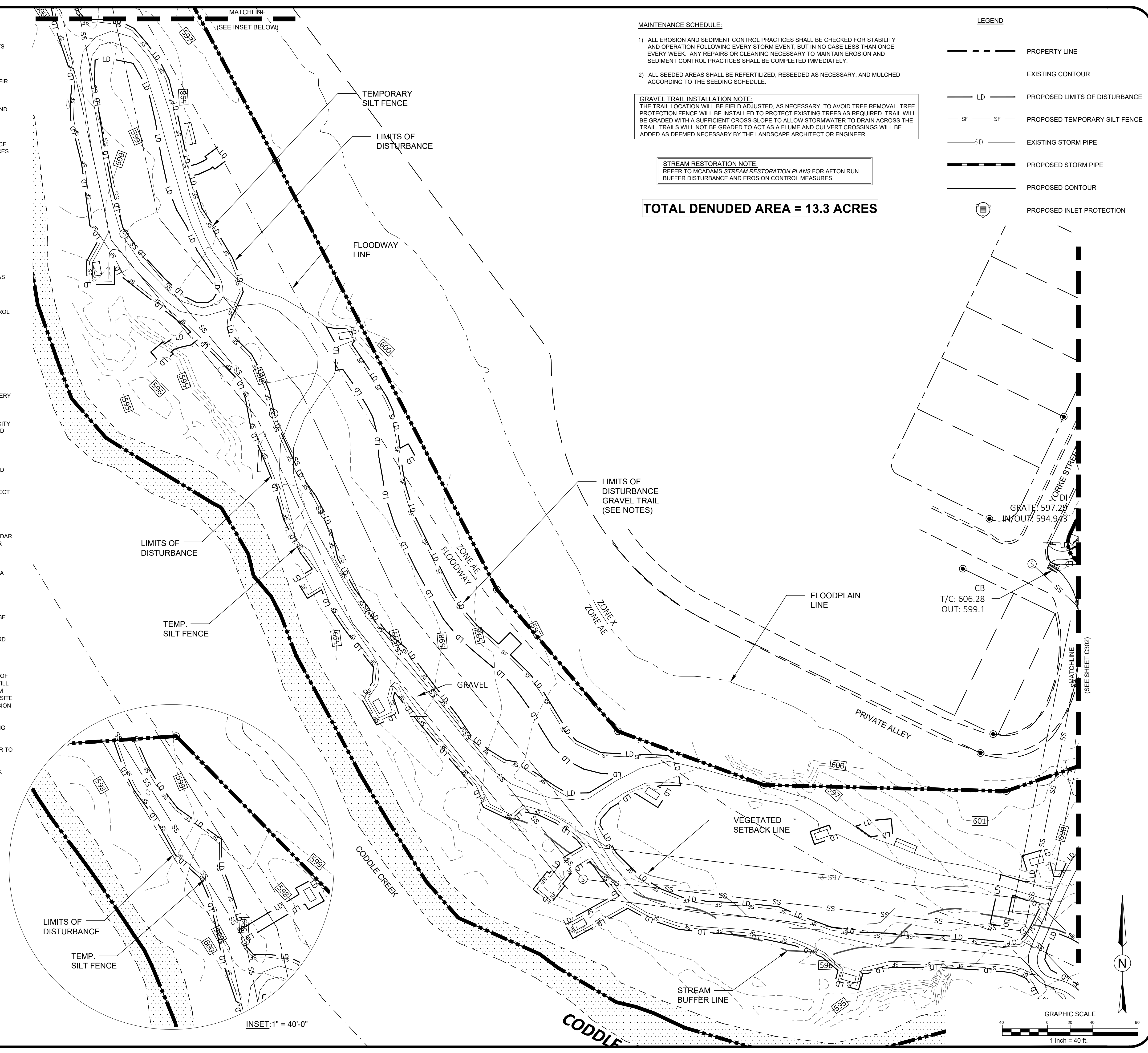
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STREAM RESTORATION NOTE:
REFER TO MCDAMMS STREAM RESTORATION PLANS FOR AFTON RUN BUFFER DISTURBANCE AND EROSION CONTROL MEASURES.

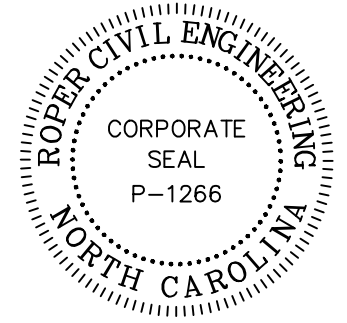
TOTAL DENUDED AREA = 13.3 ACRES

LEGEND

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- LD PROPOSED LIMITS OF DISTURBANCE
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ROPER CIVIL ENGINEERING
3007 Himsdale Street
Charlotte, NC 28210
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REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 40'-0"
DATE: 5-4-23
SHEET NAME:
PHASE 1 EROSION PLAN
SHEET NO:
C303

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-4849) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

INSET: 1" = 40'-0"

CONSTRUCTION SEQUENCE PHASE 2:

1. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL MEASURES AND DEVICES.
2. THE CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO THE REMOVAL OF ANY PHASE 1 EROSION CONTROL MEASURES.
3. FOR PHASED EROSION CONTROL PLANS, THE CONTRACTOR SHALL MEET WITH THE EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH THE NEXT PHASE OF THE EROSION CONTROL PLAN.
4. CONTRACTOR MAY INITIATE WORK ON UNDERGROUND UTILITIES INCLUDING STORM DRAINAGE.
5. INSTALL TEMPORARY INLET PROTECTION AS THE AREAS IN THE VICINITY OF THE STORM DRAINAGE IS BROUGHT UP TO FINISHED GRADE.
6. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS INDICATED, AS REQUIRED, AND AS DEEMED NECESSARY BY THE EROSION CONTROL INSPECTOR
7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES
8. THE LAND DEVELOPMENT INSPECTOR SHOULD BE CALLED TO CONDUCT INSPECTIONS ON STORM DRAINAGE, SIDEWALKS, DRIVEWAY ON STORM DRAINAGE, DRIVEWAY IMPROVEMENTS, AND ALL ASPECTS OF ROAD/PARKING LOT CONSTRUCTION.
9. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
10. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS
11. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES. NO DEVICE SHALL BE REMOVED UNTIL SITE IS STABILIZED.
12. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CONCORD EROSION CONTROL ORDINANCE, THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, AND CHARLOTTE-MECKLENBURG LAND DEVELOPMENT STANDARDS.
13. CALL THE WATER QUALITY INSPECTOR TO SET-UP A BMP PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON BMPs. THIS MEETING SHOULD TAKE PLACE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP AND SHALL INCLUDE THE DESIGN ENGINEER TO ENSURE ENGINEER INSPECTIONS ARE PERFORMED AT KEY BMP INSTALLATION PHASES.
14. THE DESIGN ENGINEER MUST VERIFY AND CERTIFY THE DRAINAGE AREA IS PROPERLY STABILIZED, MEASURES ARE IN PLACE TO PREVENT SEDIMENTATION INTO THE BMP, THE STORM DRAINS, INLETS AND PAVEMENT HAVE BEEN PROPERLY CLEANED PRIOR TO COMMENCEMENT OF BMP CONSTRUCTION.
15. THE CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO THE REMOVAL OF ANY EROSION CONTROL MEASURES.
16. ONCE FINAL STABILIZATION HAS BEEN REACHED, THE NOTICE OF TERMINATION MAY BE FILED TO CLOSE-OUT THE LAND DISTURBANCE PERMIT.

EROSION CONTROL NOTES:

1. INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED IN THE WORKING AREA AND REQUIRED UNTIL THE SITE IS FULLY STABILIZED
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MAINTENANCE SCHEDULE:

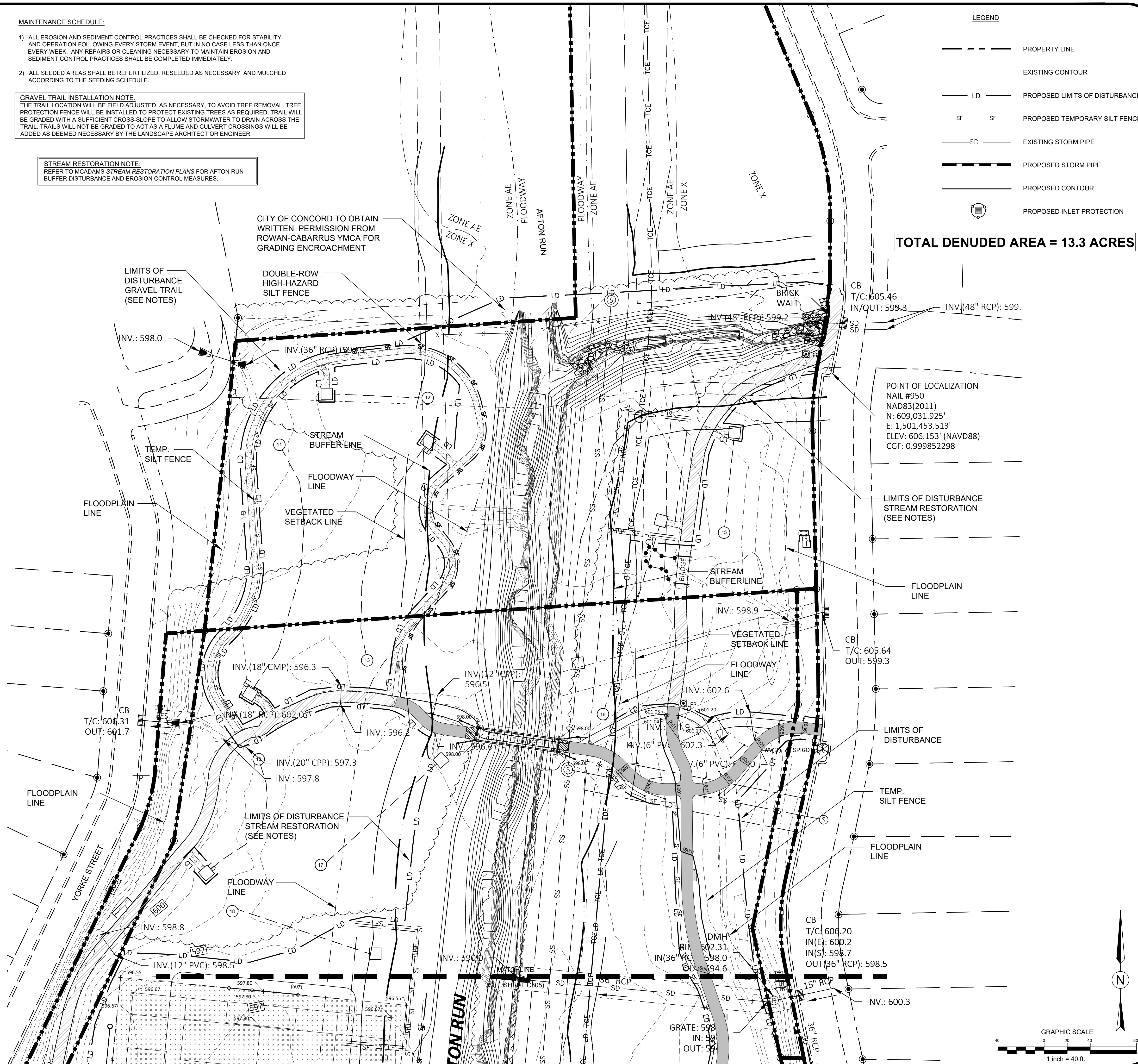
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GRAVEL TRAIL INSTALLATION NOTE:

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 NAIL #950
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 E: 1,501,453.513'
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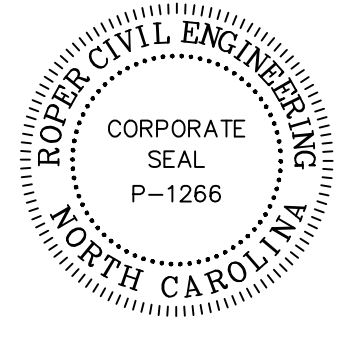
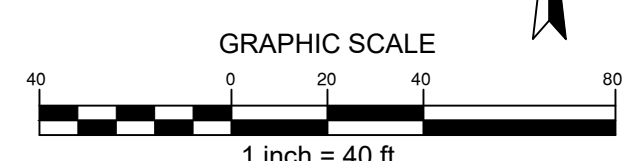
LEGEND

---	PROPERTY LINE
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SF	PROPOSED TEMPORARY SILT FENCE
SD	EXISTING STORM PIPE
---	PROPOSED STORM PIPE
---	PROPOSED CONTOUR
⊕	PROPOSED INLET PROTECTION

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-0469) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

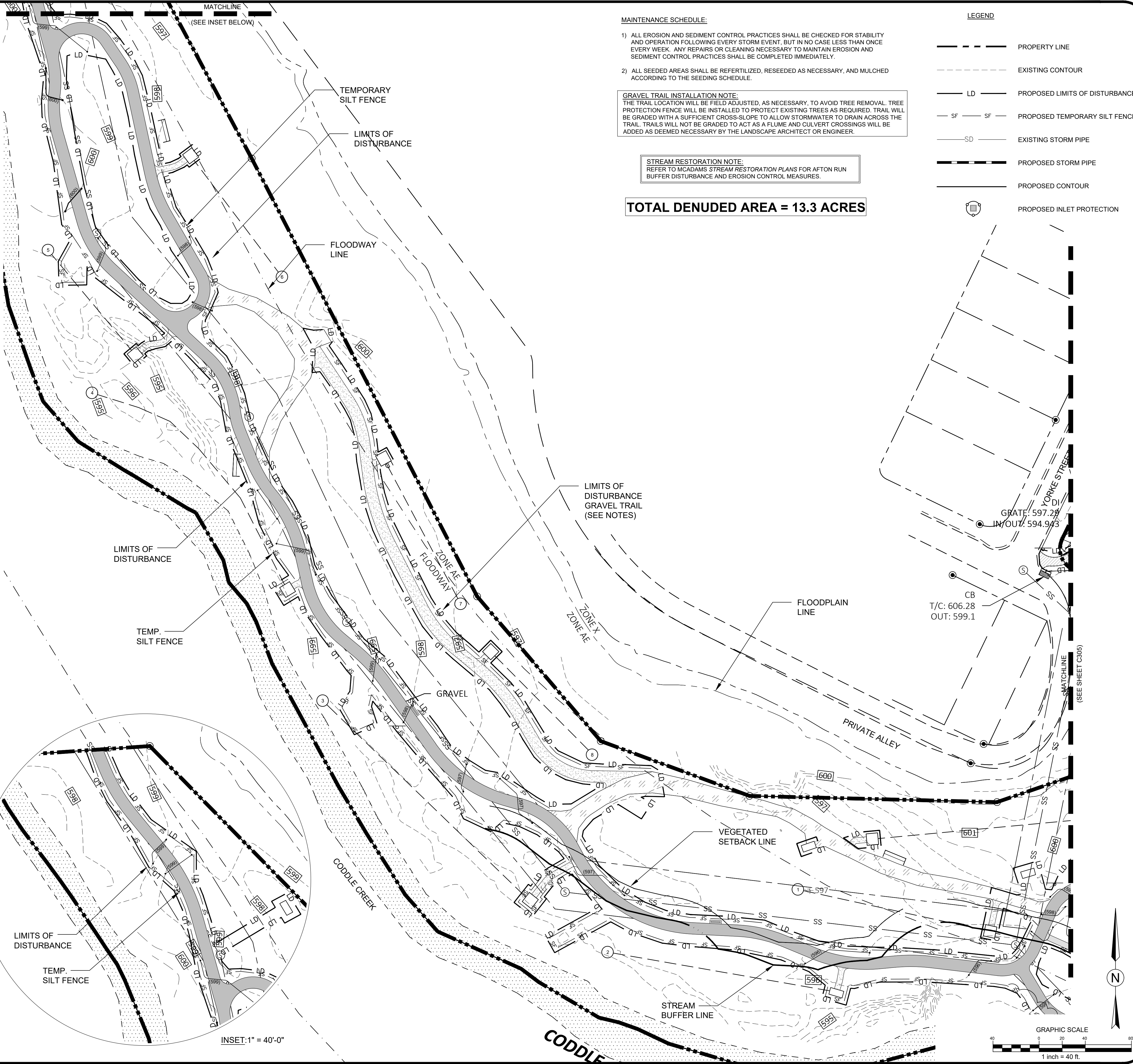
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 DATE: 5-4-23
 SHEET NAME:
PHASE 2 EROSION PLAN
 SHEET NO:
C304

CONSTRUCTION SEQUENCE PHASE 2:

1. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL MEASURES AND DEVICES.
2. THE CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO THE REMOVAL OF ANY PHASE 1 EROSION CONTROL MEASURES.
3. FOR PHASED EROSION CONTROL PLANS, THE CONTRACTOR SHALL MEET WITH THE EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH THE NEXT PHASE OF THE EROSION CONTROL PLAN.
4. CONTRACTOR MAY INITIATE WORK ON UNDERGROUND UTILITIES INCLUDING STORM DRAINAGE.
5. INSTALL TEMPORARY INLET PROTECTION AS THE AREAS IN THE VICINITY OF THE STORM DRAINAGE IS BROUGHT UP TO FINISHED GRADE.
6. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS INDICATED, AS REQUIRED, AND AS DEEMED NECESSARY BY THE EROSION CONTROL INSPECTOR.
7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
8. THE LAND DEVELOPMENT INSPECTOR SHOULD BE CALLED TO CONDUCT INSPECTIONS ON STORM DRAINAGE, SIDEWALKS, DRIVEWAY ON STORM DRAINAGE, DRIVEWAY IMPROVEMENTS, AND ALL ASPECTS OF ROAD/PARKING LOT CONSTRUCTION.
9. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
10. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
11. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES. NO DEVICE SHALL BE REMOVED UNTIL SITE IS STABILIZED.
12. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF CONCORD EROSION CONTROL ORDINANCE, THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, AND CHARLOTTE-MECKLENBURG LAND DEVELOPMENT STANDARDS.
13. CALL THE WATER QUALITY INSPECTOR TO SET-UP A BMP PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON BMPs. THIS MEETING SHOULD TAKE PLACE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP AND SHALL INCLUDE THE DESIGN ENGINEER TO ENSURE ENGINEER INSPECTIONS ARE PERFORMED AT KEY BMP INSTALLATION PHASES.
14. THE DESIGN ENGINEER MUST VERIFY AND CERTIFY THE DRAINAGE AREA IS PROPERLY STABILIZED, MEASURES ARE IN PLACE TO PREVENT SEDIMENTATION INTO THE BMP, THE STORM DRAINS, INLETS AND PAVEMENT HAVE BEEN PROPERLY CLEANED PRIOR TO COMMENCEMENT OF BMP CONSTRUCTION.
15. THE CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO THE REMOVAL OF ANY EROSION CONTROL MEASURES.
16. ONCE FINAL STABILIZATION HAS BEEN REACHED, THE NOTICE OF TERMINATION MAY BE FILED TO CLOSE-OUT THE LAND DISTURBANCE PERMIT.

EROSION CONTROL NOTES:

1. INLET PROTECTION IS REQUIRED FOR ALL INLETS LOCATED IN THE WORKING AREA AND REQUIRED UNTIL THE SITE IS FULLY STABILIZED.
2. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
3. GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
4. ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS, WHICHEVER IS SHORTER. ALL OTHER AREAS, 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY OF CONCORD EROSION CONTROL DEPARTMENT.
6. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
7. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
8. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CITY OF CONCORD STANDARDS AND THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
9. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BORROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
10. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
11. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED UNTIL SITE IS STABILIZED.
12. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
13. ALL DISTANCES ARE HORIZONTAL GROUND.
14. ANCHOR SILT FENCE WITH STONE ON TREE PROTECTION ZONES. DO NOT BURY.



MAINTENANCE SCHEDULE:

- 1) ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY STORM EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY REPAIRS OR CLEANING NECESSARY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE COMPLETED IMMEDIATELY.
- 2) ALL SEEDED AREAS SHALL BE REFERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE SEEDING SCHEDULE.

GRAVEL TRAIL INSTALLATION NOTE:
 THE TRAIL LOCATION WILL BE FIELD ADJUSTED, AS NECESSARY, TO AVOID TREE REMOVAL. TREE PROTECTION FENCE WILL BE INSTALLED TO PROTECT EXISTING TREES AS REQUIRED. TRAIL WILL BE GRADED WITH A SUFFICIENT CROSS-SLOPE TO ALLOW STORMWATER TO DRAIN ACROSS THE TRAIL. TRAILS WILL NOT BE GRADED TO ACT AS A FLUME AND CULVERT CROSSINGS WILL BE ADDED AS DEEMED NECESSARY BY THE LANDSCAPE ARCHITECT OR ENGINEER.

STREAM RESTORATION NOTE:
 REFER TO MCDAMMS STREAM RESTORATION PLANS FOR AFTON RUN BUFFER DISTURBANCE AND EROSION CONTROL MEASURES.

TOTAL DENUDED AREA = 13.3 ACRES

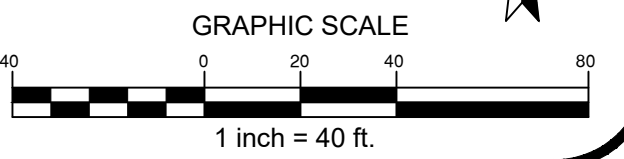
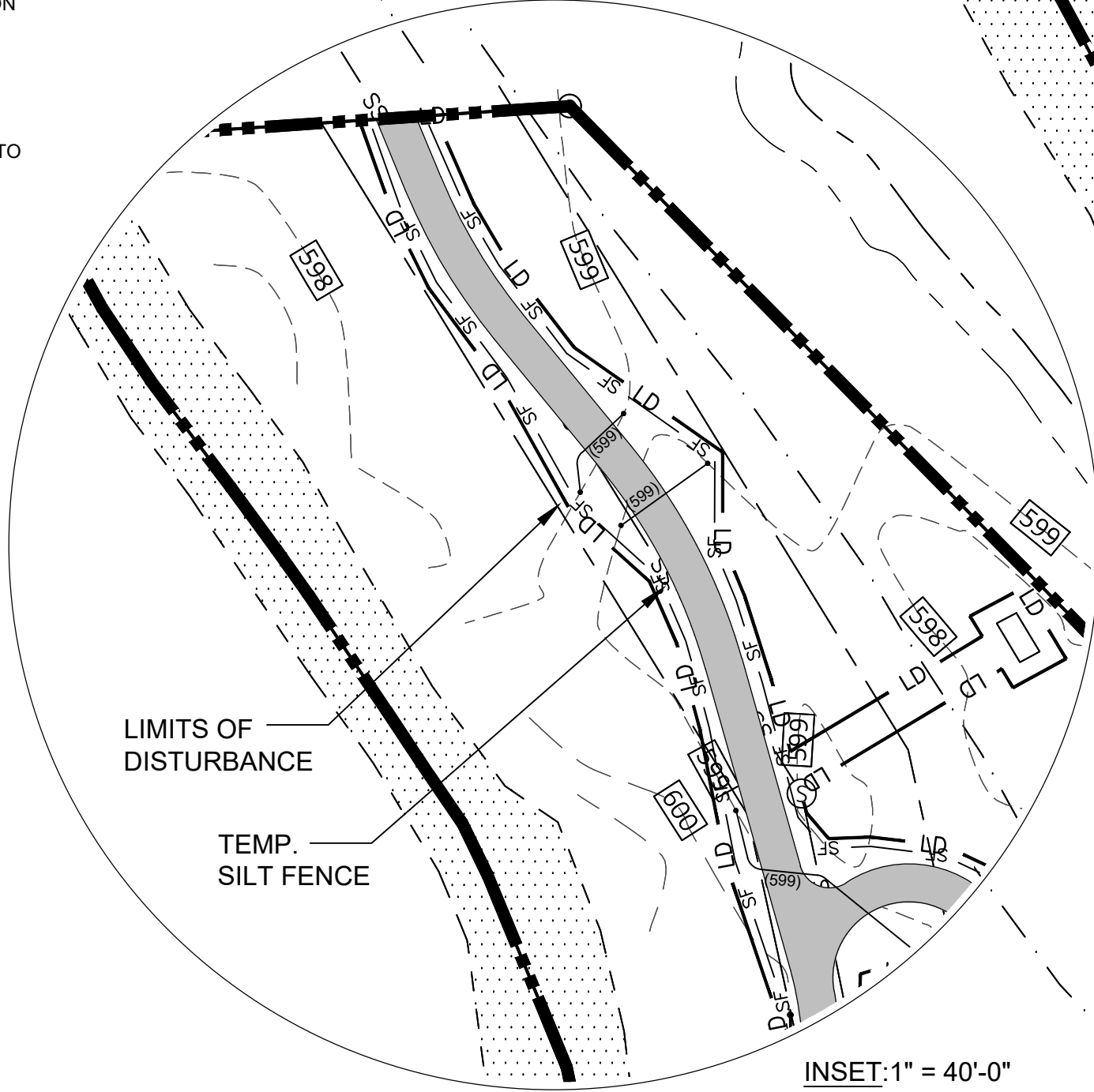
LEGEND

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- LD — PROPOSED LIMITS OF DISTURBANCE
- SF - SF - PROPOSED TEMPORARY SILT FENCE
- SD — EXISTING STORM PIPE
- — — PROPOSED STORM PIPE
- — — PROPOSED CONTOUR
- ⊞ PROPOSED INLET PROTECTION

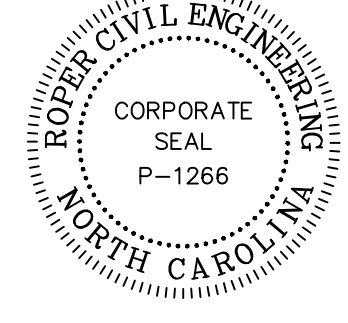
PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-4849) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



ROPER CIVIL ENGINEERING
 3007 Hinsdale Street
 Charlotte, NC 28210
 (T) 704.582.3751



REVISIONS:

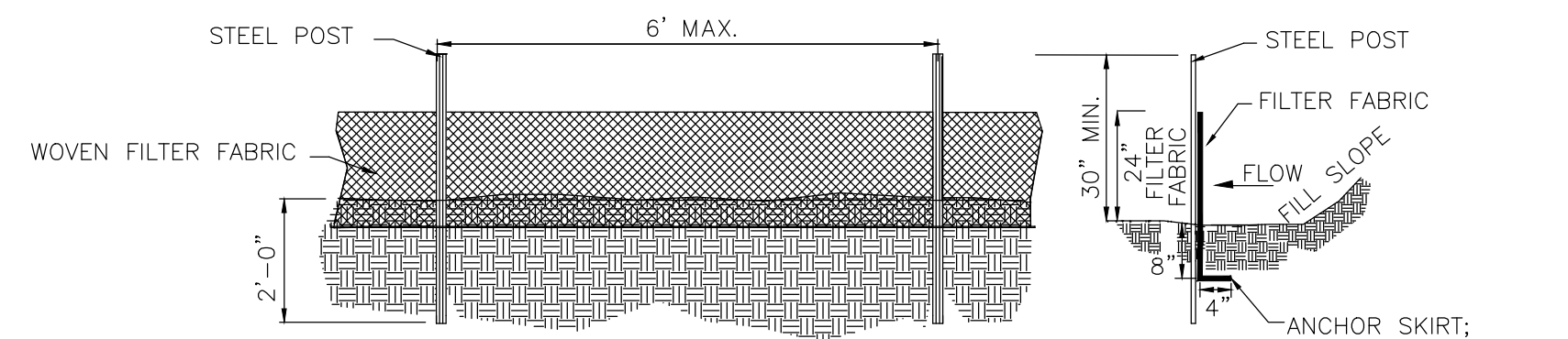
6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRIUS AVE. W
 CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 40'-0"
 DATE: 5-4-23
 SHEET NAME:
PHASE 2 EROSION PLAN
 SHEET NO:
C306



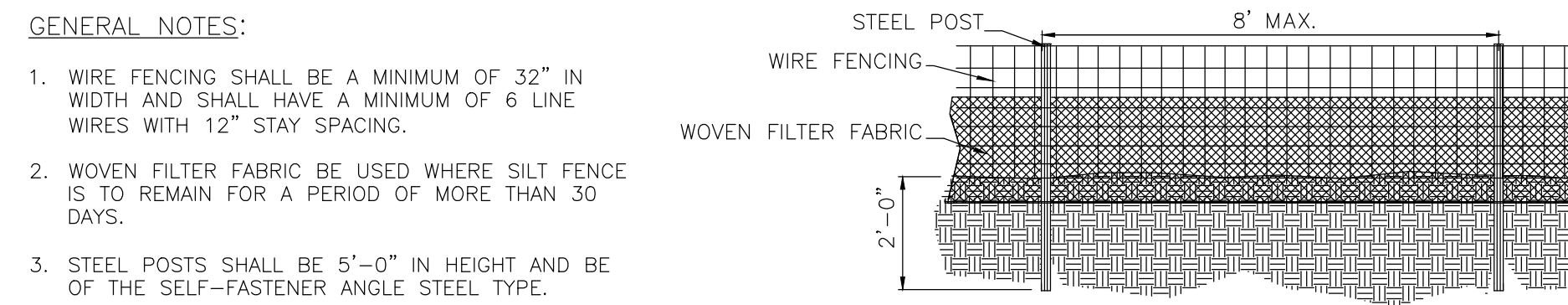
GENERAL NOTES:

- WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
- STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
- TURN SILT FENCE UP SLOPE AT ENDS.
- ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
- DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
- SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

- FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

1 TEMPORARY SILT FENCE
NOT TO SCALE



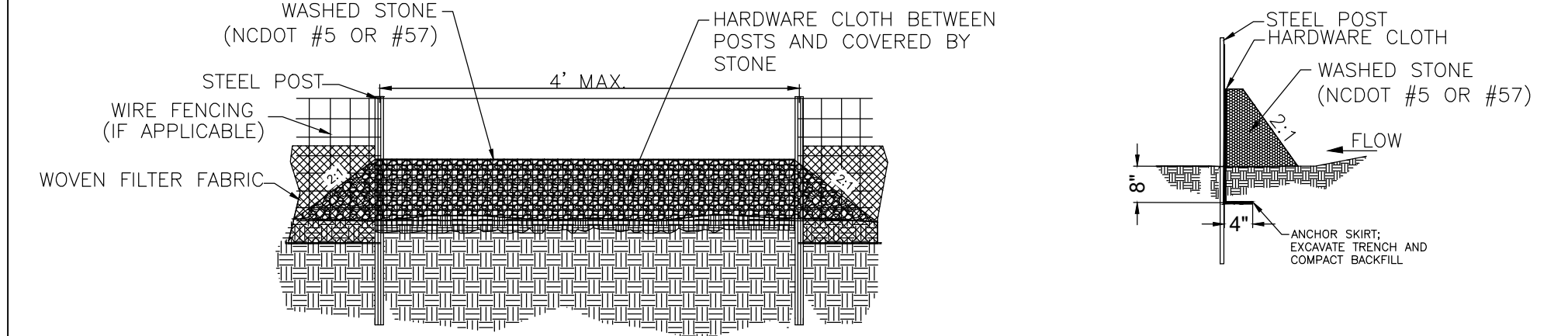
GENERAL NOTES:

- WIRE FENCING SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
- STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
- WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 6" STAY SPACING.
- TURN SILT FENCE UP SLOPE AT ENDS.
- WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
- ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
- DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
- SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

- FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

2 HIGH HAZARD TEMPORARY SILT FENCE
NOT TO SCALE



GENERAL NOTES:

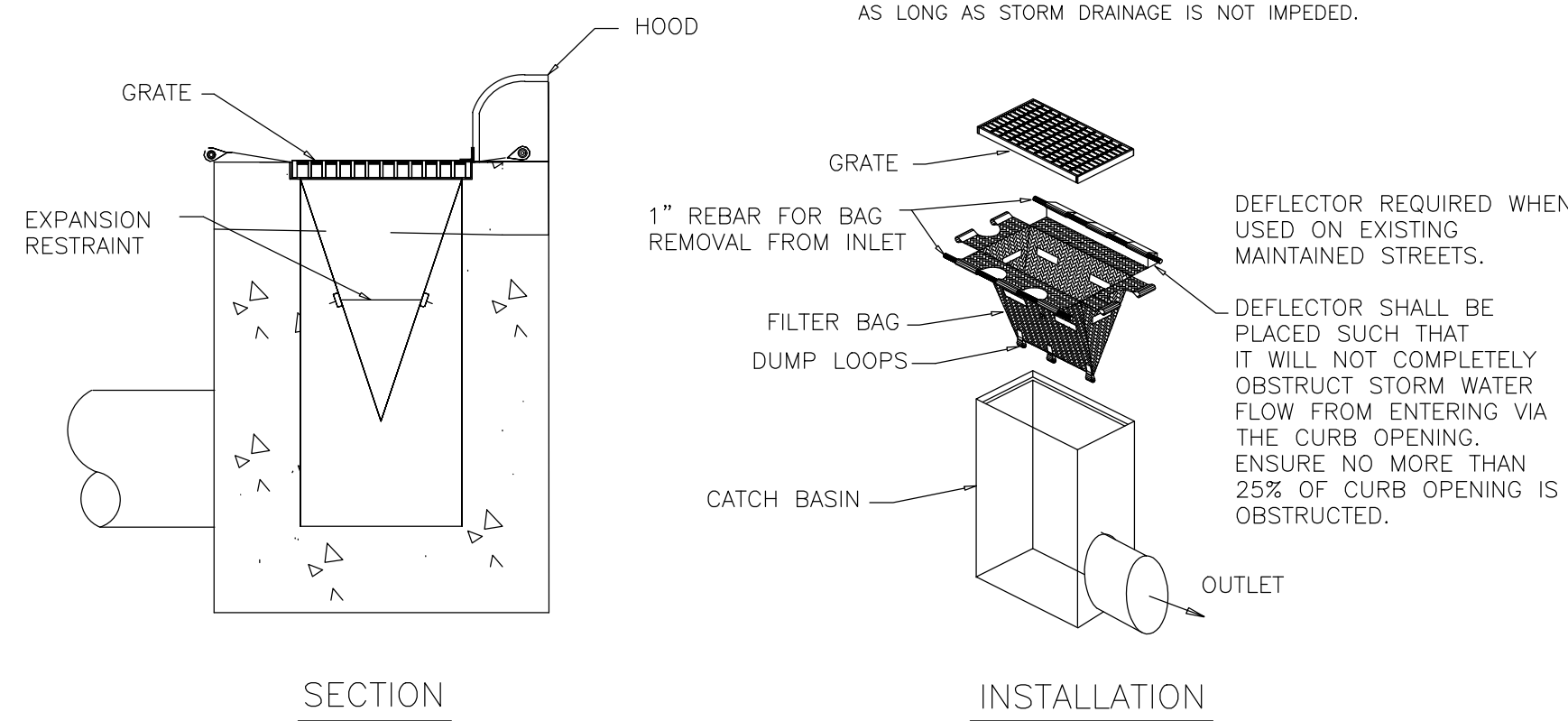
- SEDIMENT FILTER OUTLET AND HARDWARE CLOTH SHALL BE 16 INCHES HIGH BUT NO TALLER THAN 18 INCHES.
- HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEYS IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE SAME AS STD. #30.09 (19 GAUGE, 1/4" SPACING).
- POSTS SHALL BE NO MORE THAN 4 FEET APART.
- SITE OUTLETS AT ANY POINT SMALL CONCENTRATED FLOWS ARE ANTICIPATED AND AT THE DIRECTION OF THE INSPECTOR.

MAINTENANCE NOTES:

- FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
- THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

3 SILT FENCE OUTLET OPTION 2
NOT TO SCALE

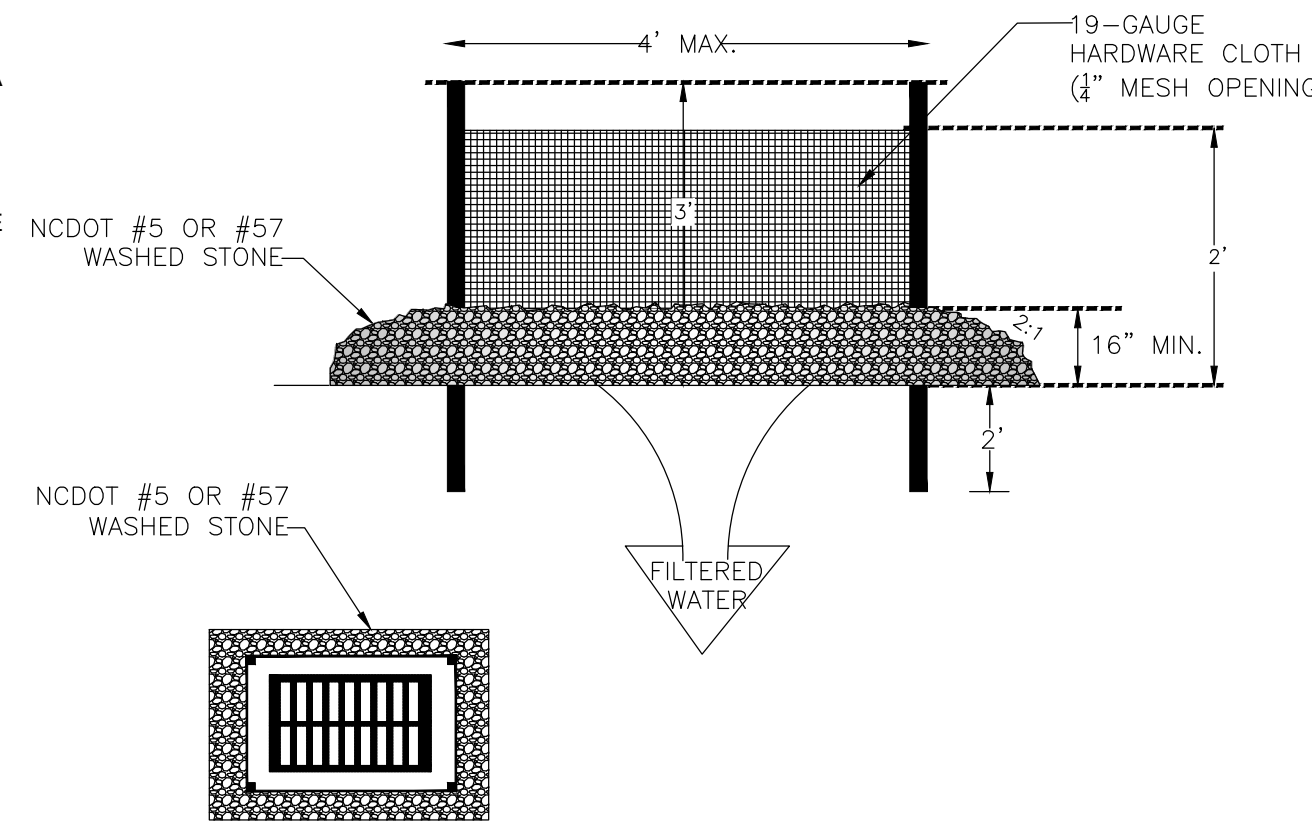
- NOTES:**
- INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
 - FILTER TYPES SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO INSTALLATION.
 - FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
 - FILTER BAGS SHALL BE REMOVED PRIOR TO STREET ACCEPTANCE AND/OR CLOSE OUT OF GRADING PERMIT.
 - FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
 - FILTER BAGS MAY BE INSTALLED IN EXISTING CITY OR NCDOT ROADS AS LONG AS STORM DRAINAGE IS NOT IMPEDED.



4 BLOCK AND GRAVEL STONE INLET PROTECTION
NOT TO SCALE

GENERAL NOTES:

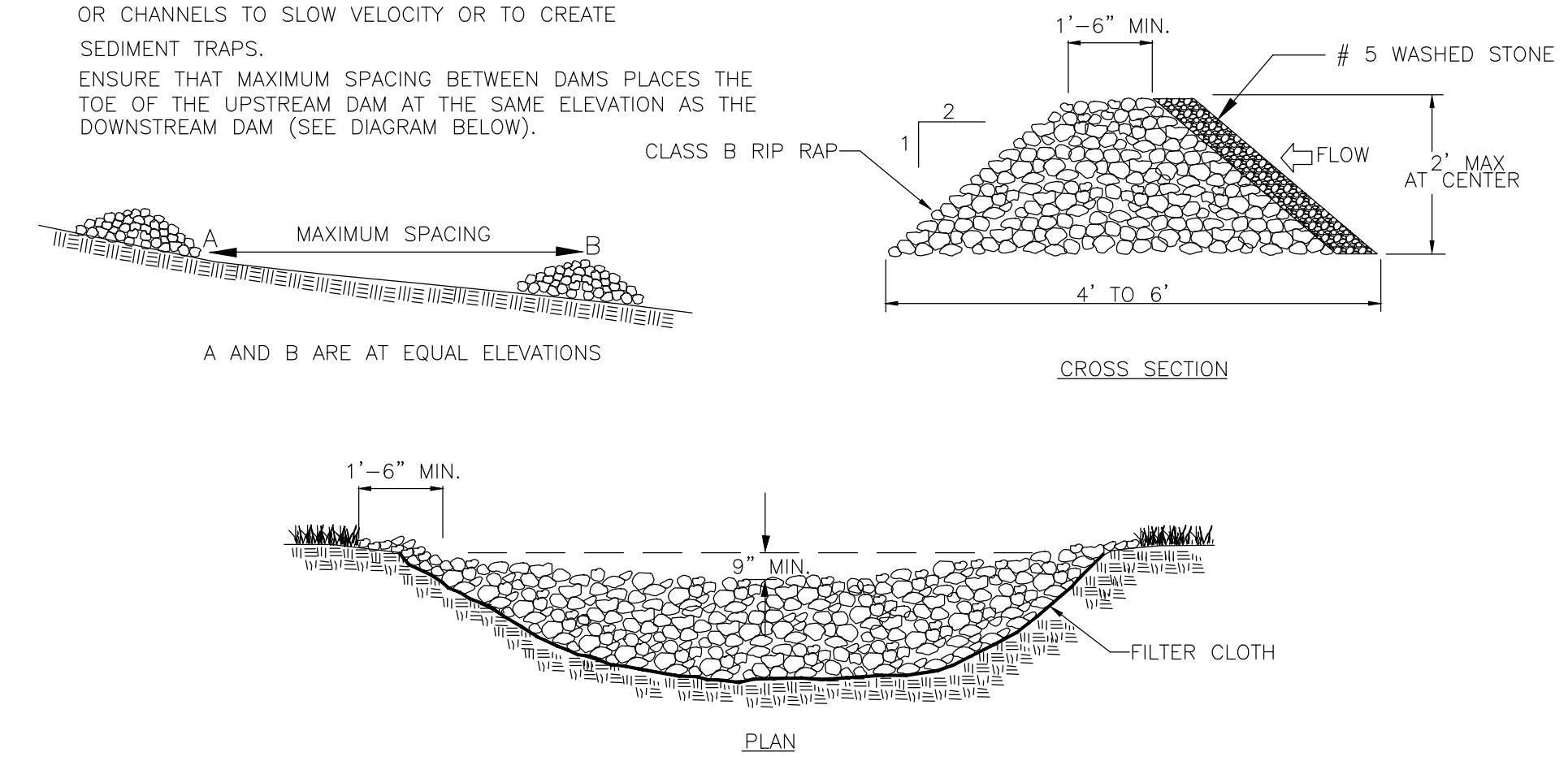
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL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



5 HARDWARE CLOTH AND GRAVEL INLET PROTECTION
NOT TO SCALE

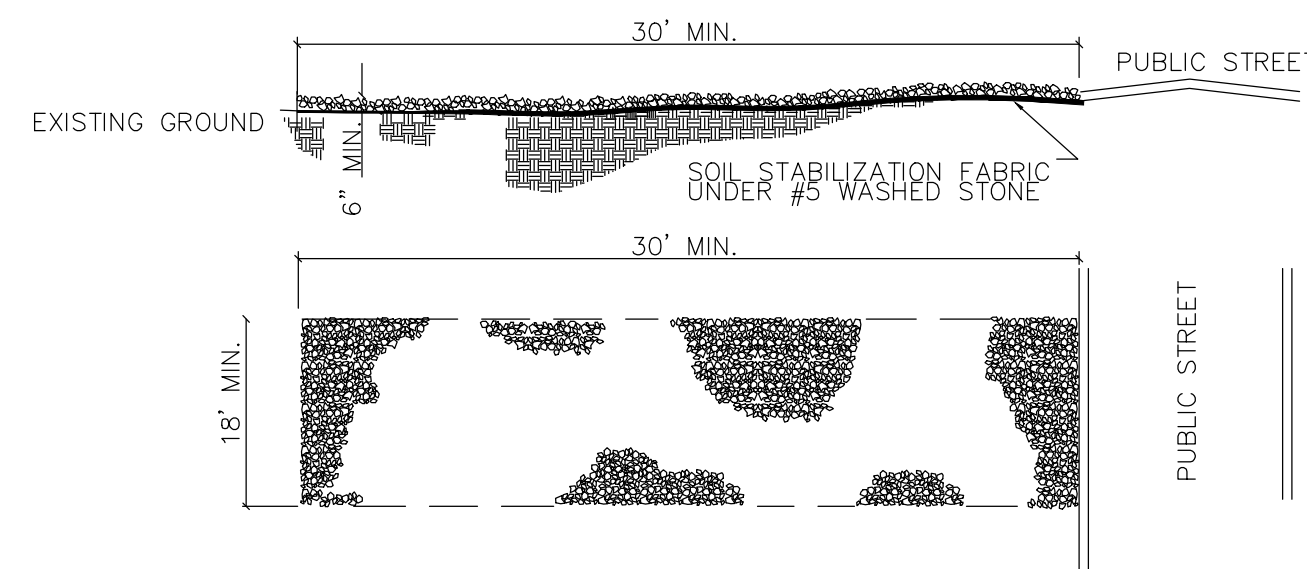
GENERAL NOTES:

- RIPRAP SIZE TO BE DESIGNED BY ENGINEER.
- CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM BELOW).



6 TEMPORARY CHECK DAM
NOT TO SCALE

- NOTES:**
- A STABILIZED ENTRANCE PAD OF #5 WASHED STONE AND RAILROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
 - FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY. ANY AGGREGATE TRACKED INTO THE ROADWAY MUST BE SWEEPED BACK ON SITE ON A NIGHTLY BASIS.
 - WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.



7 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

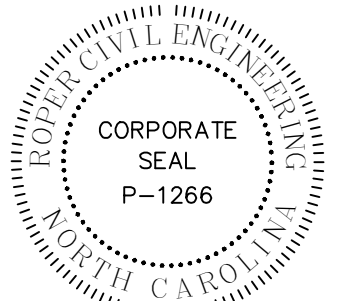
- FOR LATE WINTER AND EARLY SPRING:**
- SEEDING MIXTURE:**
RYE (GRAIN) - 120 LB/ACRE
ANNUAL LESPEDEZA (KOBE) - 50 LB/ACRE
(OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE)
- SEEDING DATES:**
JAN. 1 - MAY 1
- SOIL AMENDMENTS:**
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER
- MULCH:**
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
- MAINTENANCE:**
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
- FOR SUMMER:**
- SEEDING MIXTURE:**
GERMAN MILLET - 40 LB/ACRE
(A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)
- SEEDING DATES:**
MAY 1 - AUG. 15
- SOIL AMENDMENTS:**
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER
- MULCH:**
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
- MAINTENANCE:**
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
- FOR FALL:**
- SEEDING MIXTURE:**
RYE (GRAIN) - 120 LB/ACRE
- SEEDING DATES:**
AUG. 15 - DEC. 30
- SOIL AMENDMENTS:**
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER
- MULCH:**
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
- MAINTENANCE:**
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

8 SEEDING SCHEDULE
NOT TO SCALE

9 RESERVED
NOT TO SCALE

FOR ADDITIONAL INFORMATION, REFER TO NCDOT EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE RATES OF APPLICATION OF LIMESTONE, FERTILIZER, AND SEED, REFER TO NCDOT ESOPDM SECTION 6.11

PERMIT SET



REVISIONS:

CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

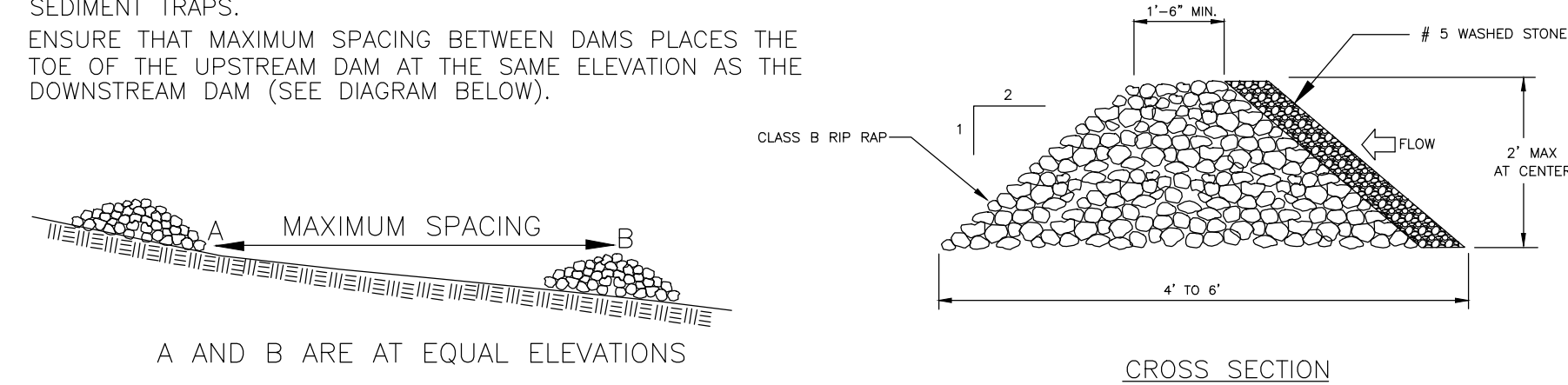
OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME:
ESC DETAILS
SHEET NO:
C307

GENERAL NOTES:

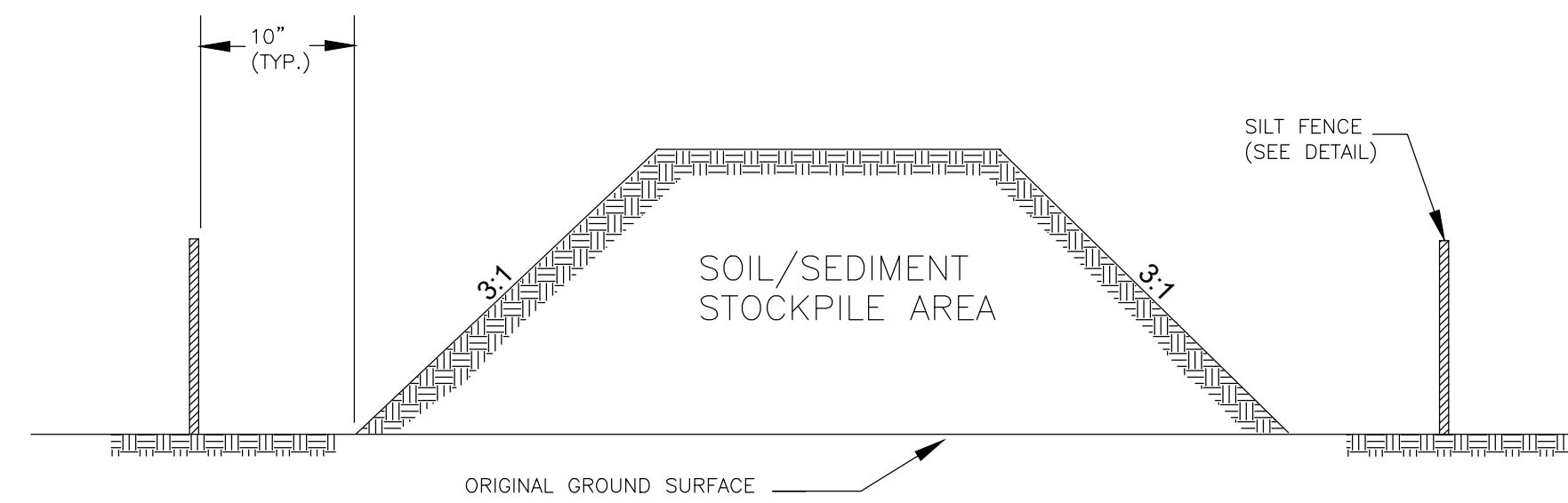
1. RIPRAP SIZE TO BE DESIGNED BY ENGINEER.
2. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
3. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM BELOW).



PLAN

1 TEMPORARY CHECK DAM
NOT TO SCALE

TEMPORARY STOCKPILE AREA



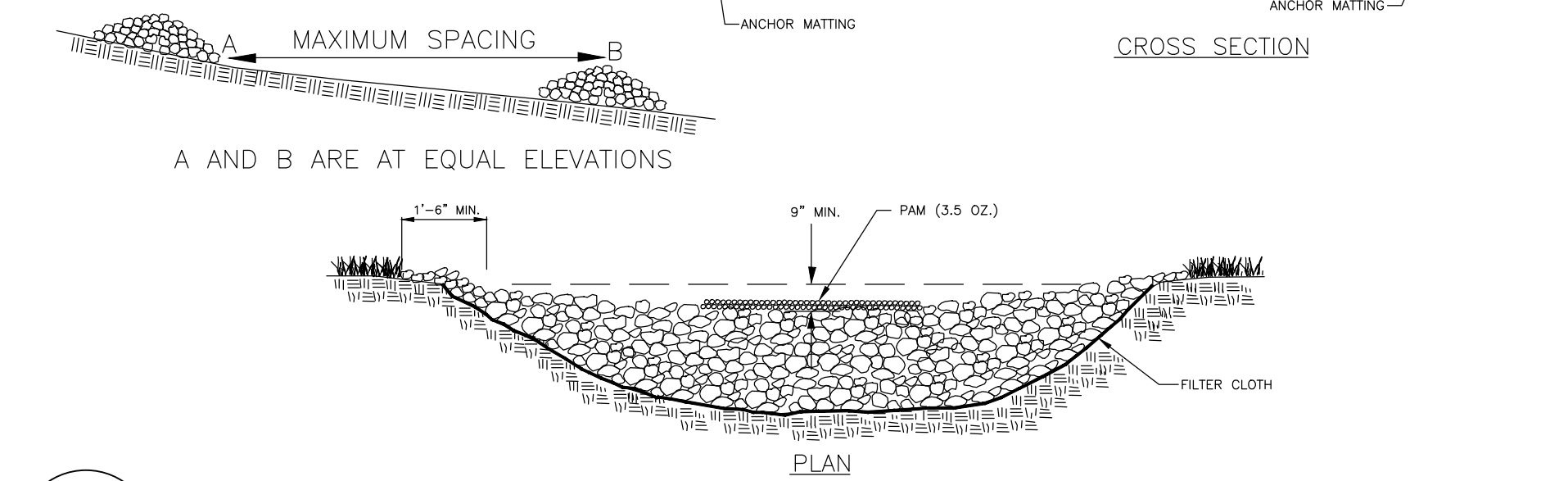
NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

2 TEMPORARY STOCKPILE
NOT TO SCALE

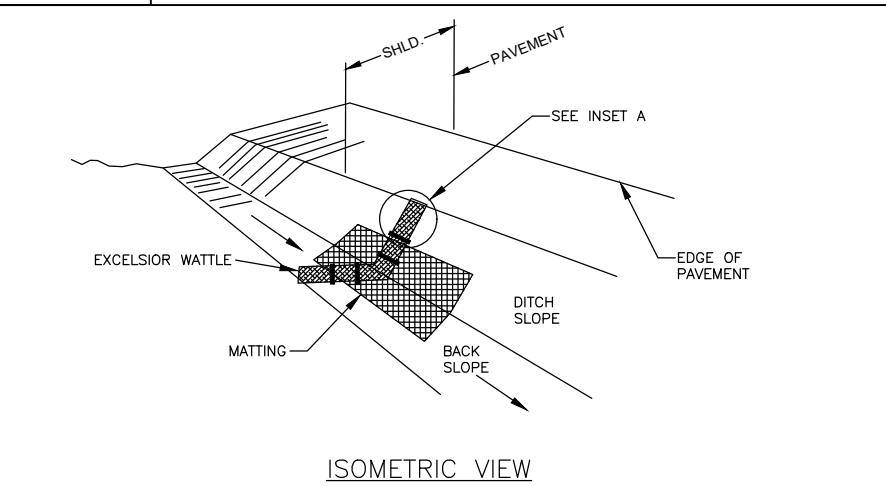
GENERAL NOTES:

1. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
2. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM BELOW).
3. COIR MATTING SHALL BE SUBSTITUTED FOR EXCELSIOR MATTING IN HIGH FLOW AREAS.
4. INITIALLY APPLY 3.50 OUNCES OF POLYACRYLAMIDE (PAM) TO THE FACE AND TOP OF THE CHECK DAM AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.
5. ONLY PAMS THAT PASS THE CHRONIC TOXICITY TESTING REQUIREMENTS, ESTABLISHED BY NCDWQ, MAY BE USED.
6. A SEDIMENT BASIN OR SIMILAR STRUCTURE BETWEEN THE APPLICATION POINT OF PAMS AND SURFACE WATERS IS REQUIRED.
7. SUPPLIER TO DETERMINE APPROPRIATE PAM BASED ON SOIL TYPE.



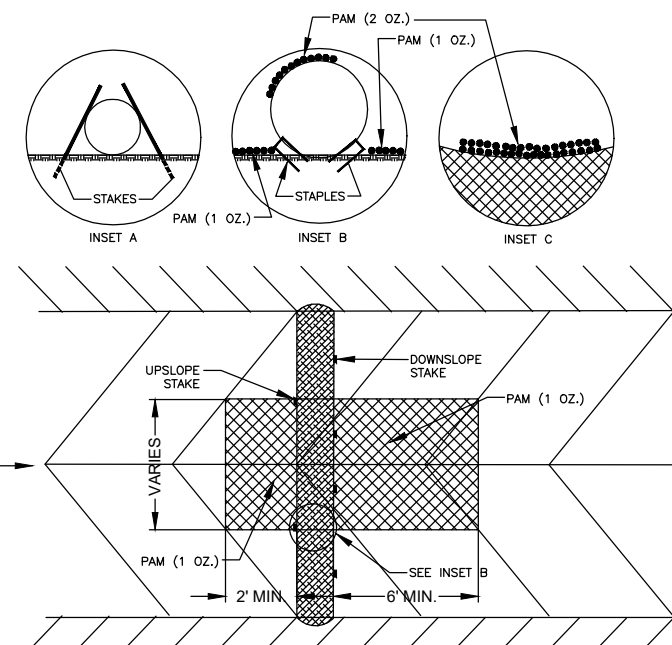
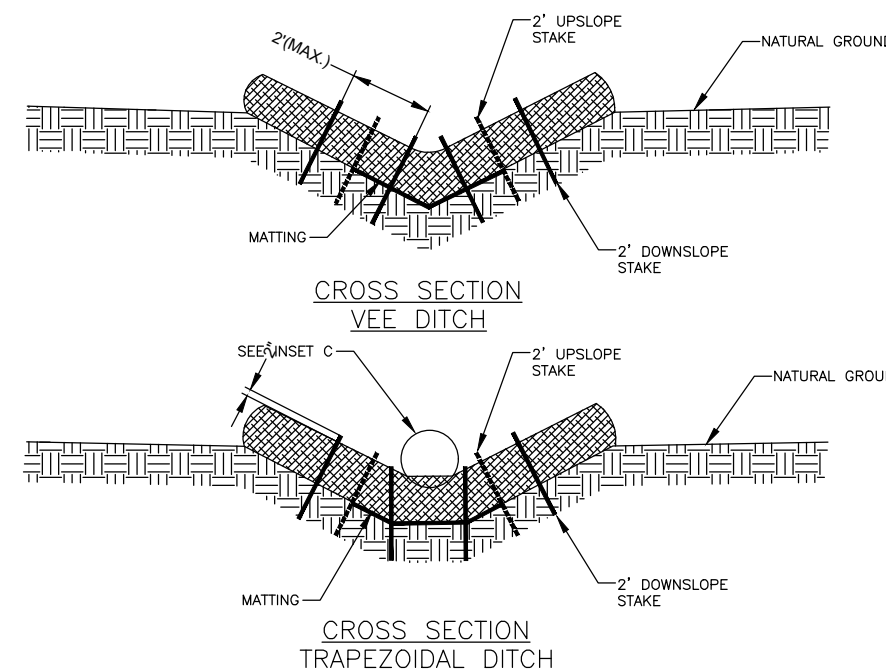
PLAN

3 TEMP. ROCK CHECK DAM WITH MATTING AND PAM
NOT TO SCALE



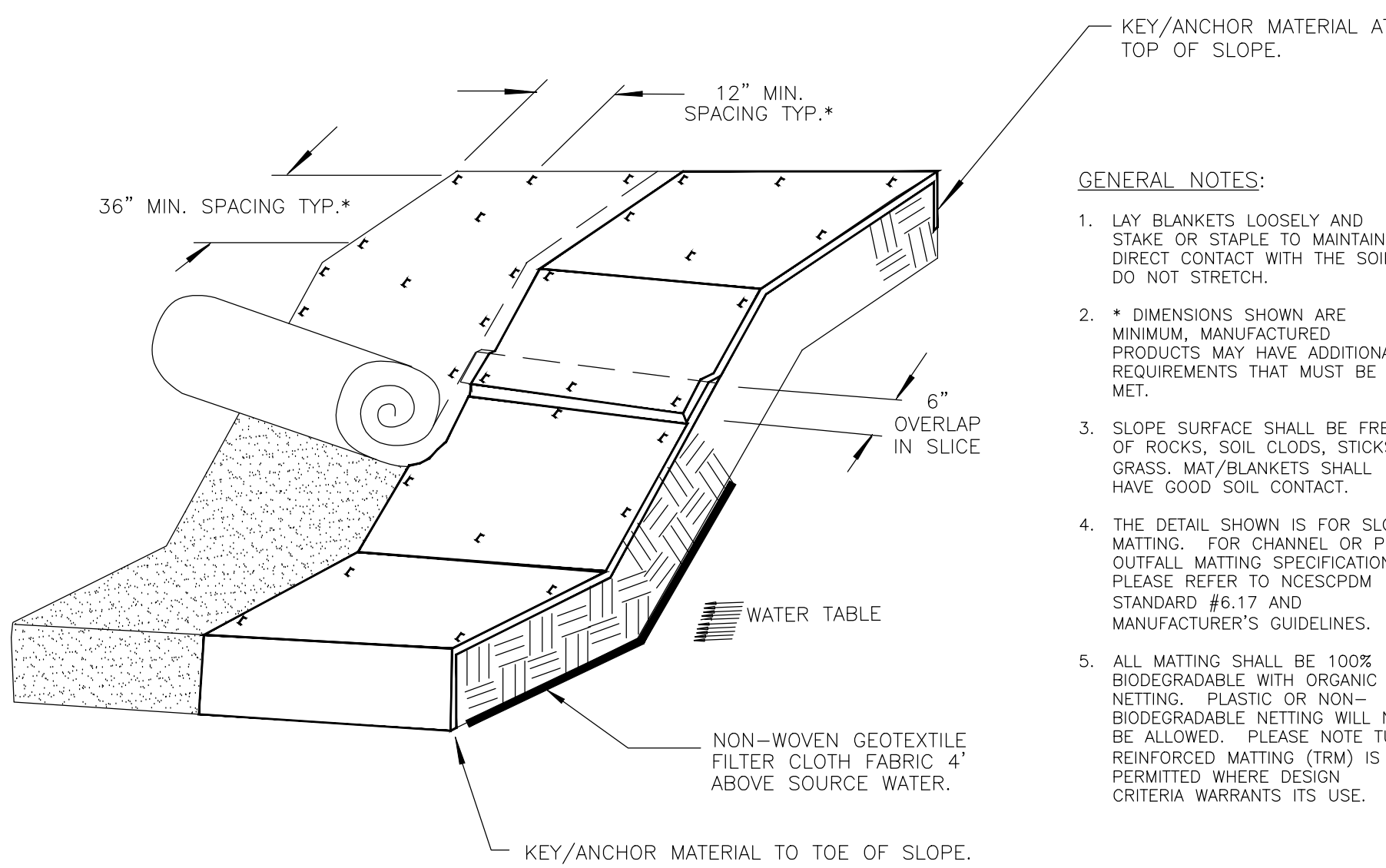
GENERAL NOTES:

1. USE MINIMUM 12 INCH DIAMETER FIBER WATTLE.
2. USE 2 FT. WOODEN STAKES WITH A 2 IN. X 2 IN. NOMINAL CROSS SECTION.
3. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
4. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
5. PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12\"/>



GENERAL NOTES:

1. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
2. * DIMENSIONS SHOWN ARE MINIMUM. MANUFACTURED PRODUCTS MAY HAVE ADDITIONAL REQUIREMENTS THAT MUST BE MET.
3. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLODS, STICKS, GRASS. MAT/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
4. THE DETAIL SHOWN IS FOR SLOPE MATTING. FOR CHANNEL OR PIPE OUTFALL MATTING SPECIFICATIONS, PLEASE REFER TO NCSOCDPM STANDARD #6.17 AND MANUFACTURER'S GUIDELINES.
5. ALL MATTING SHALL BE 100% BIODEGRADABLE WITH ORGANIC NETTING. PLASTIC OR NON-BIODEGRADABLE NETTING WILL NOT BE ALLOWED. PLEASE NOTE TURF REINFORCED MATTING (TRM) IS PERMITTED WHERE DESIGN CRITERIA WARRANTS ITS USE.



5 EMBANKMENT MATTING DETAIL
NOT TO SCALE

6 RESERVED
NOT TO SCALE

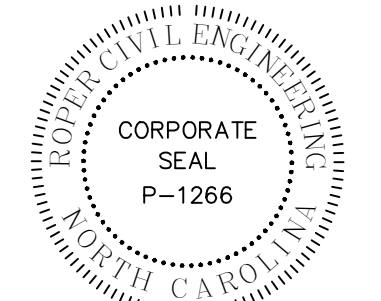
4 TEMP. WATTLE CHECK DAM WITH MATTING AND PAM
NOT TO SCALE

7 RESERVED
NOT TO SCALE

8 RESERVED
NOT TO SCALE

9 RESERVED
NOT TO SCALE

PERMIT SET



REVISIONS:

CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 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 NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated 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

Required Ground Stabilization Timeframes

Site Area Description	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

Note: 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 Rolled 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 Shrubs 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 Rolled 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 no 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

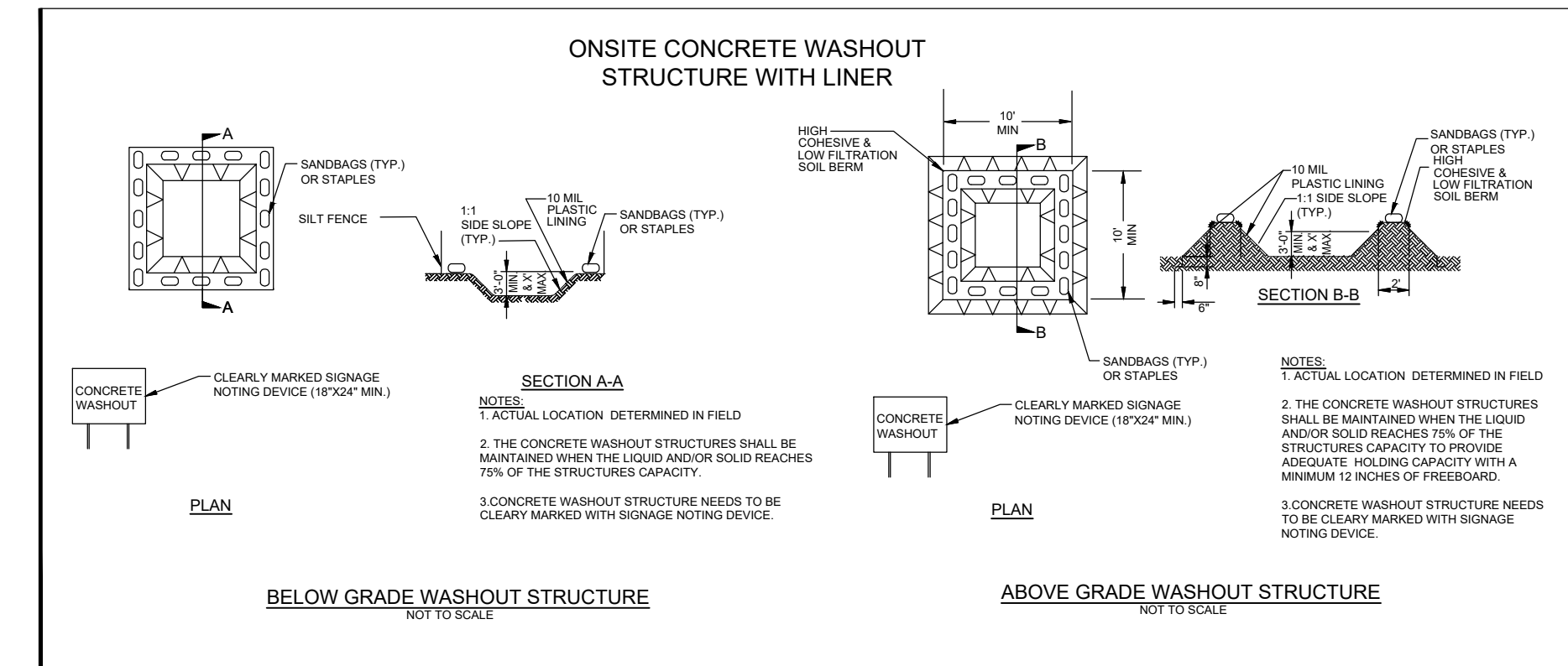
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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 removed from project.
- 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.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

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.

REVISIONS:

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

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. In addition, when 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 Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

**PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - 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).
- Releases 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. 143-215.85.
- 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

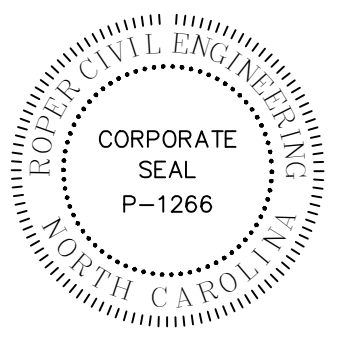
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PERMIT SET



REVISIONS:

CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

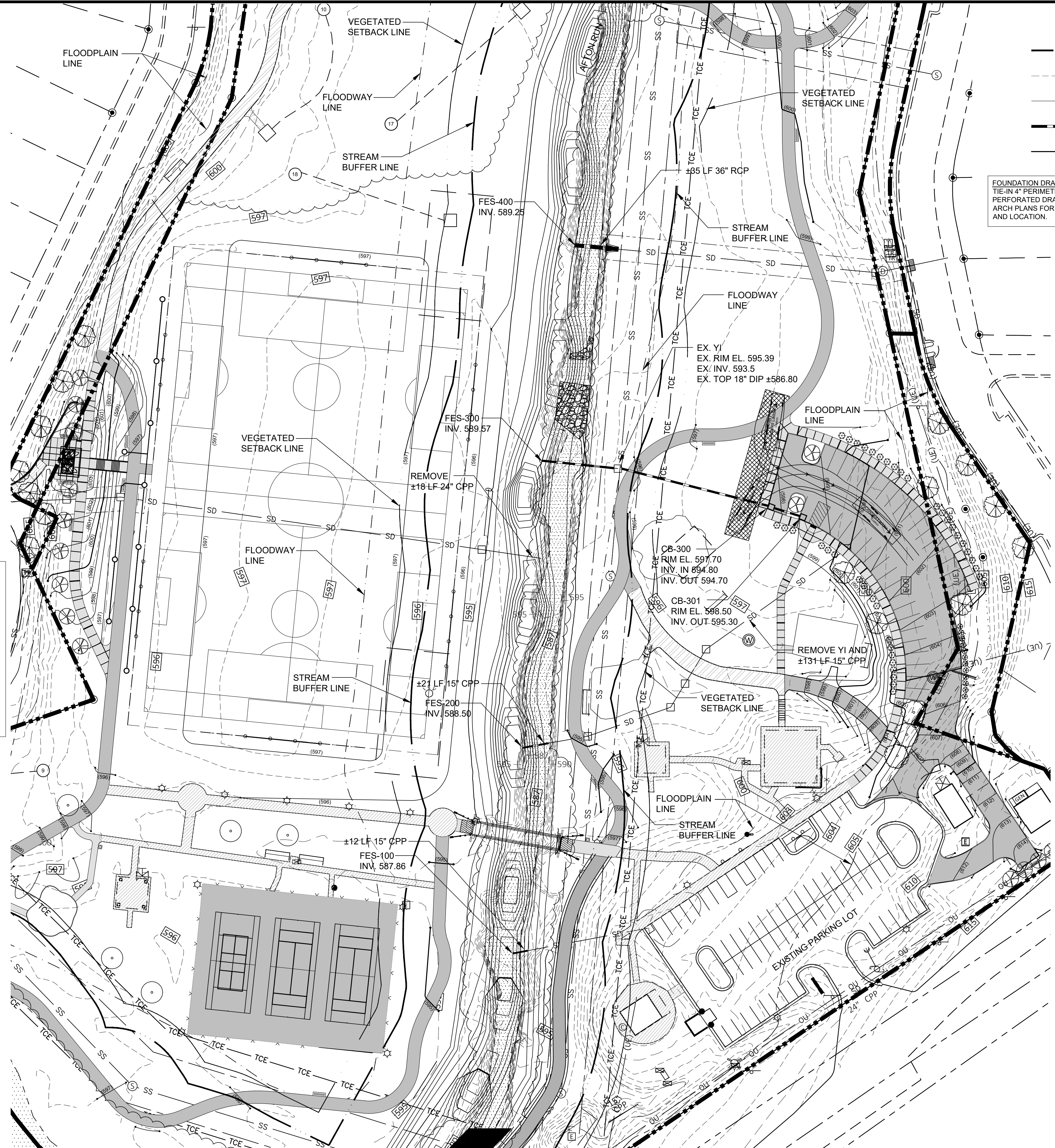
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DATE: 5-4-23
SHEET NAME:
ESC DETAILS
SHEET NO:
C310

GENERAL DRAINAGE NOTES:

1. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE CITY OF CONCORD, NCDOT STANDARD DETAILS, AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. THE PURPOSE OF THE STORM DRAINAGE EASEMENT IS TO PROVIDE STORM WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM WATER IS PROHIBITED.
3. PROPOSED ELEVATIONS ARE TO THE EDGE OF PAVEMENT.
4. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON ALL PAVEMENT.
5. CURB AND GUTTER SHOWN ON PLANS MAY BE ADJUSTED BASED UPON FIELD STAKING BY ENGINEER OR LANDSCAPE ARCHITECT. STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED ON FIELD CONDITIONS.
6. ALL STORM PIPE 15" DIA. OR GREATER SHALL BE RCP. ALL YARD INLETS CONNECTED TO 15" DIA. OR GREATER PIPE SHALL BE STANDARD BRICK OR PRECAST DROP TYPE INLETS. RIM ELEVATIONS GIVEN ON PLANS FOR YARD INLETS REFER TO TOP OF GRATE.
7. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
8. RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SAFETY DEVICES FOR THE PROTECTION OF THE PUBLIC, THE WORKERS, AND GENERAL PROTECTION OF THE WORK SHALL REST WITH THE CONTRACTOR DOING THE WORK.
9. PROPOSED CONTOURS SHOWN ARE TO THE TOP PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED.
10. GRADING CONTRACTORS SHALL NOTIFY AND COOPERATE WITH ALL UTILITY PROVIDERS BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTORS SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.
11. THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES.
12. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO OWNER.
13. GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCE OR RULES.
14. CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS AS RESULT OF HIS WORK.
15. ALL LINEAR FOOTAGE FOR FOR ALL UTILITY PIPES ARE APPROXIMATE; ACTUAL INSTALLED QUANTITIES MAY VARY.

WSACC NOTES:

1. WATER AND SEWER AUTHORITY OF CABARRUS COUNTY (WSACC) REQUESTS 48-HOUR NOTICE PRIOR TO ANY OF THE FOLLOWING, BUT NOT LIMITED TO, ACTIVITIES:
 - GRADING MODIFICATIONS AND OR EXCAVATIONS WITHIN THE SUBJECT SEWER EASEMENTS, WHICH EITHER:
 - a. EXPOSE AND/OR REDUCE COVER FROM EXISTING WSACC SEWER PIPES TO LESS THAN 2 VERTICAL FEET; OR
 - b. GENERALLY CHANGE THE WSACC EASEMENT CONTOURS GREATER THAN 2 VERTICAL FEET.
 - SUBSURFACE PLACEMENT OF STRUCTURAL OR UTILITY INSTALLATIONS, WHICH GENERALLY INCLUDES THE INSTALLATION OF STRUCTURAL H-PILES, AND INSTALLATION OF STORMWATER INFRASTRUCTURE.
 - ANY PROJECT RELATED SANITARY FACILITIES THAT CONNECT TO THE WSACC SEWER SYSTEM
2. NOTIFY MARK LOMAX, WSACC CONSTRUCTION PROJECT MANAGER AT (704)786-1783 EXT. 231



LEGEND

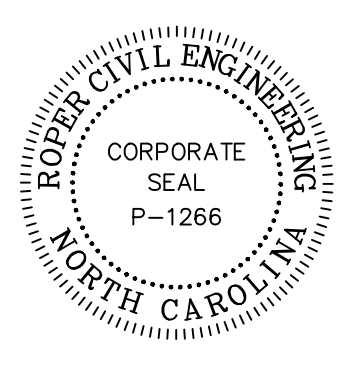
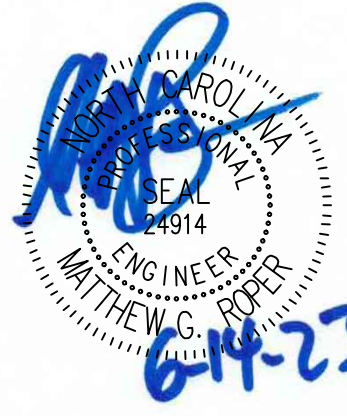
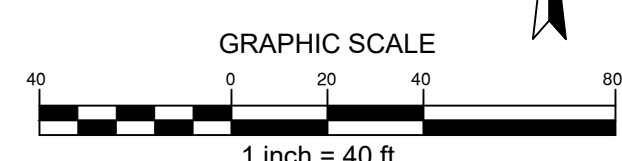
- PROPERTY LINE
- - - EXISTING CONTOUR
- SD- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED CONTOUR

FOUNDATION DRAIN NOTE:
TIE-IN 4" PERIMETER SLAB DRAIN AT BUILDING FOUNDATION TO PERFORMED DRAINAGE UNDER THE EXISTING FIELD. REFER TO ARCH PLANS FOR FOUNDATION PERIMETER SLAB DRAIN DETAIL AND LOCATION.

PERMIT SET



CONTRACTOR SHALL NOTIFY NORTH CAROLINA CALL 811 OR (1-800-432-0499) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA CALL".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



REVISIONS:

5-14-2023	ADDENDUM 1
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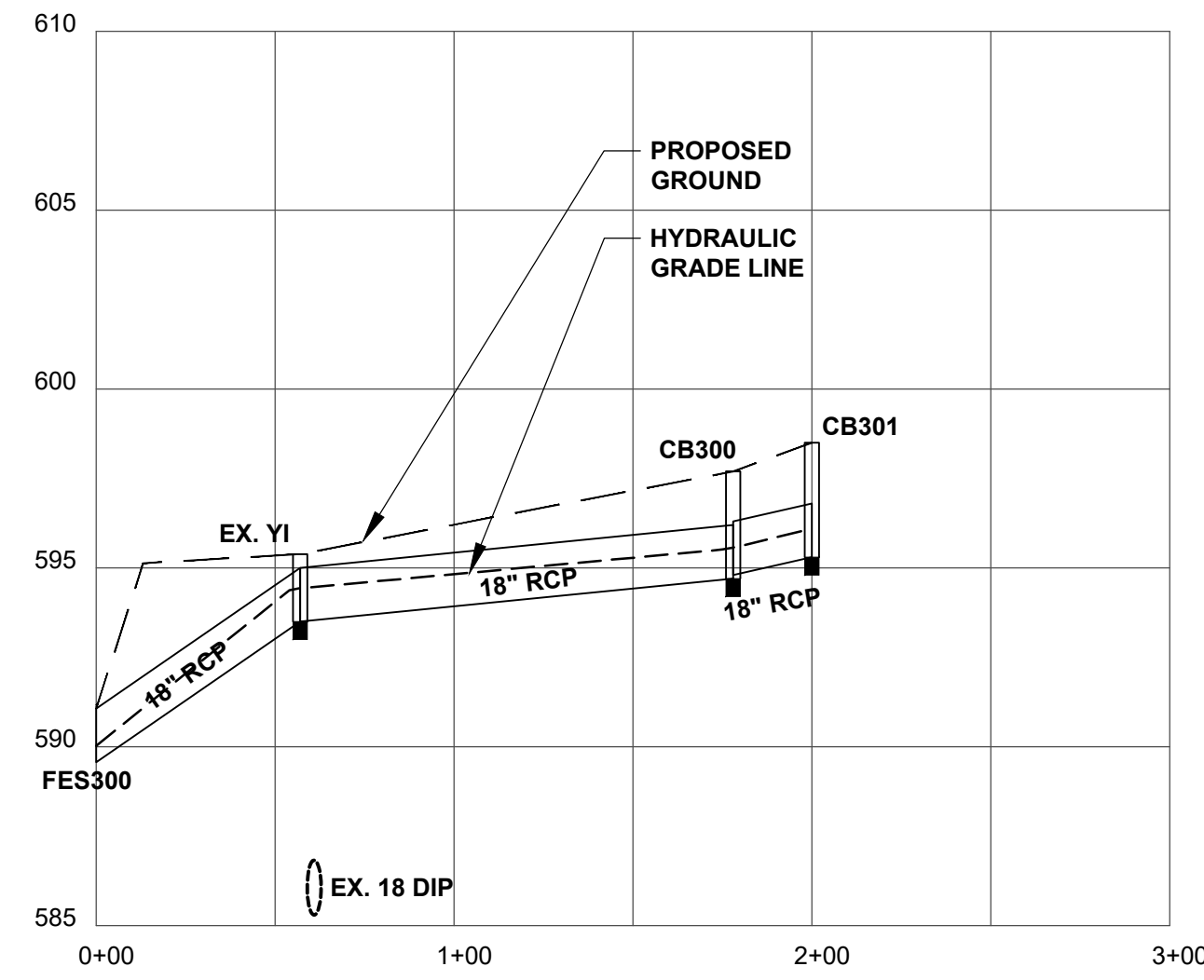
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 40'-0"
DATE: 5-4-23
SHEET NAME:
STORM DRAINAGE PLAN
SHEET NO:
C400

CB104 - FES100



STORMCHART-300 PROPOSED 10-YR

LINE ID	D.A. (AC)	RIM EL. (FT)	INV. UP (FT)	INV. DN (FT)	Q (CFS)	CAPACITY (CFS)	VELOCITY (FT/SEC)	LENGTH (FT)	SLOPE (%)	PIPE SIZE (IN)
EX YI-FES300	0.30	595.39	593.50	589.57	5.3	27.6	8.2	57.0	6.89	18
CB300-EX YI	0.15	597.70	594.70	593.50	4.6	10.5	4.3	121.0	0.99	18
CB301-CB300	0.65	598.50	595.30	594.80	3.7	15.8	4.2	22.0	2.27	18

YI=YARD INLET
 CB=CATCH BASIN
 FES=FLARED END SECTION

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

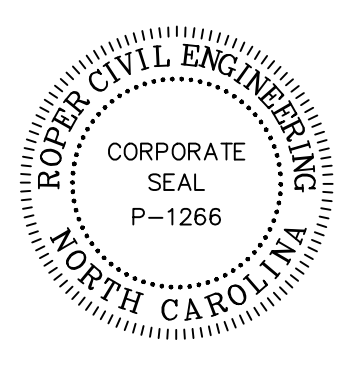
GRAPHIC SCALE IN FEET



HORIZ.



VERT.



REVISIONS:

6-14-2023	ADDENDUM 1
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OWNER:
CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 50'-0"
 DATE: 5-4-23
 SHEET NAME:
STORM PROFILES
 SHEET NO:
C401

DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
300.01	METHOD OF PIPE INSTALLATION - METHOD A	
310.02	PARALLEL PIPE END SECTION - PRECAST CONCRETE FOR 15" TO 24" PIPE	REQUIRED IN RIGHT OF WAY WITHIN THE ETJ
310.03	CROSS PIPE END SECTION - PRECAST CONCRETE FOR 18" TO 30" PIPE	REQUIRED IN RIGHT OF WAY WITHIN THE ETJ
310.10	DRIVEWAY PIPE CONSTRUCTION USING NO SPECIAL END SECTIONS	ONLY AT LOCATIONS APPROVED BY THE COUNTY ENGINEER
615.03	PIPE UNDERDRYAN AND BLIND DRAIN	
616.03	GEOTEXTILE SHOULDER DRAIN	
838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 15" THRU 48" PIPE 90° SKEW	NOTE 1
838.02	CONCRETE ENDWALL AND SLUICE GATE 15" THRU 36" PIPE - 90° SKEW	NOTE 1
838.04	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 17'X13" THRU 71'X47" PIPE ARCH 90° SKEW	NOTE 1
838.05	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 18" THRU 48" PIPE	NOTE 1
838.06	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 17'X13" THRU 71'X47" PIPE ARCH	NOTE 1
838.07	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 40'X31" THRU 66'X51" PIPE ARCH 90° SKEW	NOTE 1
838.08	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 40'X31" THRU 66'X51" PIPE ARCH	NOTE 1
838.10	CONCRETE ENDWALL FOR OUTFALL 4", 6" OR 8" PIPE	NOTE 1
838.11	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 15" THRU 48" PIPE 90° SKEW	
838.14	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 17'X13" THRU 71'X47" PIPE ARCH 90° SKEW	
838.15	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE	
838.16	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 17'X13" THRU 71'X47" PIPE ARCH	
838.17	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 40'X31" THRU 66'X51" PIPE ARCH 90° SKEW	
838.18	BRICK ENDWALL FOR SINGLE PIPE CULVERTS 40'X31" THRU 66'X51" PIPE ARCH	
838.20	BRICK ENDWALL FOR OUTFALL 4", 6" OR 8" PIPE	
838.21	REINFORCED CONCRETE ENDWALL FOR SINGLE 54" PIPE 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.22	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 54" PIPES 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.27	REINFORCED CONCRETE ENDWALL FOR SINGLE 60" PIPE 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.28	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 60" PIPES 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.33	REINFORCED CONCRETE ENDWALL FOR SINGLE 66" PIPE 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.34	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 66" PIPES 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.39	REINFORCED CONCRETE ENDWALL FOR SINGLE 72" PIPE 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD
838.40	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 72" PIPES 90° SKEW	NOTE 1 SEE MCLDS 20.17 FOR SPLASH PAD

NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE COUNTY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL PROJECTS.
APPROVED DATE: 02/2007

DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
838.43	NOTES FOR REINFORCED CONCRETE ENDWALL STANDARD DRAWINGS	
838.51	REINFORCED BRICK ENDWALL FOR SINGLE 54" PIPE 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.52	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 54" PIPES 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.57	REINFORCED BRICK ENDWALL FOR SINGLE 60" PIPE 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.58	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 60" PIPES 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.63	REINFORCED BRICK ENDWALL FOR SINGLE 66" PIPE 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.64	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 66" PIPES 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.69	REINFORCED BRICK ENDWALL FOR SINGLE 72" PIPE 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.70	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 72" PIPES 90° SKEW	SEE MCLDS 20.17 FOR SPLASH PAD
838.75	NOTES FOR REINFORCED BRICK ENDWALL STANDARD DRAWINGS 838.51 THRU 838.70	SEE MCLDS 20.17 FOR SPLASH PAD
838.80	PRECAST CONCRETE ENDWALLS FOR SINGLE 12" THRU 72" PIPE 90° SKEW	
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES	
840.01	BRICK CATCH BASIN 12" THRU 54" PIPE	
840.02	CONCRETE CATCH BASIN 12" THRU 54" PIPE	
840.03	FRAME, GRATES AND HOOD FOR USE ON STANDARD BASIN 12" THRU 54" PIPE	TYPE F AND G GRATES ARE OPTIONAL WITHIN THE TOWN LIMITS
840.04	CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE	NOTE 1 - OPENINGS PERMITTED IN 4 SIDES OUTSIDE OF STREET R/W
840.05	BRICK OPEN THROAT CATCH BASIN 12" THRU 48" PIPE	MANHOLE RING AND COVER REQUIRED IN TOP SLAB SEE STD. 840.54
840.06	CONCRETE DROP INLET 12" THRU 30" PIPE	NOTE 1
840.07	CONCRETE GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	NOTE 1
840.08	CONCRETE GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	NOTE 1
840.09	FRAMES AND WIDE SLOT FLAT GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.10	FRAMES AND NARROW SLOT FLAT GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.11	ANCHORAGE FOR FRAMES BRICK OR CONCRETE	
840.12	BRICK GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	
840.13	BRICK GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	
840.14	FRAMES AND WIDE SLOT FLAT GRATES	
840.15	FRAMES AND NARROW SLOT FLAT GRATES	
840.16	DRIVEWAY DROP INLET	

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APPROVED DATE: 02/2007

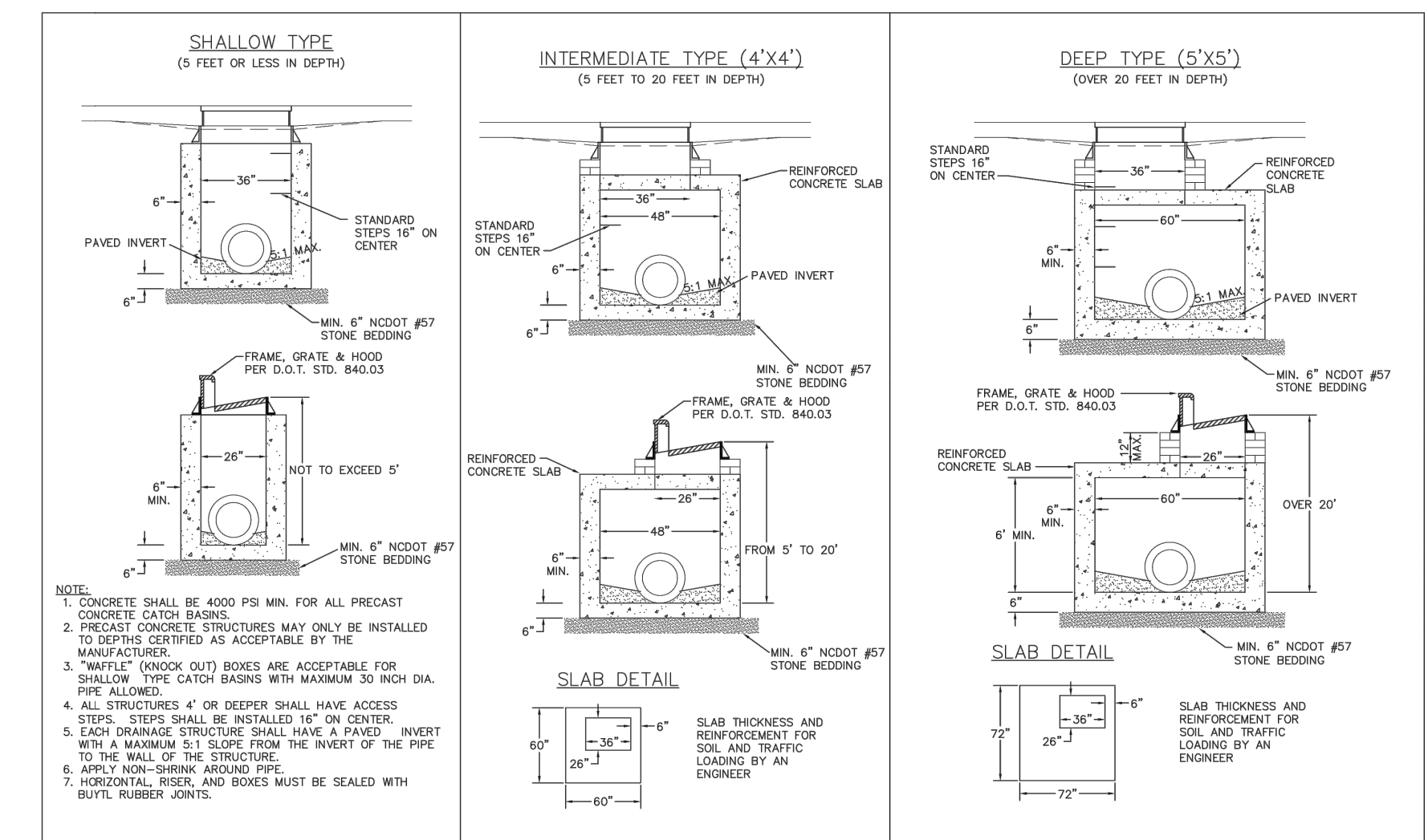
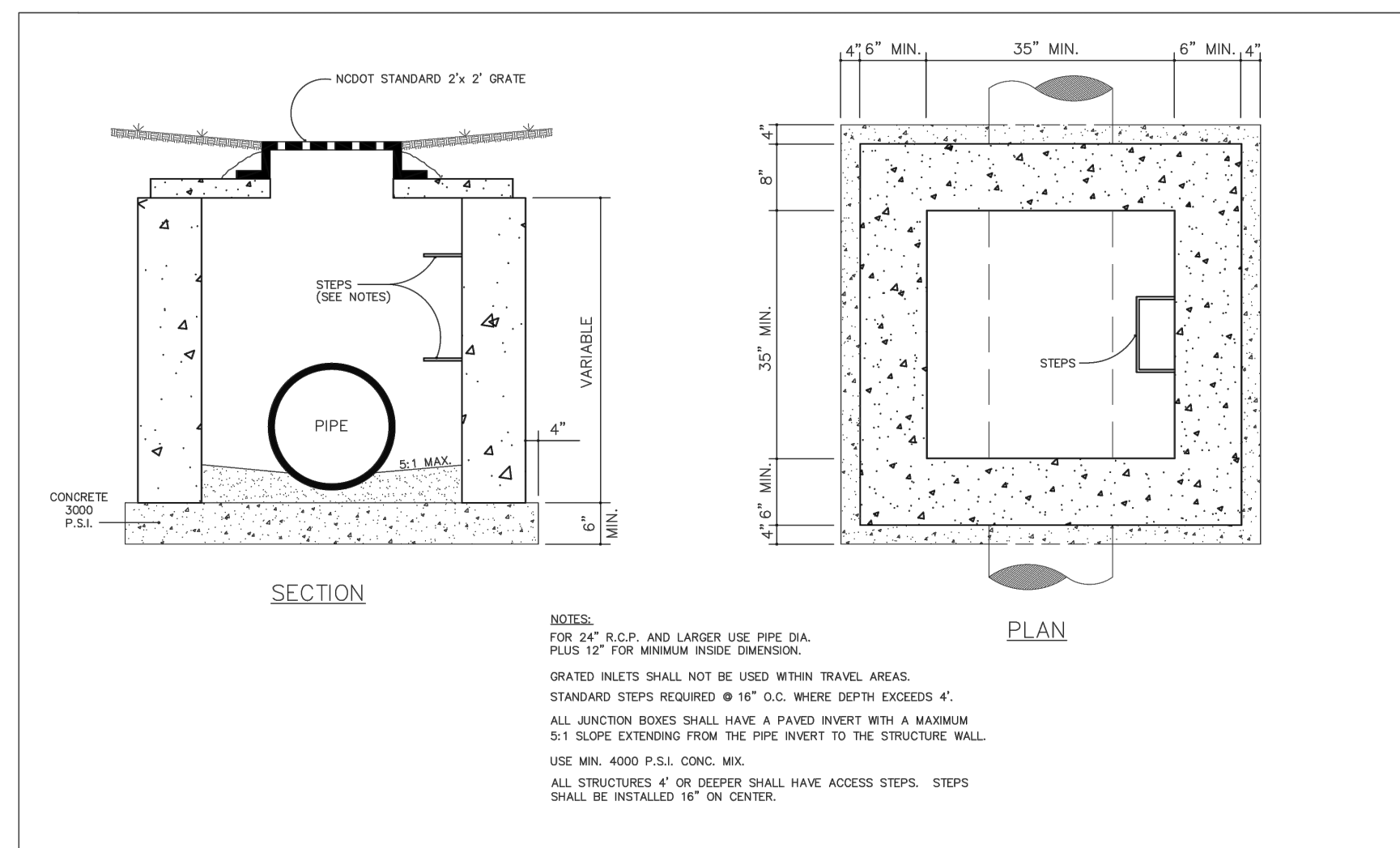
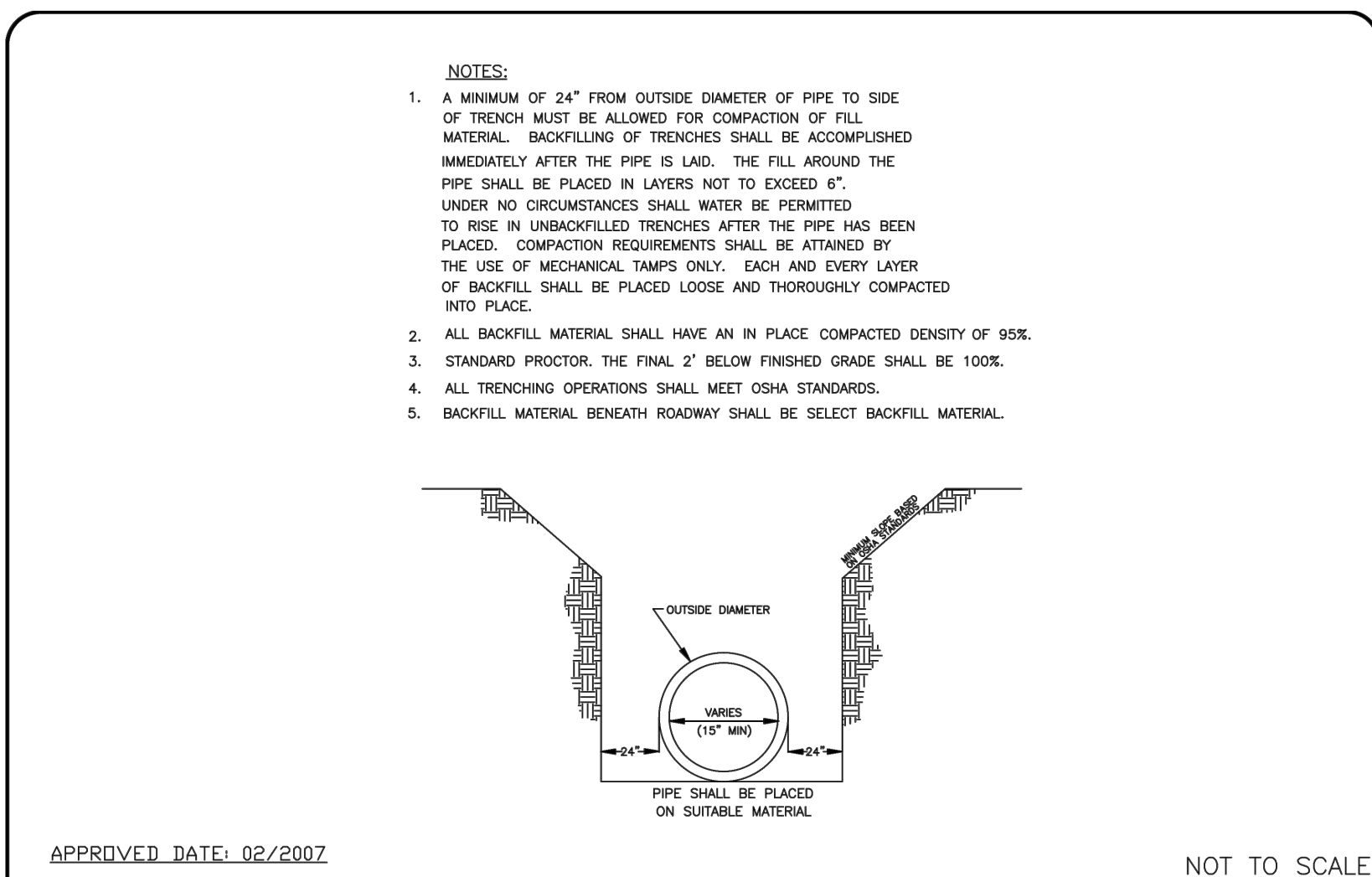
DWG	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
840.31	CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE	NOTE 1 OPTIONAL MANHOLE IS REQUIRED
840.32	BRICK JUNCTION BOX 12" THRU 66" PIPE	OPTIONAL MANHOLE IS REQUIRED
840.34	TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER	NOTE 1 OPTIONAL MANHOLE IS REQUIRED
840.35	TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES	NOTE 1 OPTIONAL MANHOLE IS REQUIRED
840.36	TRAFFIC BEARING DROP INLET FOR STEEL (840.37) DOUBLE FRAME AND GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.37	STEEL GRATE AND FRAME	NOT FOR USE IN PEDESTRIAN AREAS
840.41	SPRING BOX CONCRETE OR BRICK	NOTE 1
840.45	PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)	WAFFLE WALL IS NOT PERMITTED. OPENINGS SHALL BE PRECAST
840.46	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE	
840.51	BRICK MANHOLE 12" THRU 54" PIPE	
840.52	PRECAST MANHOLE 4", 6" AND 8" DIAMETER 12" THRU 42" PIPE	
840.53	PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE	
840.54	MANHOLE FRAME AND COVER	
840.66	DRAINAGE STRUCTURE STEPS	
840.71	CONCRETE AND BRICK PIPE PLUG	
840.72	PIPE COLLAR	
850.01	CONCRETE PAVED DITCHES	
852.04	METHOD FOR PLACEMENT OF DROP INLETS IN GRASSED MEDIAN (USING 1"-6" CURB AND GUTTER)	
852.05	MEDIAN CURB FOR CATCH BASIN (FOR USE WITH 1"-6" CURB AND GUTTER)	
852.06	METHOD OF PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS	
876.01	RIP RAP IN CHANNELS	
876.03	DRAINAGE DITCHES WITH CLASS "A" RIP RAP	
876.04	DRAINAGE DITCHES WITH CLASS "B" RIP RAP	

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APPROVED DATE: 02/2007

1 NCDOT STANDARDS 1 OF 3
NOT TO SCALE

2 NCDOT STANDARDS 2 OF 3
NOT TO SCALE

3 NCDOT STANDARDS 3 OF 3
NOT TO SCALE



4 TRENCH DETAIL FOR STORM DRAIN
NOT TO SCALE

5 STANDARD YARD INLET WITH GRATE AND FRAME
NOT TO SCALE

6 PRECAST CONCRETE CATCH BASIN
NOT TO SCALE

7 RESERVED
NOT TO SCALE

8 RESERVED
NOT TO SCALE

9 RESERVED
NOT TO SCALE

PERMIT SET

CONCORD GENERAL UTILITY NOTES:

- PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 (2) ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND/OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS; THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS, THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.
- REVIEW AND APPROVAL OF THE PLANS DOES NOT RELIEVE THE OWNER, CONTRACTOR, OR DEVELOPER FROM MEETING THE REQUIREMENTS OF THE CITY OF CONCORD'S OR CABARRUS COUNTY ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, (AS APPLICABLE), CONCORD WATER & SEWER POLICIES AND TECHNICAL SPECIFICATIONS, THE "STANDARD SPECIFICATION FOR WASTEWATER COLLECTION & WASTE DISTRIBUTION FOR CABARRUS COUNTY (WSACC MANUAL) AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS & APPROVALS.
- THE CONTRACTOR MUST CONTACT THE CITY OF CONCORD ENGINEERING CONSTRUCTION MANAGER AT 704-920-5425 AT LEAST 24-HOURS PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY.
- THE EXISTING WATER MAIN VALVE RIMS AND STEMS AND THE EXISTING SEWER MAIN MANHOLES RIMS ARE TO BE RAISED OR LOWERED TO FINAL GRADE, AS APPLICABLE AND AT LEAST 3-FT OF GROUND COVER IS TO BE MAINTAINED OVER THE EXISTING UTILITIES AT ALL TIMES PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.
- CONCORD CODE OF ORDINANCES CHAPTER 62, ARTICLE II WATER AND SEWER SERVICE, SEC. 62-34(I) - THE CUSTOMER SHALL BE RESPONSIBLE FOR INSTALLING THE NECESSARY APPROVED DEVICE(S) TO MAKE ANY ADJUSTMENTS TO THE WATER PRESSURE SUPPLIED BY CONCORD UTILITIES AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SUCH DEVICES.
- PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98- THE FOLLOWING MINIMUM SEPARATIONS MUST BE INDICATED, UNLESS OTHERWISE APPROVED BY THE CITY:
 - A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION AND THE CITY'S WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.
 - A MINIMUM VERTICAL SEPARATION OF TWO FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION, INCLUDING BUT NOT LIMITED TO ANY OTHER UTILITY PROVIDER'S LINES OR EQUIPMENT, AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. IF AN EXCEPTION IS GRANTED, A MINIMUM VERTICAL SEPARATION OF ONE FOOT MUST BE MAINTAINED AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR AN APPROVED FERROUS MATERIAL WITH JOINTS THAT ARE EQUIVALENT TO POTABLE WATER MAIN STANDARDS FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE POINT OF CROSSING. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.
 - A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWEEN THE CITY WATER DISTRIBUTION SYSTEM AND WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED.

UTILITY SERVICE NOTES:

- PROPOSED SERVICES ARE TO BE INSTALLED BY THE DEVELOPER'S CONTRACTOR IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.
- EXISTING SERVICES NOT PROPOSED FOR REUTILIZATION SHALL BE ABANDONED BY THE DEVELOPER'S CONTRACTOR AT THE PUBLIC MAIN AND ANY VOIDS FILLED WITH THE APPLICABLE STRUCTURAL FILL IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.

WSACC NOTES:

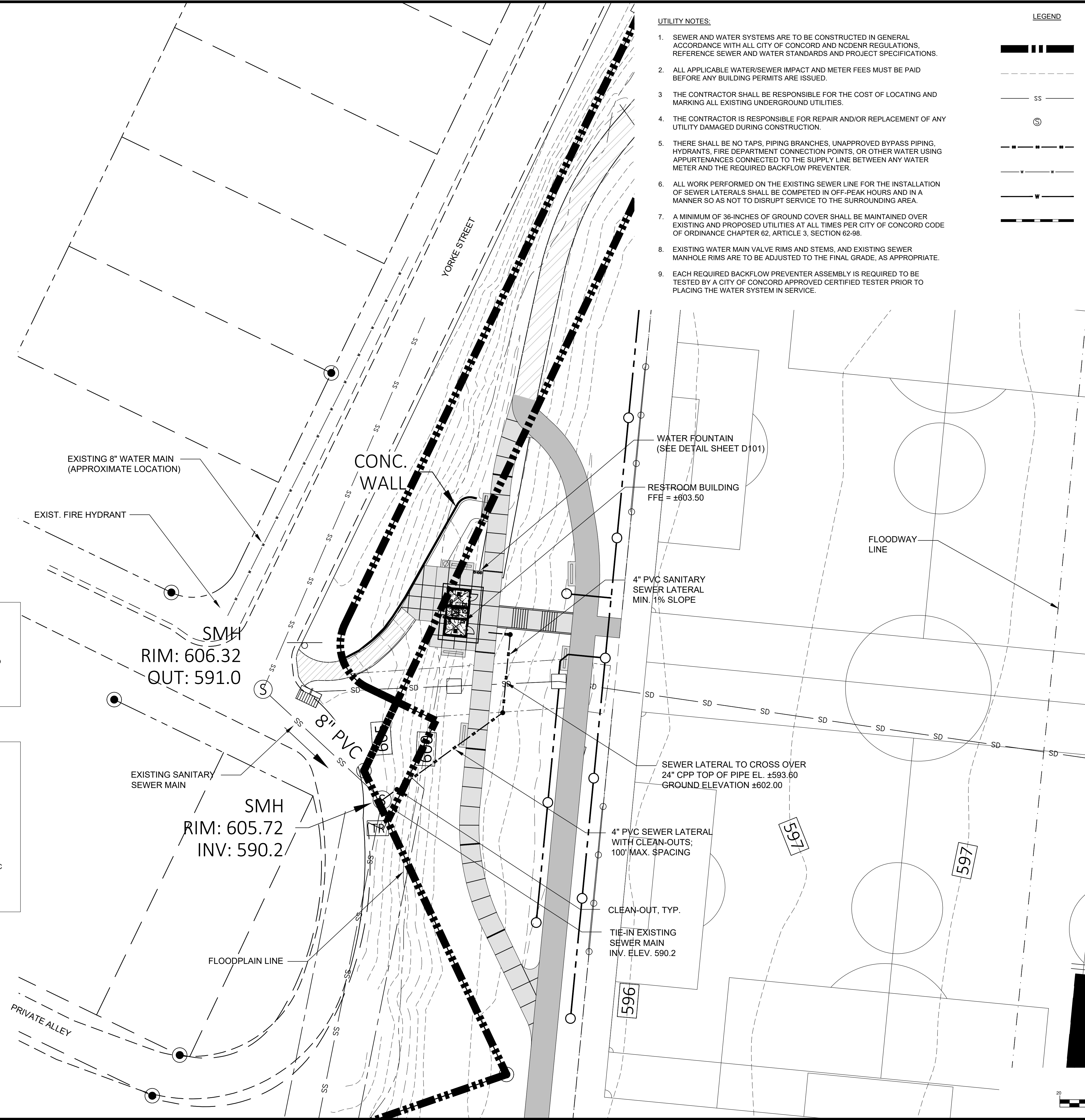
- WATER AND SEWER AUTHORITY OF CABARRUS COUNTY (WSACC) REQUESTS 48-HOUR NOTICE PRIOR TO ANY OF THE FOLLOWING, BUT NOT LIMITED TO, ACTIVITIES:
 - GRADING MODIFICATIONS AND OR EXCAVATIONS WITHIN THE SUBJECT SEWER EASEMENTS, WHICH EITHER:
 - EXPOSE AND/OR REDUCE COVER FROM EXISTING WSACC SEWER PIPES TO LESS THAN 2 VERTICAL FEET; OR
 - GENERALLY CHANGE THE WSACC EASEMENT CONTOURS GREATER THAN 2 VERTICAL FEET.
 - SUBSURFACE PLACEMENT OF STRUCTURAL OR UTILITY INSTALLATIONS, WHICH GENERALLY INCLUDES THE INSTALLATION OF STRUCTURAL H-PILES, AND INSTALLATION OF STORMWATER INFRASTRUCTURE.
 - ANY PROJECT RELATED SANITARY FACILITIES THAT CONNECT TO THE WSACC SEWER SYSTEM
- NOTIFY MARK LOMAX, WSACC CONSTRUCTION PROJECT MANAGER AT (704)786-1783 EXT. 231

UTILITY NOTES:

- SEWER AND WATER SYSTEMS ARE TO BE CONSTRUCTED IN GENERAL ACCORDANCE WITH ALL CITY OF CONCORD AND NCDENR REGULATIONS, REFERENCE SEWER AND WATER STANDARDS AND PROJECT SPECIFICATIONS.
- ALL APPLICABLE WATER/SEWER IMPACT AND METER FEES MUST BE PAID BEFORE ANY BUILDING PERMITS ARE ISSUED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND MARKING ALL EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITY DAMAGED DURING CONSTRUCTION.
- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND THE REQUIRED BACKFLOW PREVENTER.
- ALL WORK PERFORMED ON THE EXISTING SEWER LINE FOR THE INSTALLATION OF SEWER LATERALS SHALL BE COMPLETED IN OFF-PEAK HOURS AND IN A MANNER SO AS NOT TO DISRUPT SERVICE TO THE SURROUNDING AREA.
- A MINIMUM OF 36-INCHES OF GROUND COVER SHALL BE MAINTAINED OVER EXISTING AND PROPOSED UTILITIES AT ALL TIMES PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.
- EXISTING WATER MAIN VALVE RIMS AND STEMS, AND EXISTING SEWER MANHOLE RIMS ARE TO BE ADJUSTED TO THE FINAL GRADE, AS APPROPRIATE.
- EACH REQUIRED BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY A CITY OF CONCORD APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

LEGEND

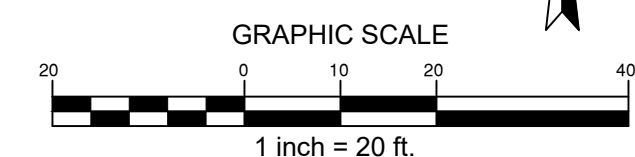
- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING WATER LINE
- PROPOSED WATER SERVICE
- PROPOSED STORM PIPE



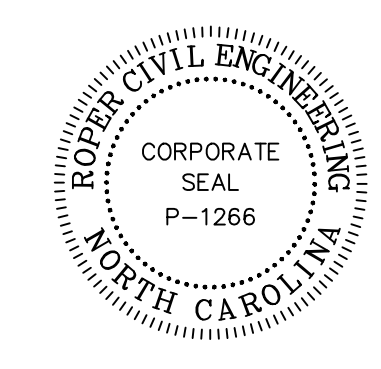
PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-432-4269) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



ROPER CIVIL ENGINEERING
 3007 Hinsdale Street
 Charlotte, NC 28210
 (T) 704.582.3751



REVISIONS:

6-14-2025	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 20'-0"
 DATE: 5-4-23
 SHEET NAME: UTILITY PLAN - SEWER
 SHEET NO: C500

CONCORD GENERAL UTILITY NOTES:

- PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 (2) ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND/OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS; THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS; AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS, THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.
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- THE CONTRACTOR MUST CONTACT THE CITY OF CONCORD ENGINEERING CONSTRUCTION MANAGER AT 704-920-5425 AT LEAST 24-HOURS PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY.
- THE EXISTING WATER MAIN VALVE RIMS AND STEMS AND THE EXISTING SEWER MAIN MANHOLES RIMS ARE TO BE RAISED OR LOWERED TO FINAL GRADE, AS APPLICABLE AND AT LEAST 3-FT OF GROUND COVER IS TO BE MAINTAINED OVER THE EXISTING UTILITIES AT ALL TIMES PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.
- CONCORD CODE OF ORDINANCES CHAPTER 62, ARTICLE II WATER AND SEWER SERVICE, SEC. 62-34(1) - THE CUSTOMER SHALL BE RESPONSIBLE FOR INSTALLING THE NECESSARY APPROVED DEVICE(S) TO MAKE ANY ADJUSTMENTS TO THE WATER PRESSURE SUPPLIED BY CONCORD UTILITIES AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SUCH DEVICES.
- PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98- THE FOLLOWING MINIMUM SEPARATIONS MUST BE INDICATED, UNLESS OTHERWISE APPROVED BY THE CITY:
 - A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION AND THE CITY'S WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.
 - A MINIMUM VERTICAL SEPARATION OF TWO FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION, INCLUDING BUT NOT LIMITED TO ANY OTHER UTILITY PROVIDER'S LINES OR EQUIPMENT, AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. IF AN EXCEPTION IS GRANTED, A MINIMUM VERTICAL SEPARATION OF ONE FOOT MUST BE MAINTAINED AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR AN APPROVED FERROUS MATERIAL WITH JOINTS THAT ARE EQUIVALENT TO POTABLE WATER MAIN STANDARDS FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE POINT OF CROSSING. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.
 - A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWEEN THE CITY WATER DISTRIBUTION SYSTEM AND WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED.

WSACC NOTES:

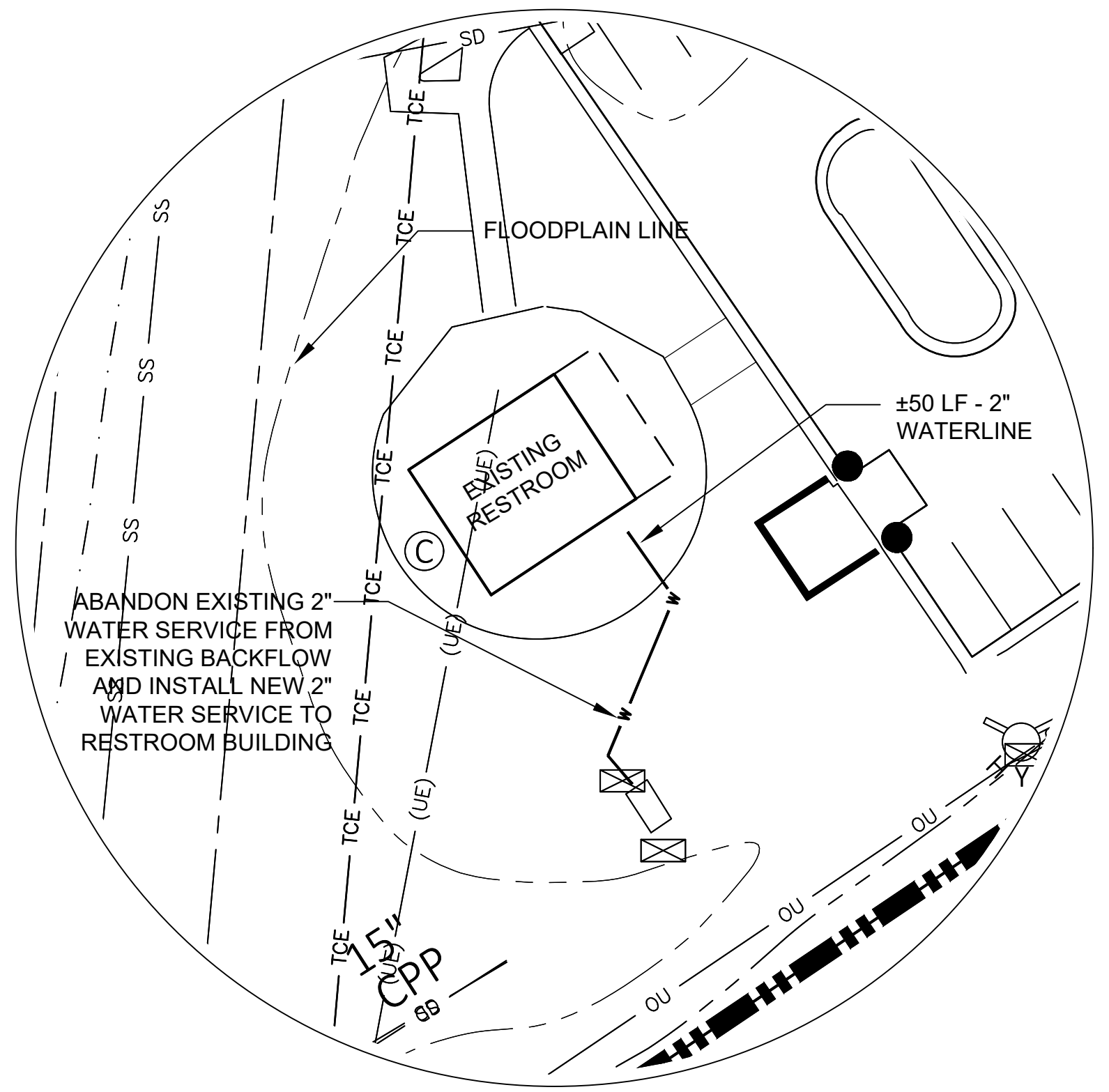
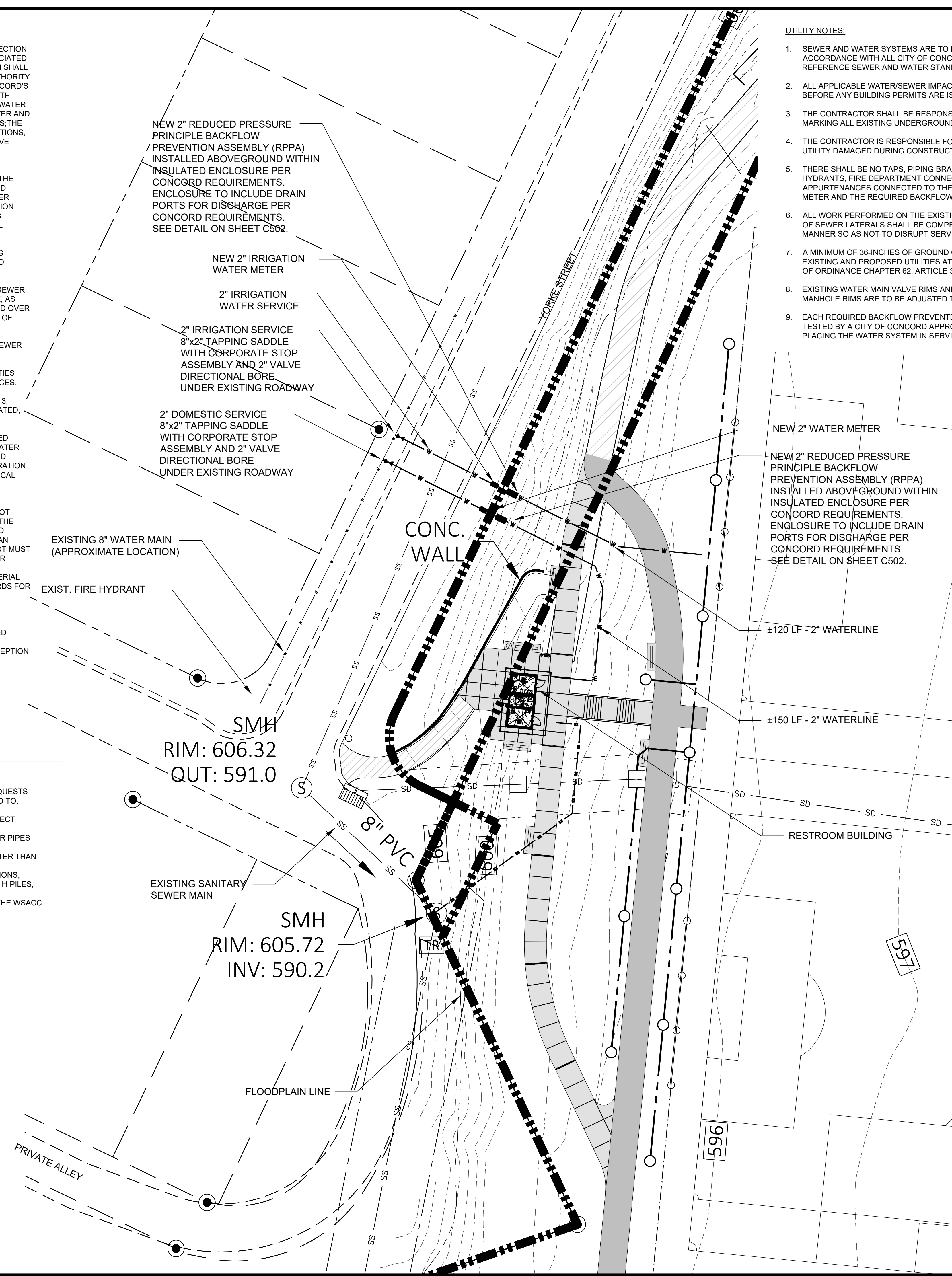
- WATER AND SEWER AUTHORITY OF CABARRUS COUNTY (WSACC) REQUESTS 48-HOUR NOTICE PRIOR TO ANY OF THE FOLLOWING, BUT NOT LIMITED TO, ACTIVITIES:
 - GRADING MODIFICATIONS AND OR EXCAVATIONS WITHIN THE SUBJECT SEWER EASEMENTS, WHICH EITHER:
 - EXPOSE AND/OR REDUCE COVER FROM EXISTING WSACC SEWER PIPES TO LESS THAN 2 VERTICAL FEET, OR
 - GENERALLY CHANGE THE WSACC EASEMENT CONTOURS GREATER THAN 2 VERTICAL FEET.
 - SUBSURFACE PLACEMENT OF STRUCTURAL OR UTILITY INSTALLATIONS, WHICH GENERALLY INCLUDES THE INSTALLATION OF STRUCTURAL H-PILES, AND INSTALLATION OF STORMWATER INFRASTRUCTURE.
 - ANY PROJECT RELATED SANITARY FACILITIES THAT CONNECT TO THE WSACC SEWER SYSTEM
- NOTIFY MARK LOMAX, WSACC CONSTRUCTION PROJECT MANAGER AT (704)786-1783 EXT. 231

UTILITY NOTES:

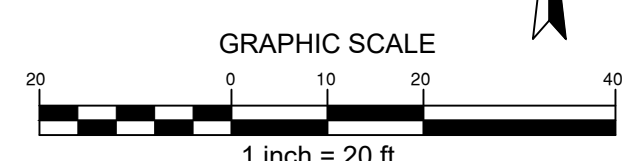
- SEWER AND WATER SYSTEMS ARE TO BE CONSTRUCTED IN GENERAL ACCORDANCE WITH ALL CITY OF CONCORD AND NCDENR REGULATIONS, REFERENCE SEWER AND WATER STANDARDS AND PROJECT SPECIFICATIONS.
- ALL APPLICABLE WATER/SEWER IMPACT AND METER FEES MUST BE PAID BEFORE ANY BUILDING PERMITS ARE ISSUED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND MARKING ALL EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITY DAMAGED DURING CONSTRUCTION.
- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND THE REQUIRED BACKFLOW PREVENTER.
- ALL WORK PERFORMED ON THE EXISTING SEWER LINE FOR THE INSTALLATION OF SEWER LATERALS SHALL BE COMPLETED IN OFF-PEAK HOURS AND IN A MANNER SO AS NOT TO DISRUPT SERVICE TO THE SURROUNDING AREA.
- A MINIMUM OF 36-INCHES OF GROUND COVER SHALL BE MAINTAINED OVER EXISTING AND PROPOSED UTILITIES AT ALL TIMES PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.
- EXISTING WATER MAIN VALVE RIMS AND STEMS, AND EXISTING SEWER MANHOLE RIMS ARE TO BE ADJUSTED TO THE FINAL GRADE, AS APPROPRIATE.
- EACH REQUIRED BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY A CITY OF CONCORD APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER LATERAL
- EXISTING WATER LINE
- PROPOSED WATER SERVICE
- PROPOSED STORM PIPE



- UTILITY SERVICE NOTES:**
- PROPOSED SERVICES ARE TO BE INSTALLED BY THE DEVELOPER'S CONTRACTOR IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.
 - EXISTING SERVICES NOT PROPOSED FOR REUTILIZATION SHALL BE ABANDONED BY THE DEVELOPER'S CONTRACTOR AT THE PUBLIC MAIN AND ANY VOIDS FILLED WITH THE APPLICABLE STRUCTURAL FILL IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.

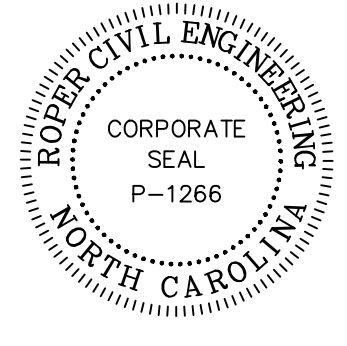


PERMIT SET



CONTRACTOR SHALL NOTIFY NORTH CAROLINA ONE CALL (811) OR (1-800-432-0989) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

ROPER CIVIL ENGINEERING
3007 Hinsdale Street
Charlotte, NC 28210
(704) 582-3751

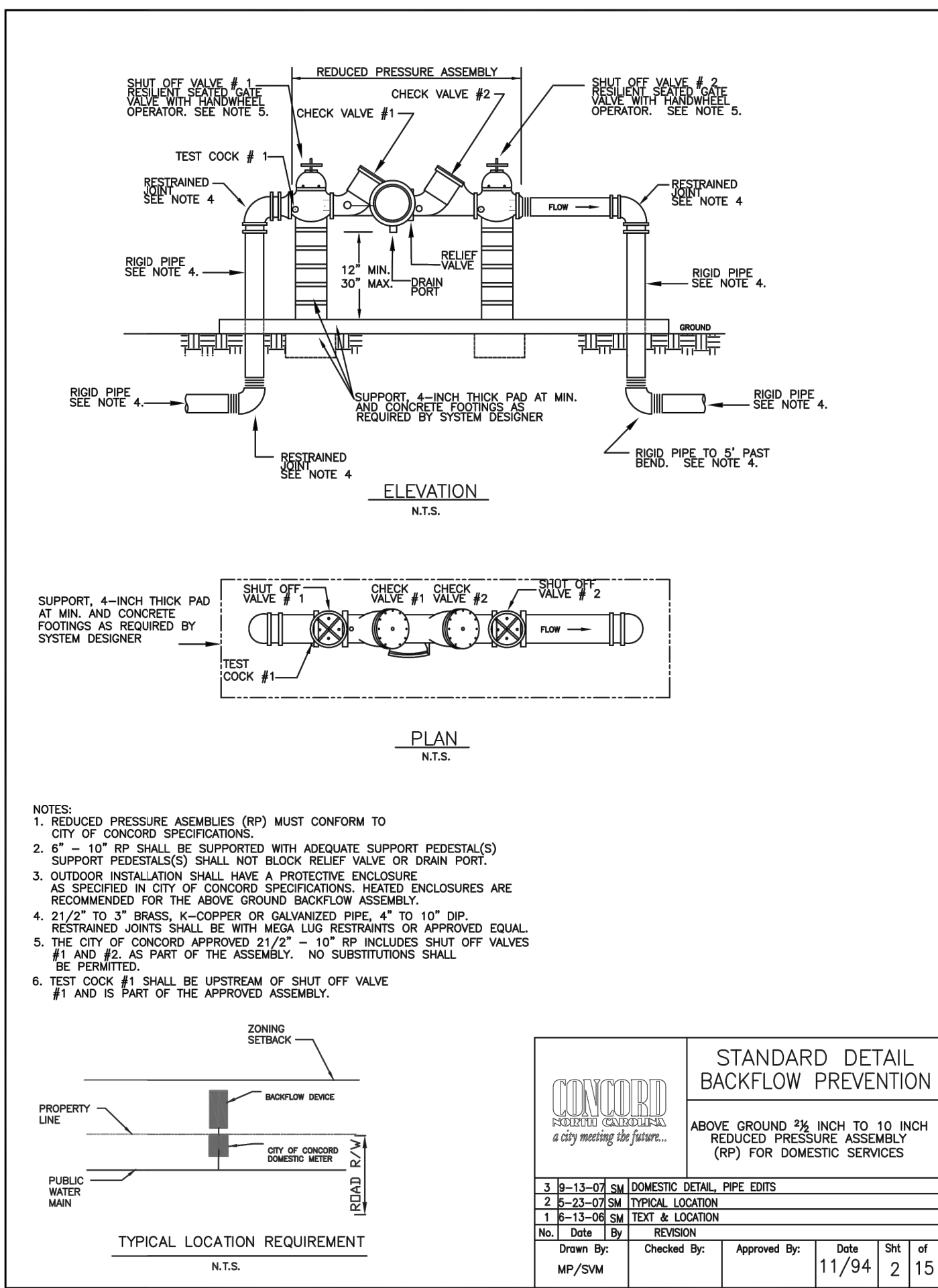


REVISIONS:
6-14-2023, ADDENDUM 1

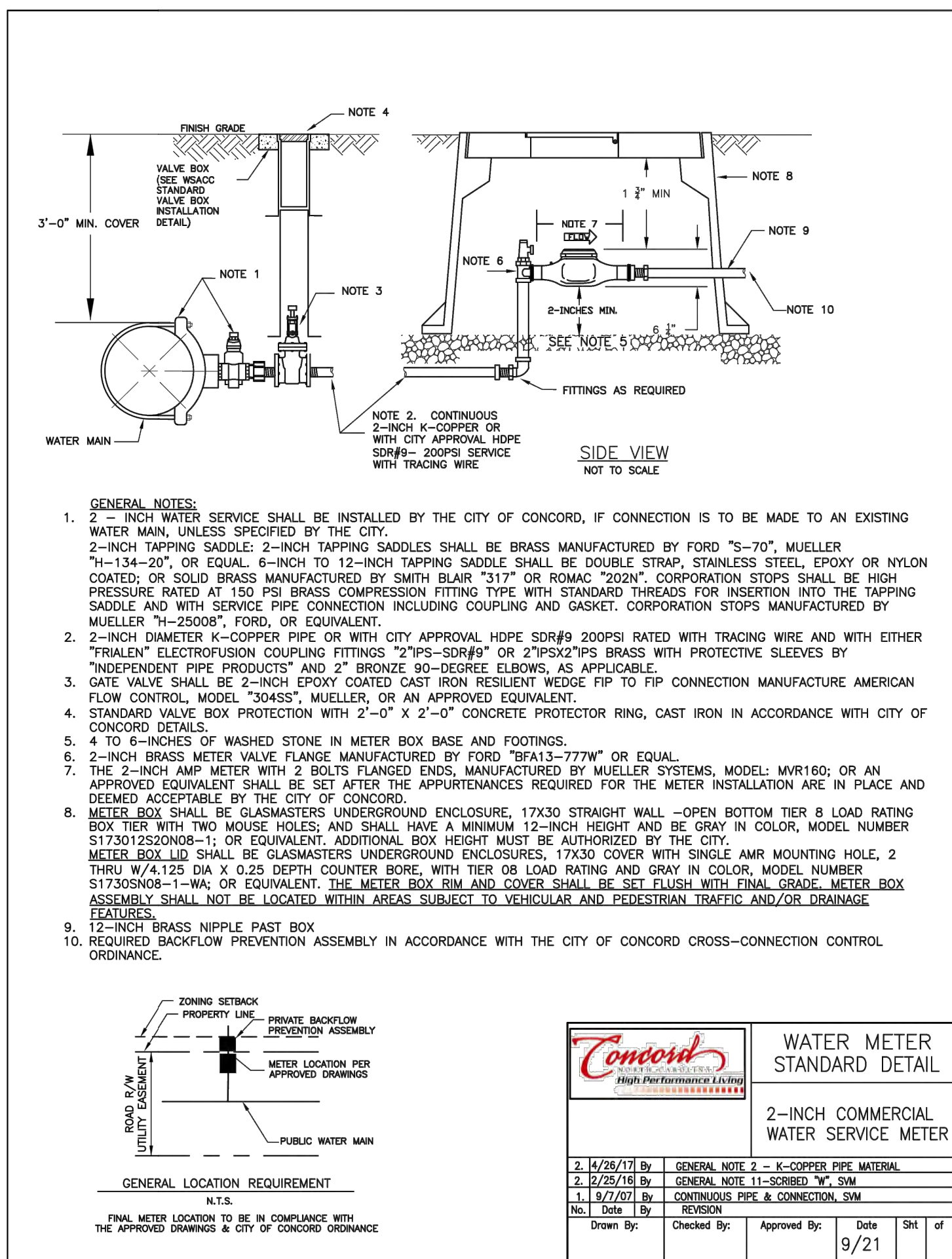
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

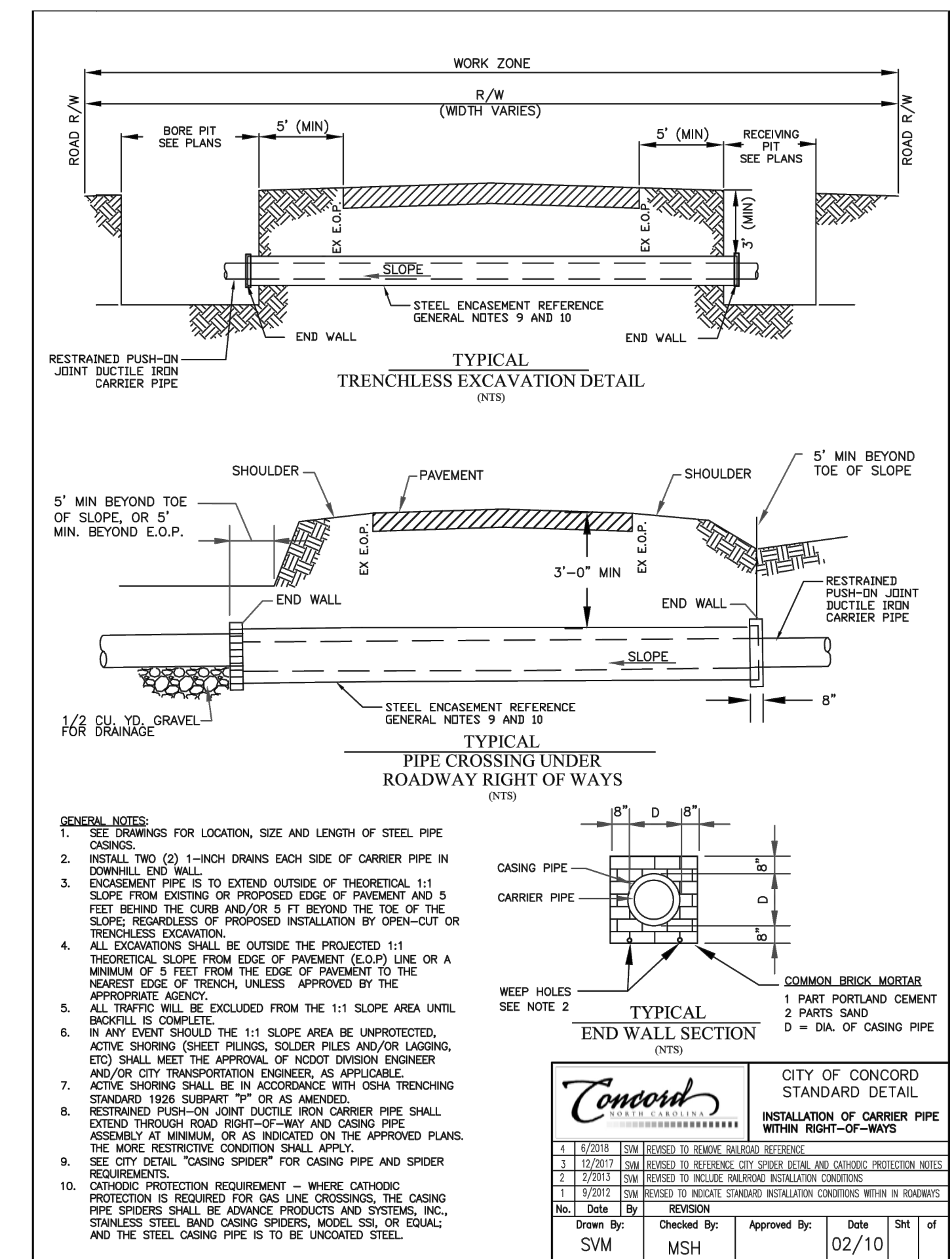
SCALE: 1" = 20'-0"
DATE: 5-4-23
SHEET NAME:
UTILITY PLAN - WATER
SHEET NO:
C501



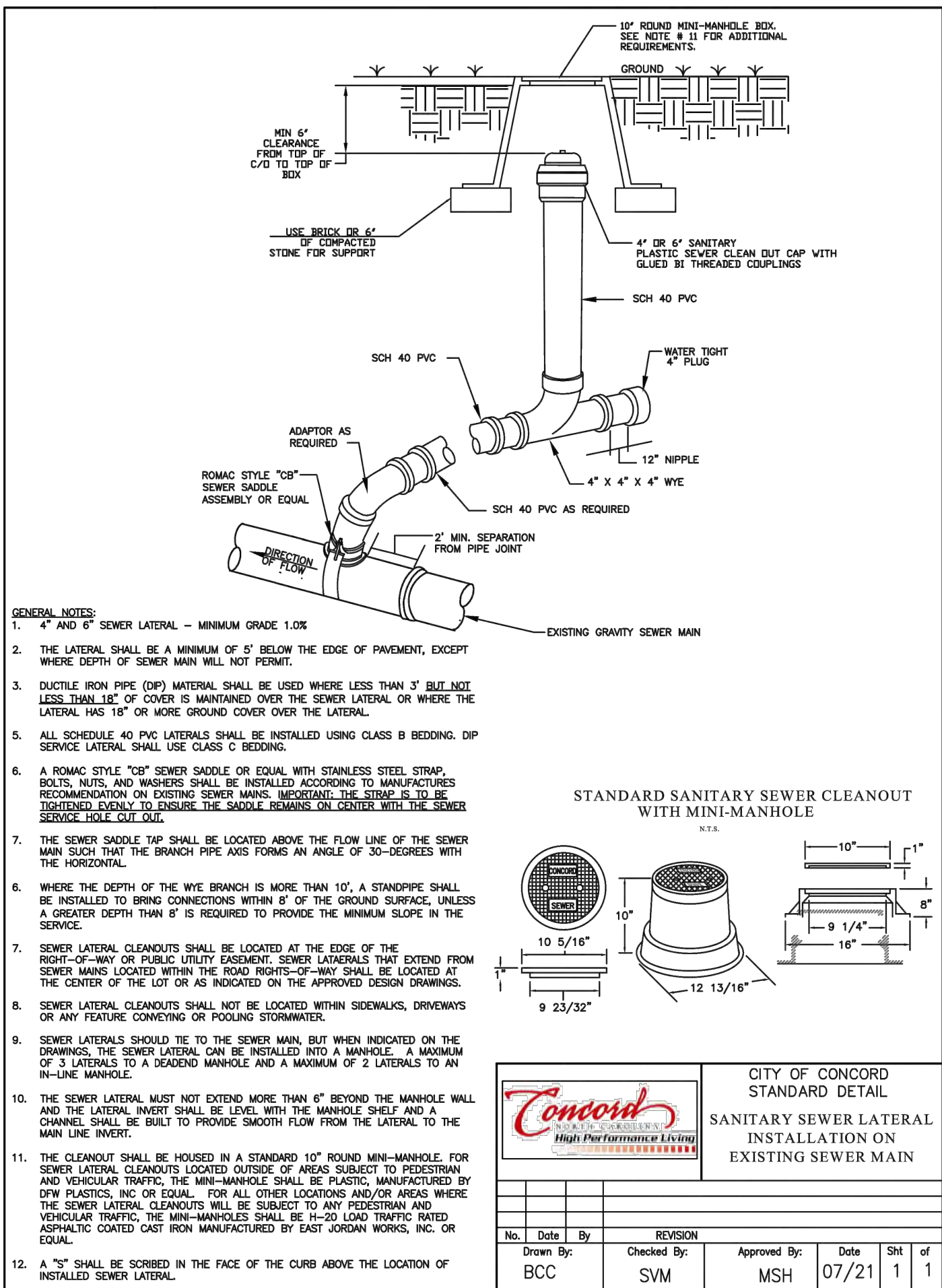
1 ABOVE GROUND REDUCED PRESSURE ASSEMBLY
NOT TO SCALE



2 2-INCH COMMERCIAL WATER SERVICE METER
NOT TO SCALE



3 INSTALLATION OF CARRIER PIPE WITHIN R/W
NOT TO SCALE

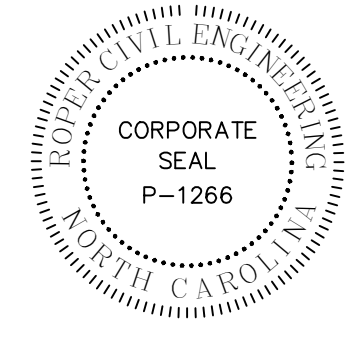


4 SANITARY SEWER LATERAL INSTALLATION
NOT TO SCALE

5 RESERVED
NOT TO SCALE

6 RESERVED
NOT TO SCALE

PERMIT SET



REVISIONS:

CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME:
UTILITY DETAILS
SHEET NO:
C502

LEGEND

- EXISTING CONCRETE
- EXISTING ASPHALT
- EXISTING GRAVEL
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD
- PROPOSED GRAVEL TRAIL
- EXISTING CREEK BED AREA
- PROPOSED GRASS PAVER FIRE TURN AROUND

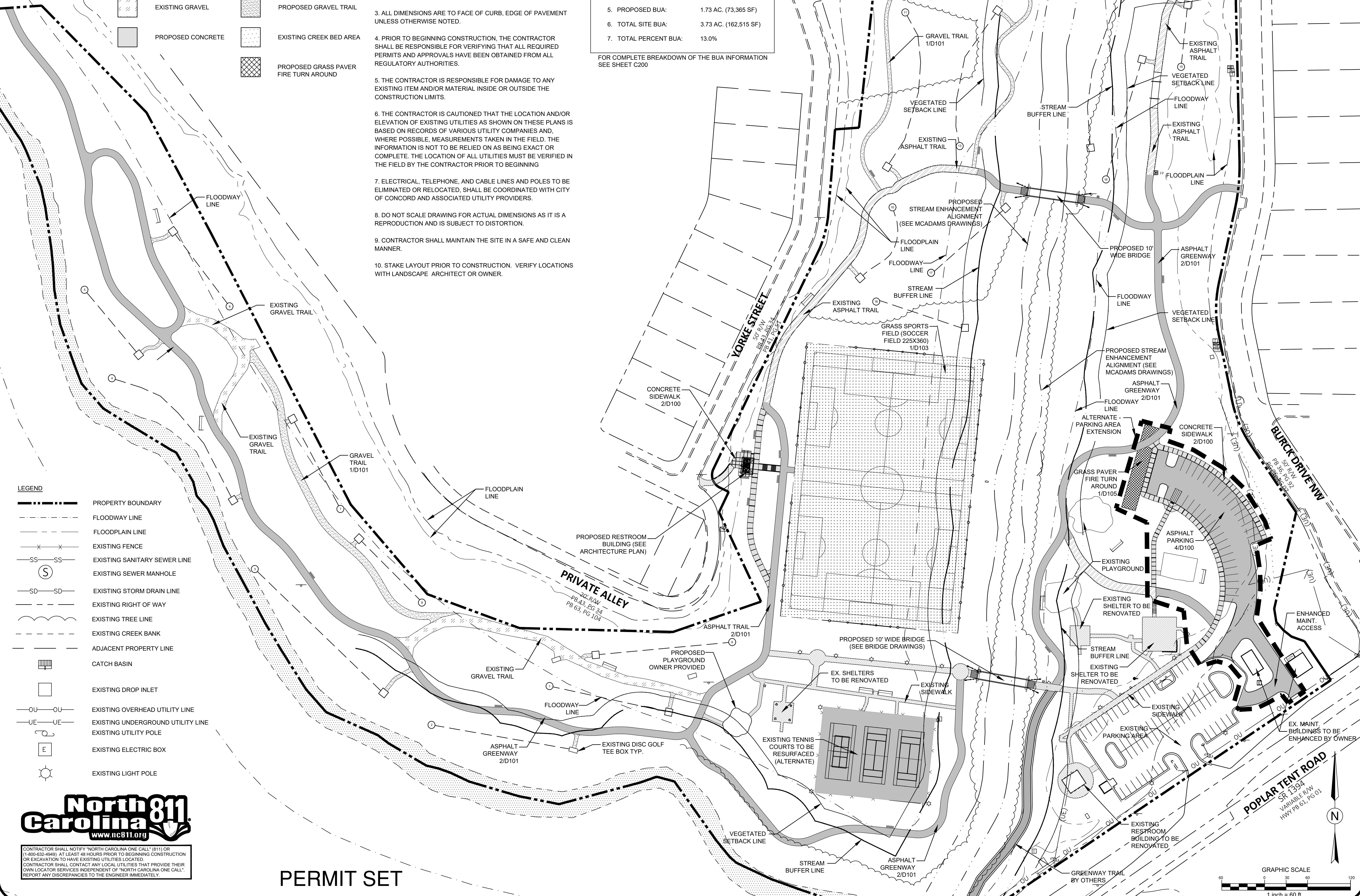
LAYOUT NOTES:

1. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CONCORD, NC, AND STATE OF NORTH CAROLINA STANDARDS.
2. SHOULD ANY DISCREPANCIES BE FOUND IN THE FIELD THE CONTRACTOR SHALL CONTACT THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.
3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
6. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING.
7. ELECTRICAL, TELEPHONE, AND CABLE LINES AND POLES TO BE ELIMINATED OR RELOCATED, SHALL BE COORDINATED WITH CITY OF CONCORD AND ASSOCIATED UTILITY PROVIDERS.
8. DO NOT SCALE DRAWING FOR ACTUAL DIMENSIONS AS IT IS A REPRODUCTION AND IS SUBJECT TO DISTORTION.
9. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE AND CLEAN MANNER.
10. STAKE LAYOUT PRIOR TO CONSTRUCTION. VERIFY LOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER.

POST-CONSTRUCTION SITE INFORMATION:

1. TOTAL SITE AREA:	28.81 AC. (1,254,964 SF)
2. EXISTING BUA:	2.89 AC. (126,040 SF)
3. EXISTING PERCENT BUA:	10.0%
4. REMOVED BUA:	0.89 AC. (38,890 SF)
5. PROPOSED BUA:	1.73 AC. (73,365 SF)
6. TOTAL SITE BUA:	3.73 AC. (162,515 SF)
7. TOTAL PERCENT BUA:	13.0%

FOR COMPLETE BREAKDOWN OF THE BUA INFORMATION SEE SHEET C200



- LEGEND**
- PROPERTY BOUNDARY
 - FLOODWAY LINE
 - FLOODPLAIN LINE
 - EXISTING FENCE
 - EXISTING SANITARY SEWER LINE
 - EXISTING SEWER MANHOLE
 - EXISTING STORM DRAIN LINE
 - EXISTING RIGHT OF WAY
 - EXISTING TREE LINE
 - EXISTING CREEK BANK
 - ADJACENT PROPERTY LINE
 - CATCH BASIN
 - EXISTING DROP INLET
 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING UNDERGROUND UTILITY LINE
 - EXISTING UTILITY POLE
 - EXISTING ELECTRIC BOX
 - EXISTING LIGHT POLE



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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PERMIT SET



THE DODD STUDIO
314 Tom Hall St.
Fort Mill, SC 29715
(716) 803.981.4330
www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"
DATE: 5-4-23
SHEET NAME:
OVERALL LAYOUT PLAN
SHEET NO.:
L100

LAYOUT NOTES:

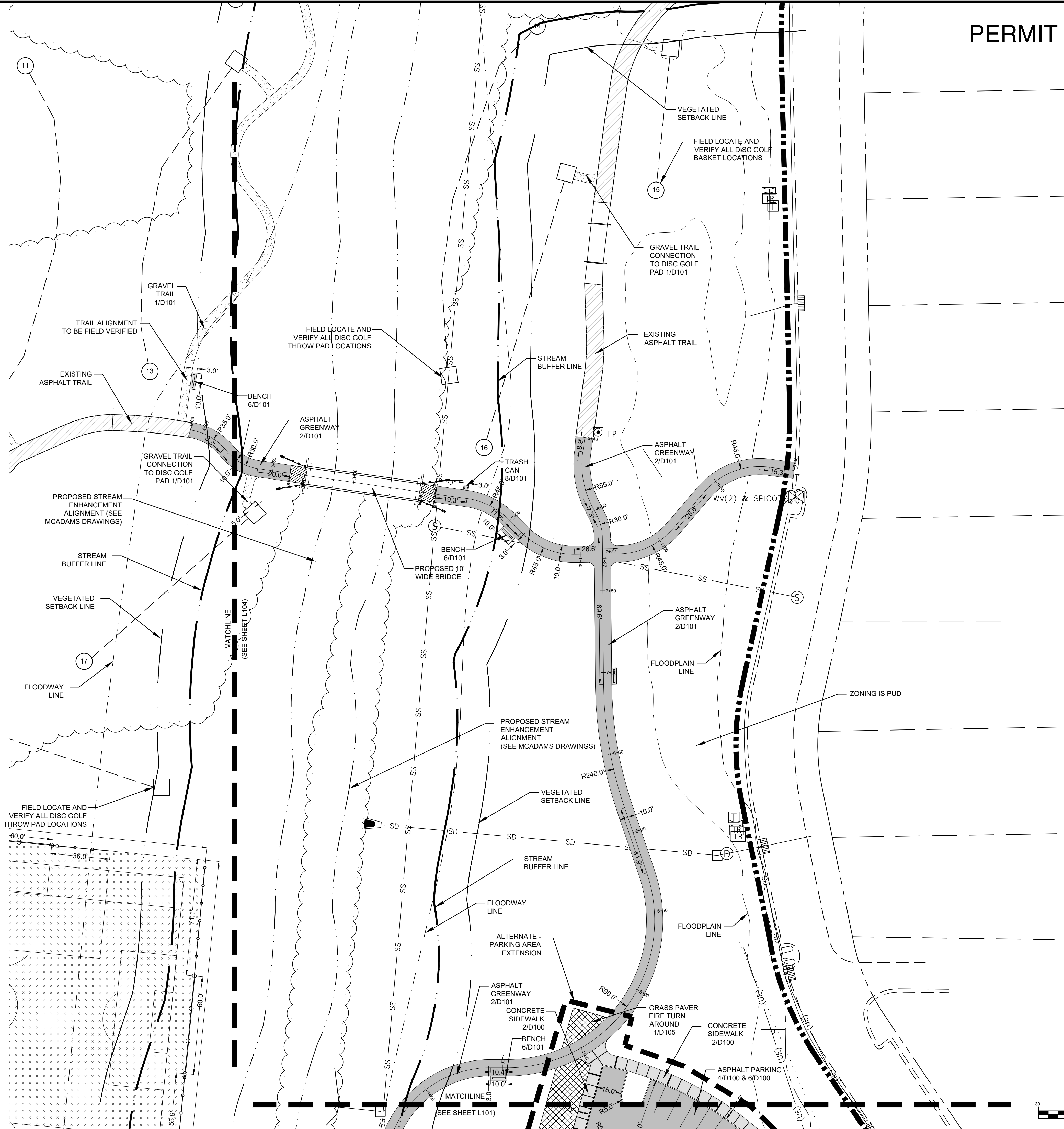
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LEGEND

- PROPERTY BOUNDARY
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING RIGHT OF WAY
- EXISTING TREE LINE
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CONCRETE
- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD
- PROPOSED GRASS PAVER FIRE TURN AROUND



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



PERMIT SET

THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
 (716) 803.981.4330
 www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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OWNER:
CITY OF CONCORD
 35 CABARRIUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

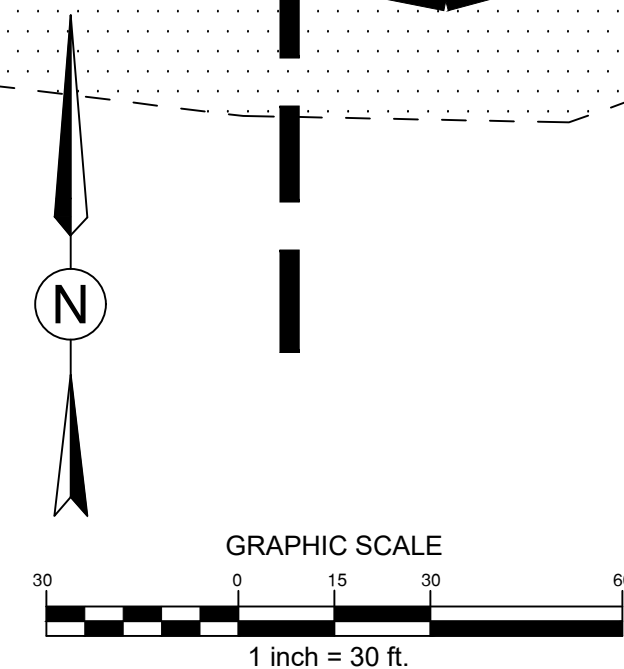
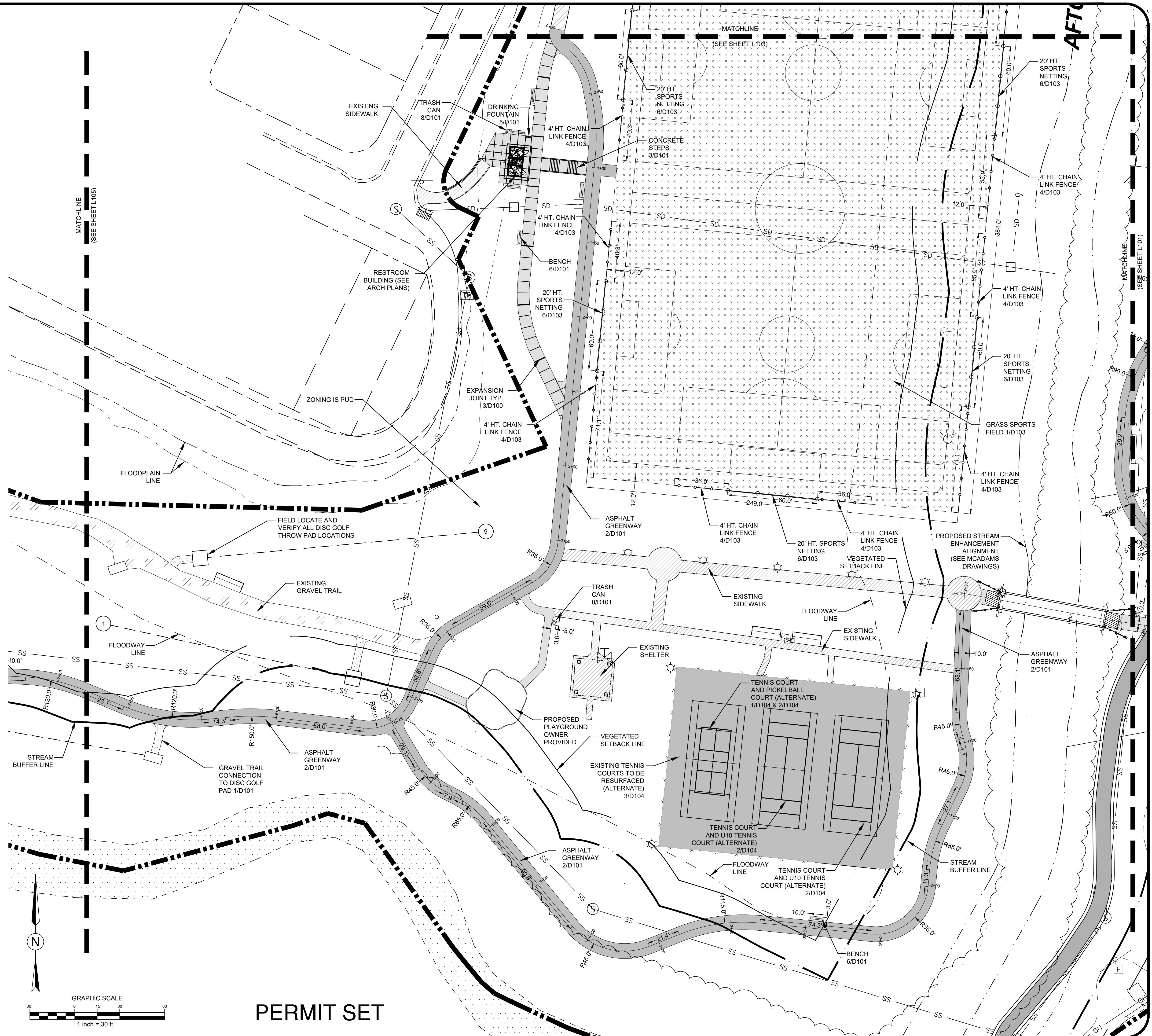
SCALE: 1" = 30'-0"
 DATE: 5-4-23
 SHEET NAME:
 UPPER FIELD AREA LAYOUT
 PLAN
 SHEET NO:
 L102

LAYOUT NOTES:

1. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CONCORD, NC, AND STATE OF NORTH CAROLINA STANDARDS.
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10. STAKE LAYOUT PRIOR TO CONSTRUCTION. VERIFY LOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER.

LEGEND

- PROPERTY BOUNDARY
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING RIGHT OF WAY
- EXISTING TREE LINE
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CREEK BED AREA
- EXISTING CONCRETE
- EXISTING ASPHALT
- EXISTING GRAVEL
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD



PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
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 www.thedoddstudio.com



REVISIONS:
6-14-2023: ADDENDUM 1

CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
 DATE: 5-4-23
 SHEET NAME: SPORT COURT AND FIELD LAYOUT PLAN
 SHEET NO: L103

LAYOUT NOTES:

1. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CONCORD, NC, AND STATE OF NORTH CAROLINA STANDARDS.
2. SHOULD ANY DISCREPANCIES BE FOUND IN THE FIELD THE CONTRACTOR SHALL CONTACT THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.
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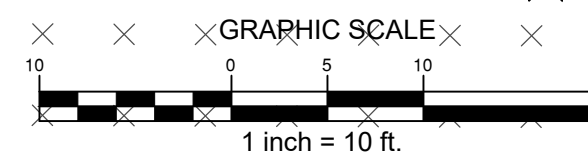
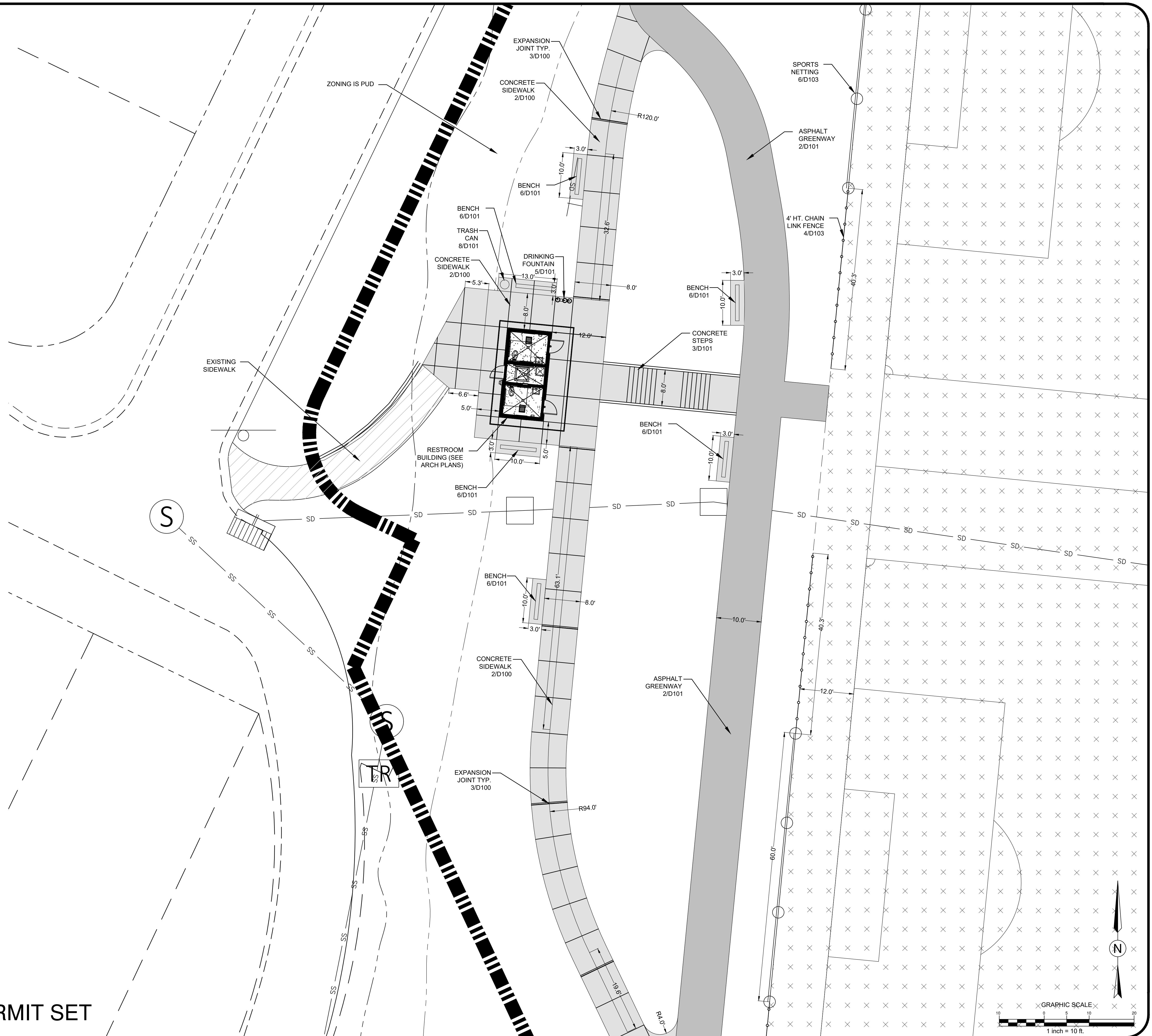
LEGEND

- PROPERTY BOUNDARY
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING RIGHT OF WAY
- EXISTING TREE LINE
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CREEK BED AREA
- EXISTING CONCRETE
- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

PERMIT SET



THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
 (716) 803.981.4330
 www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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OWNER:
CITY OF CONCORD
 35 CABARRIUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 10'-0"
 DATE: 5-4-23
 SHEET NAME:
RESTROOM BLDG ENLARGEMENT LAYOUT PLAN
 SHEET NO:
L104

PERMIT SET

LAYOUT NOTES:

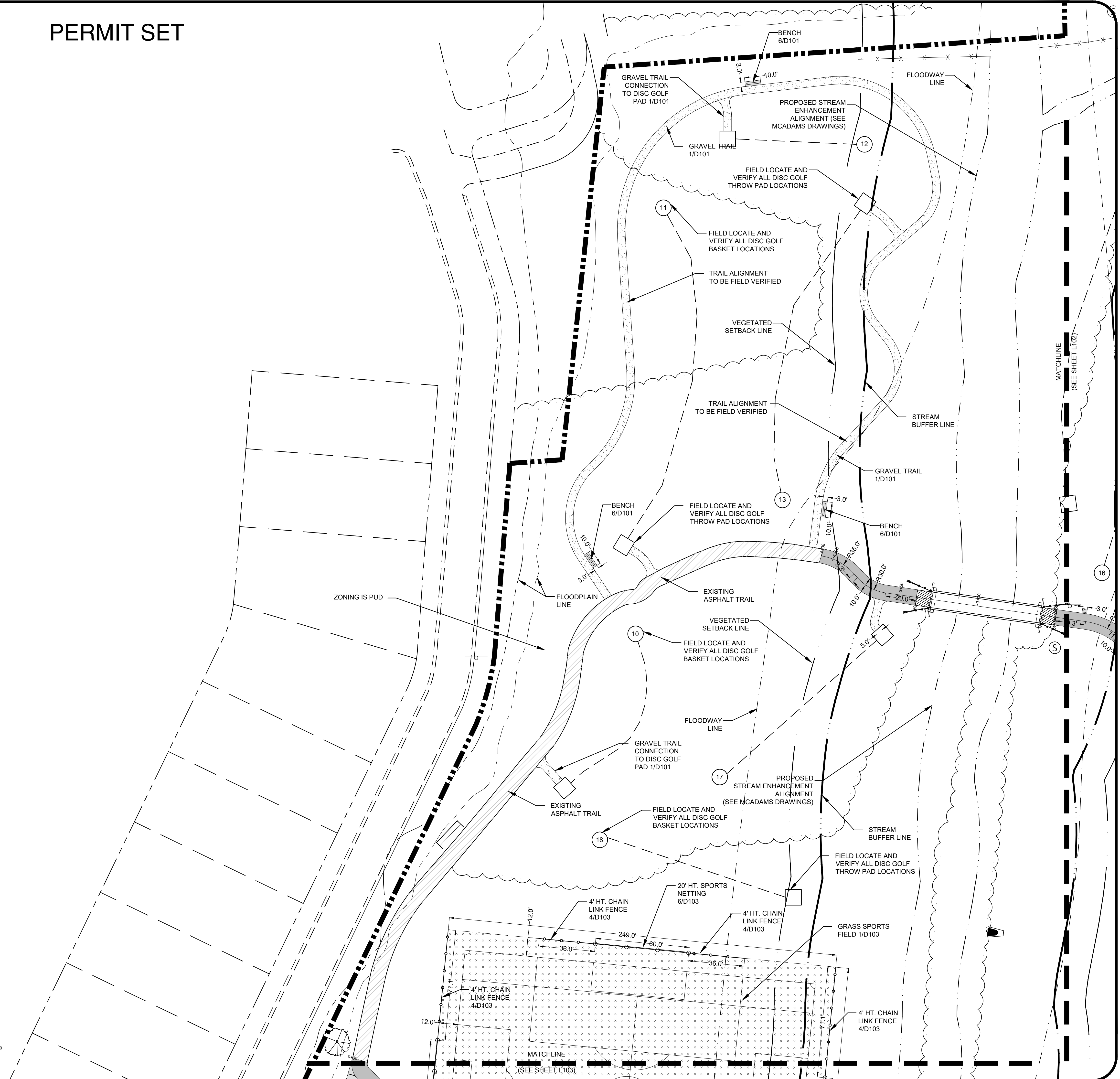
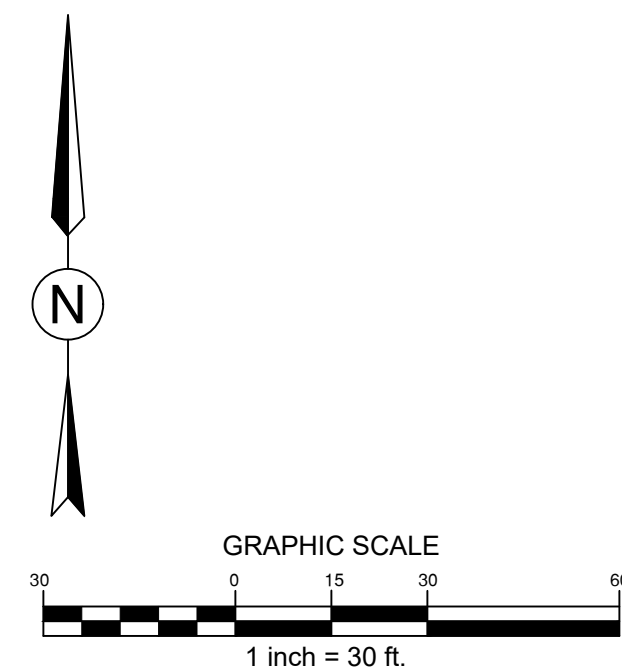
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4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
6. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING.
7. ELECTRICAL, TELEPHONE, AND CABLE LINES AND POLES TO BE ELIMINATED OR RELOCATED, SHALL BE COORDINATED WITH CITY OF CONCORD AND ASSOCIATED UTILITY PROVIDERS.
8. DO NOT SCALE DRAWING FOR ACTUAL DIMENSIONS AS IT IS A REPRODUCTION AND IS SUBJECT TO DISTORTION.
9. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE AND CLEAN MANNER.
10. STAKE LAYOUT PRIOR TO CONSTRUCTION. VERIFY LOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER.

LEGEND

- PROPERTY BOUNDARY
- FLOODWAY LINE
- FLOODPLAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN LINE
- EXISTING RIGHT OF WAY
- EXISTING TREE LINE
- EXISTING CREEK BANK
- ADJACENT PROPERTY LINE
- CATCH BASIN
- EXISTING DROP INLET
- EXISTING OVERHEAD UTILITY LINE
- EXISTING UNDERGROUND UTILITY LINE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC BOX
- EXISTING LIGHT POLE
- EXISTING CONCRETE
- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD
- PROPOSED GRAVEL



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



THE DODD STUDIO
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(716) 803.981.4330
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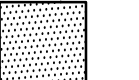


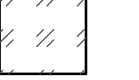





REVISIONS:
6-14-2023: ADDENDUM 1

CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA



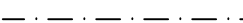












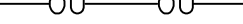

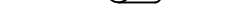

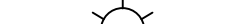

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 5-4-23
SHEET NAME: SPORT FIELD & DISC GOLF LAYOUT PLAN
SHEET NO: L105

LEGEND

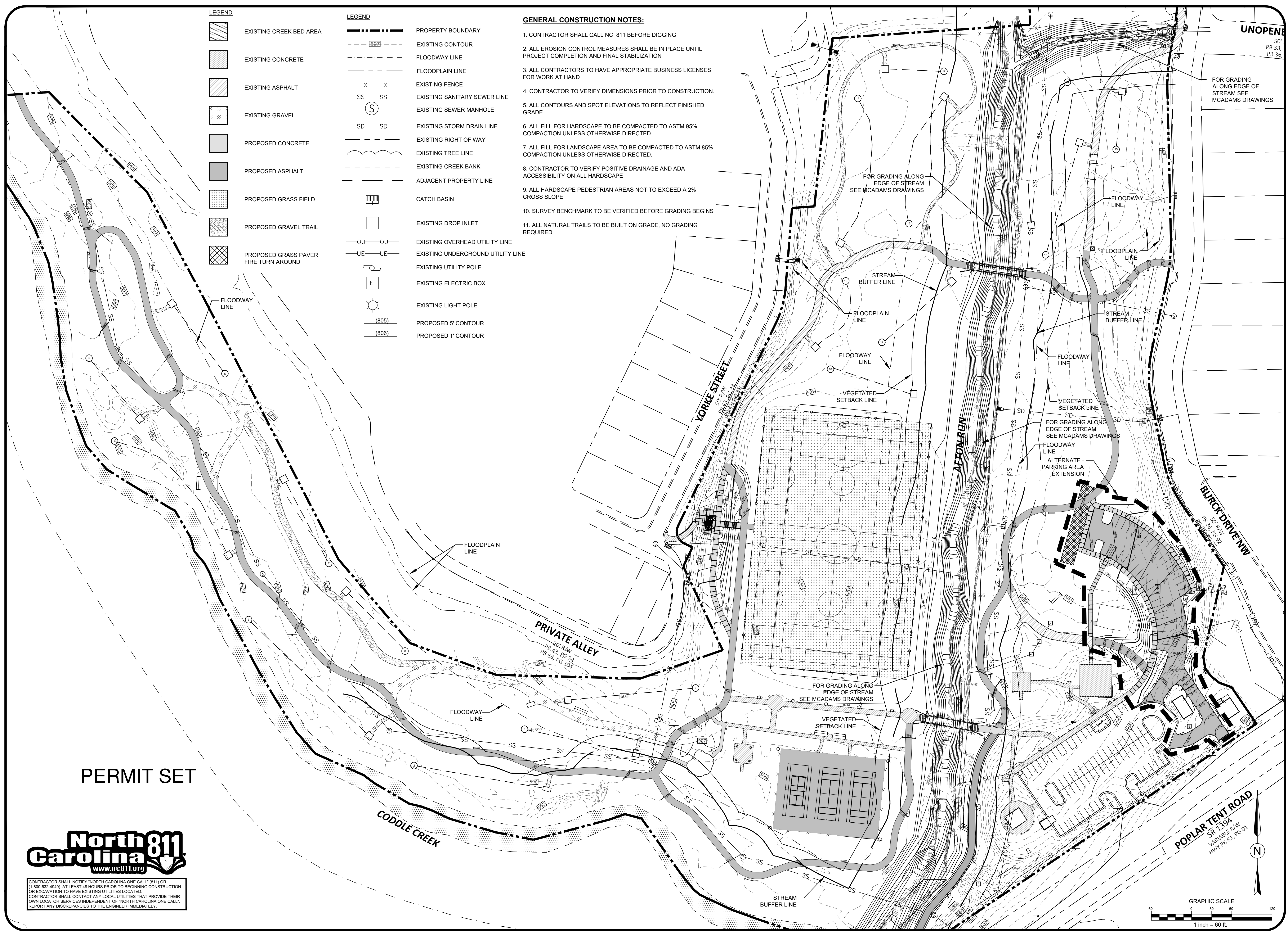
-  EXISTING CREEK BED AREA
-  EXISTING CONCRETE
-  EXISTING ASPHALT
-  EXISTING GRAVEL
-  PROPOSED CONCRETE
-  PROPOSED ASPHALT
-  PROPOSED GRASS FIELD
-  PROPOSED GRAVEL TRAIL
-  PROPOSED GRASS PAVER FIRE TURN AROUND

LEGEND

-  PROPERTY BOUNDARY
-  EXISTING CONTOUR
-  FLOODWAY LINE
-  FLOODPLAIN LINE
-  EXISTING FENCE
-  EXISTING SANITARY SEWER LINE
-  EXISTING SEWER MANHOLE
-  EXISTING STORM DRAIN LINE
-  EXISTING RIGHT OF WAY
-  EXISTING TREE LINE
-  EXISTING CREEK BANK
-  ADJACENT PROPERTY LINE
-  CATCH BASIN
-  EXISTING DROP INLET
-  EXISTING OVERHEAD UTILITY LINE
-  EXISTING UNDERGROUND UTILITY LINE
-  EXISTING UTILITY POLE
-  EXISTING ELECTRIC BOX
-  EXISTING LIGHT POLE
-  PROPOSED 5' CONTOUR
-  PROPOSED 1' CONTOUR

GENERAL CONSTRUCTION NOTES:

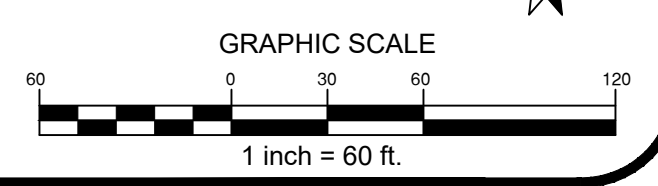
1. CONTRACTOR SHALL CALL NC 811 BEFORE DIGGING
2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE UNTIL PROJECT COMPLETION AND FINAL STABILIZATION
3. ALL CONTRACTORS TO HAVE APPROPRIATE BUSINESS LICENSES FOR WORK AT HAND
4. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
5. ALL CONTOURS AND SPOT ELEVATIONS TO REFLECT FINISHED GRADE
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9. ALL HARDSCAPE PEDESTRIAN AREAS NOT TO EXCEED A 2% CROSS SLOPE
10. SURVEY BENCHMARK TO BE VERIFIED BEFORE GRADING BEGINS
11. ALL NATURAL TRAILS TO BE BUILT ON GRADE, NO GRADING REQUIRED



PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



UNOPENED
50'
PB 33,
PB 36,
FOR GRADING
ALONG EDGE OF
STREAM SEE
MCADAMS DRAWINGS



REVISIONS:

6-14-2023	ADDENDUM 1
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OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 60'-0"
DATE: 5-4-23
SHEET NAME:
OVERALL GRADING PLAN
SHEET NO:
G100

GENERAL CONSTRUCTION NOTES:

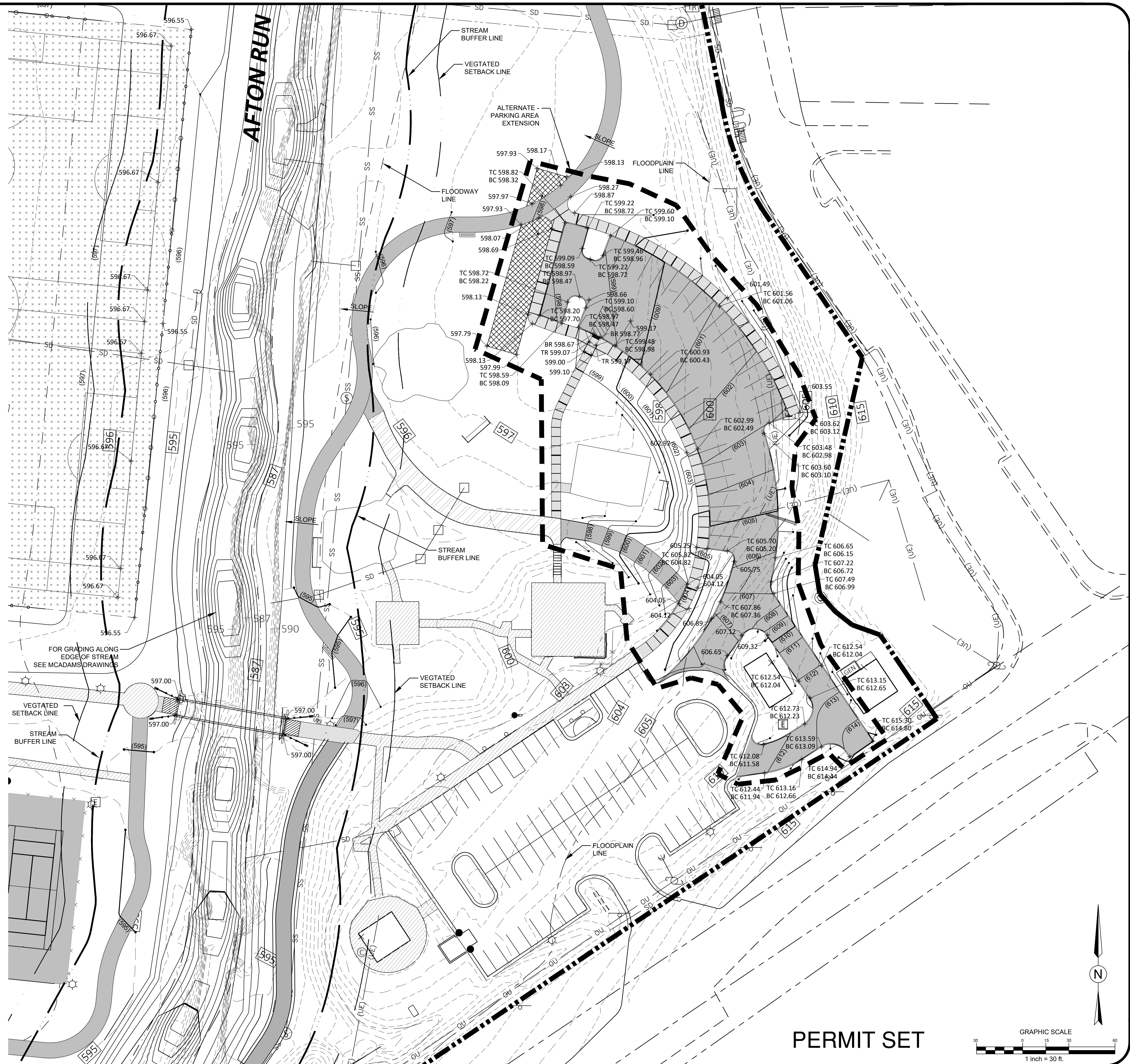
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- LEGEND**
- PROPERTY BOUNDARY
 - 597- EXISTING CONTOUR
 - - - FLOODWAY LINE
 - - - FLOODPLAIN LINE
 - x x x EXISTING FENCE
 - SS-SS EXISTING SANITARY SEWER LINE
 - (S) EXISTING SEWER MANHOLE
 - SD-SD EXISTING STORM DRAIN LINE
 - - - EXISTING RIGHT OF WAY
 - - - EXISTING TREE LINE
 - - - EXISTING CREEK BANK
 - - - ADJACENT PROPERTY LINE
 - [] CATCH BASIN
 - [] EXISTING DROP INLET
 - OU-OU EXISTING OVERHEAD UTILITY LINE
 - UE-UE EXISTING UNDERGROUND UTILITY LINE
 - [] EXISTING UTILITY POLE
 - [E] EXISTING ELECTRIC BOX
 - [] EXISTING LIGHT POLE
 - SLOPE SLOPE DIRECTION
 - (605) PROPOSED 5' CONTOUR
 - (606) PROPOSED 1' CONTOUR
 - 603.25 PROPOSED SPOT ELEVATION
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - TR TOP OF RAMP
 - BR BOTTOM OF RAMP
 - TS TOP OF STEPS
 - BS BOTTOM OF STEPS

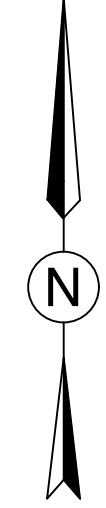
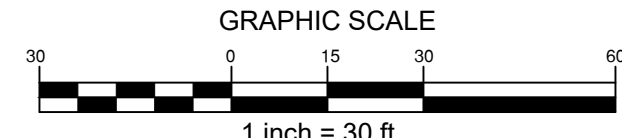
- [] EXISTING CREEK BED AREA
- [] EXISTING CONCRETE
- [] EXISTING ASPHALT
- [] PROPOSED CONCRETE
- [] PROPOSED ASPHALT
- [] PROPOSED GRASS FIELD
- [] PROPOSED GRAVEL TRAIL
- [] PROPOSED GRASS PAVER FIRE TURN AROUND



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-832-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



PERMIT SET



THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
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 www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
 DATE: 5-4-23
 SHEET NAME:
PARKING GRADING PLAN
 SHEET NO:
G101

GENERAL CONSTRUCTION NOTES:

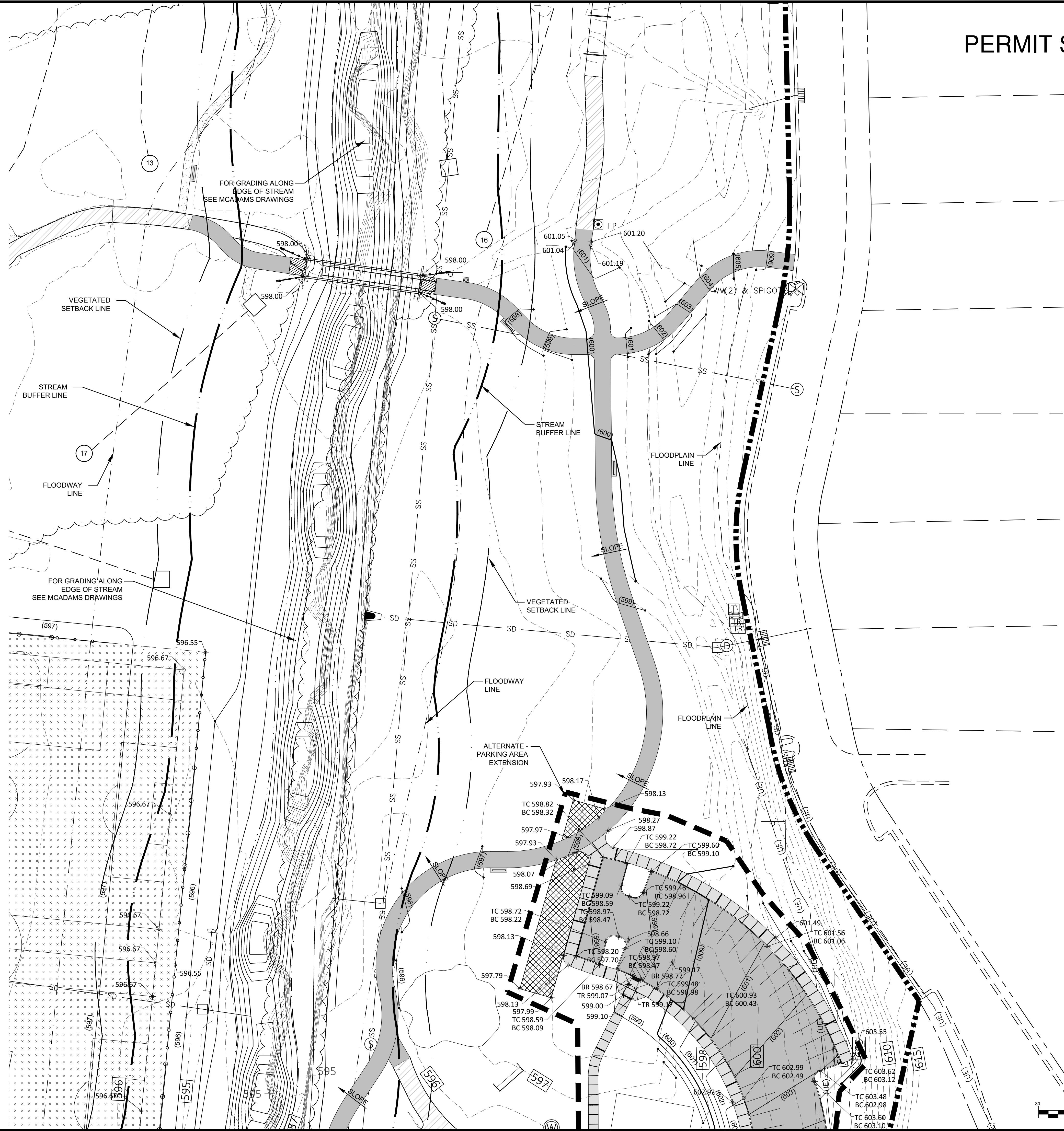
1. CONTRACTOR SHALL CALL NC 811 BEFORE DIGGING
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5. ALL CONTOURS AND SPOT ELEVATIONS TO REFLECT FINISHED GRADE
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11. ALL NATURAL TRAILS TO BE BUILT ON GRADE, NO GRADING REQUIRED

- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING CONTOUR
 - FLOODWAY LINE
 - FLOODPLAIN LINE
 - EXISTING FENCE
 - EXISTING SANITARY SEWER LINE
 - EXISTING SEWER MANHOLE
 - EXISTING STORM DRAIN LINE
 - EXISTING RIGHT OF WAY
 - EXISTING TREE LINE
 - EXISTING CREEK BANK
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 - CATCH BASIN
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 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING UNDERGROUND UTILITY LINE
 - EXISTING UTILITY POLE
 - EXISTING ELECTRIC BOX
 - EXISTING LIGHT POLE
 - SLOPE DIRECTION
 - PROPOSED 5' CONTOUR
 - PROPOSED 1' CONTOUR
 - PROPOSED SPOT ELEVATION
 - TOP OF CURB
 - BOTTOM OF CURB
 - TOP OF RAMP
 - BOTTOM OF RAMP
 - TOP OF STEPS
 - BOTTOM OF STEPS

- EXISTING CREEK BED AREA
- EXISTING CONCRETE
- EXISTING ASPHALT
- PROPOSED ASPHALT
- PROPOSED GRASS FIELD
- PROPOSED GRAVEL TRAIL
- PROPOSED CONCRETE
- PROPOSED GRASS PAVER FIRE TURN AROUND



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
 CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



PERMIT SET

THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
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 www.thedoddstudio.com



REVISIONS:

6-14-2023	ADDENDUM 1
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OWNER:
CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

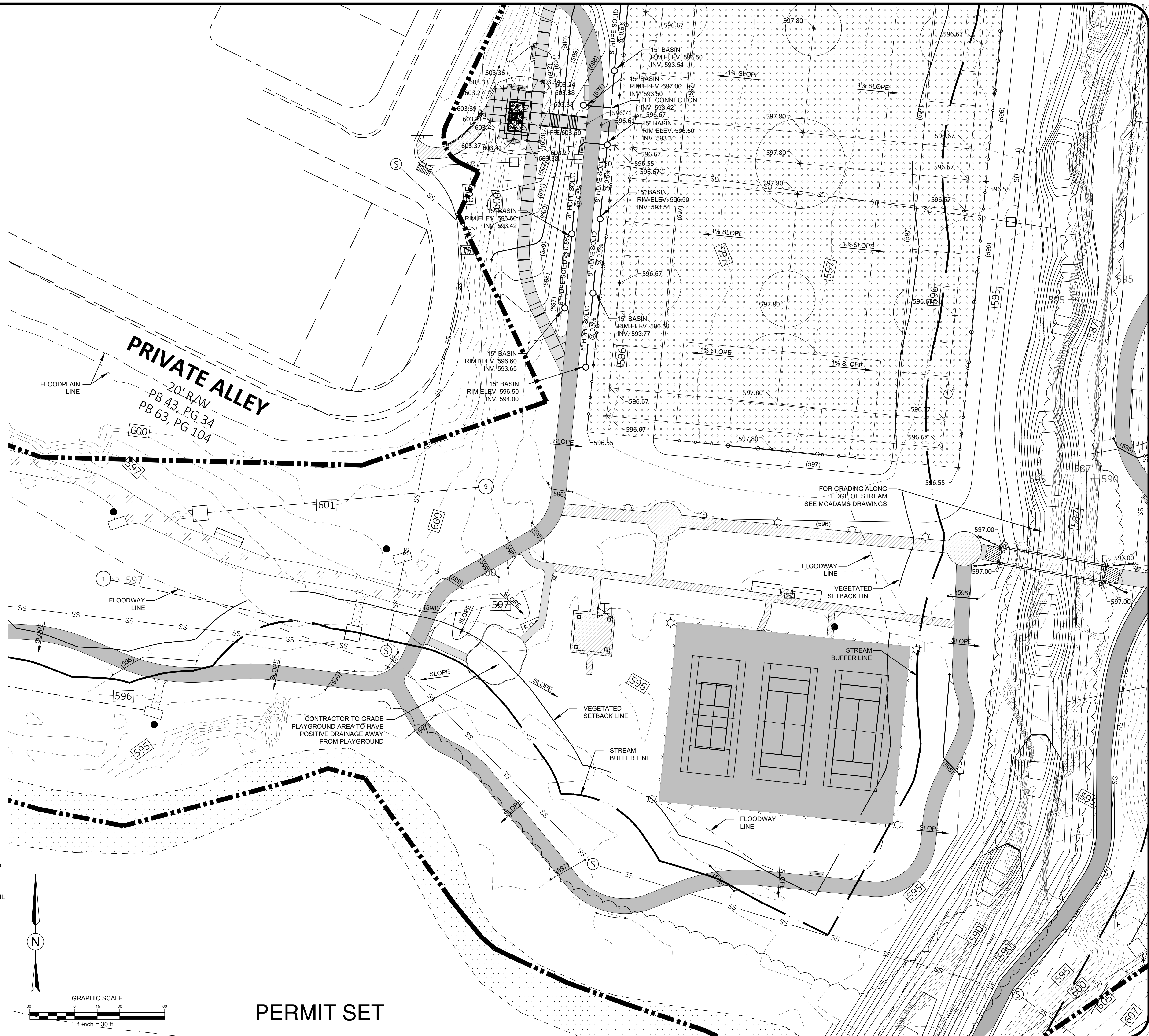
DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
 DATE: 5-4-23
 SHEET NAME:
 UPPER FIELD AREA
 GRADING PLAN
 SHEET NO:
G102

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL CALL NC 811 BEFORE DIGGING
2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE UNTIL PROJECT COMPLETION AND FINAL STABILIZATION
3. ALL CONTRACTORS TO HAVE APPROPRIATE BUSINESS LICENSES FOR WORK AT HAND
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11. ALL NATURAL TRAILS TO BE BUILT ON GRADE, NO GRADING REQUIRED

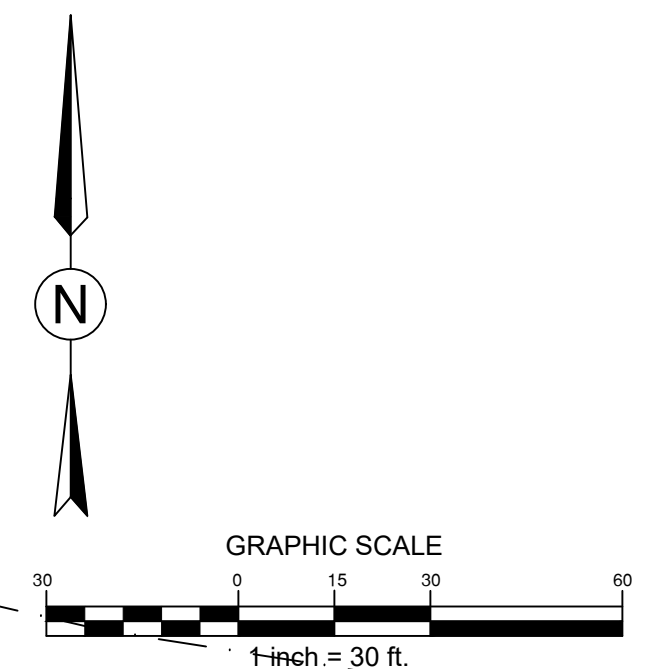
- LEGEND**
- PROPERTY BOUNDARY
 - 597- EXISTING CONTOUR
 - FLOODWAY LINE
 - FLOODPLAIN LINE
 - x x EXISTING FENCE
 - SS-SS EXISTING SANITARY SEWER LINE
 - (S) EXISTING SEWER MANHOLE
 - SD-SD EXISTING STORM DRAIN LINE
 - EXISTING RIGHT OF WAY
 - EXISTING TREE LINE
 - EXISTING CREEK BANK
 - ADJACENT PROPERTY LINE
 - [] CATCH BASIN
 - [] EXISTING DROP INLET
 - OU-OU EXISTING OVERHEAD UTILITY LINE
 - UE-UE EXISTING UNDERGROUND UTILITY LINE
 - [] EXISTING UTILITY POLE
 - [] EXISTING ELECTRIC BOX
 - [] EXISTING LIGHT POLE
 - SLOPE SLOPE DIRECTION
 - (605) PROPOSED 5' CONTOUR
 - (606) PROPOSED 1' CONTOUR
 - [] PROPOSED CATCH BASIN
 - PROPOSED COLLECTOR PIPE
 - 603.25 PROPOSED SPOT ELEVATION
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - TR TOP OF RAMP
 - BR BOTTOM OF RAMP
 - TS TOP OF STEPS
 - BS BOTTOM OF STEPS
 - [] EXISTING CREEK BED AREA
 - [] EXISTING CONCRETE
 - [] EXISTING ASPHALT
 - [] EXISTING GRAVEL
 - [] PROPOSED CONCRETE
 - [] PROPOSED ASPHALT
 - [] PROPOSED GRASS FIELD
 - [] PROPOSED GRAVEL TRAIL



PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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Fort Mill, SC 29715
(7) 803.987.4330
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REVISIONS:

6-14-2023	ADDENDUM 1
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CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 5-4-23
SHEET NAME:
SPORTS COURT AND FIELD
GRADING PLAN
SHEET NO:
G103

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL CALL NC 811 BEFORE DIGGING
2. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE UNTIL PROJECT COMPLETION AND FINAL STABILIZATION
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LEGEND

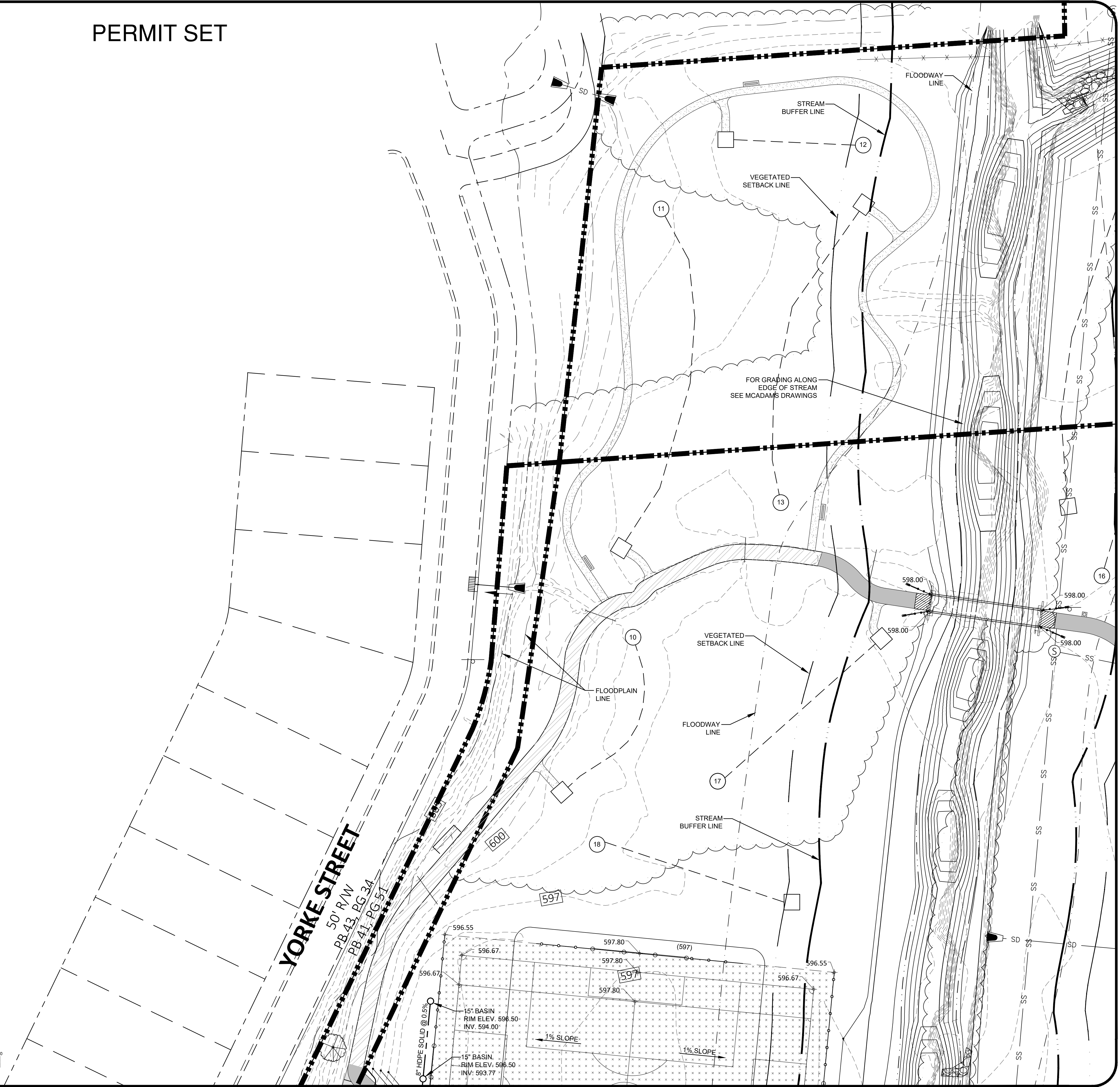
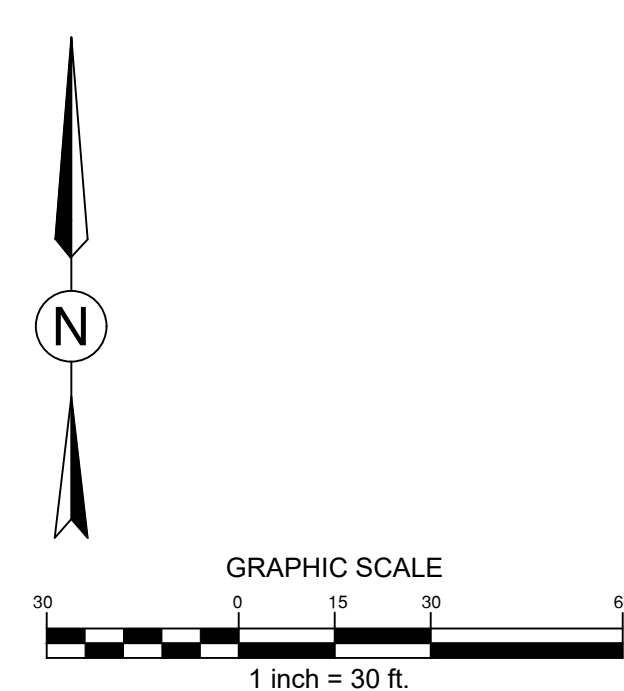
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|--|-----------------------------------|--|-----------------------|
| | PROPERTY BOUNDARY | | PROPOSED ASPHALT |
| | EXISTING CONTOUR | | PROPOSED GRASS FIELD |
| | FLOODWAY LINE | | PROPOSED GRAVEL TRAIL |
| | FLOODPLAIN LINE | | PROPOSED CONCRETE |
| | EXISTING FENCE | | |
| | EXISTING SANITARY SEWER LINE | | |
| | EXISTING SEWER MANHOLE | | |
| | EXISTING STORM DRAIN LINE | | |
| | EXISTING RIGHT OF WAY | | |
| | EXISTING TREE LINE | | |
| | EXISTING CREEK BANK | | |
| | ADJACENT PROPERTY LINE | | |
| | CATCH BASIN | | |
| | EXISTING DROP INLET | | |
| | EXISTING OVERHEAD UTILITY LINE | | |
| | EXISTING UNDERGROUND UTILITY LINE | | |
| | EXISTING UTILITY POLE | | |
| | EXISTING ELECTRIC BOX | | |
| | EXISTING LIGHT POLE | | |
| | SLOPE DIRECTION | | |
| | PROPOSED 5' CONTOUR | | |
| | PROPOSED 1' CONTOUR | | |
| | PROPOSED CATCH BASIN | | |
| | PROPOSED COLLECTOR PIPE | | |
| | PROPOSED SPOT ELEVATION | | |
| | TOP OF CURB | | |
| | BOTTOM OF CURB | | |
| | TOP OF RAMP | | |
| | BOTTOM OF RAMP | | |
| | TOP OF STEPS | | |
| | BOTTOM OF STEPS | | |

PERMIT SET

YORKE STREET
 50' R/W
 PB 43 PG 34
 PB 41 PG 51



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
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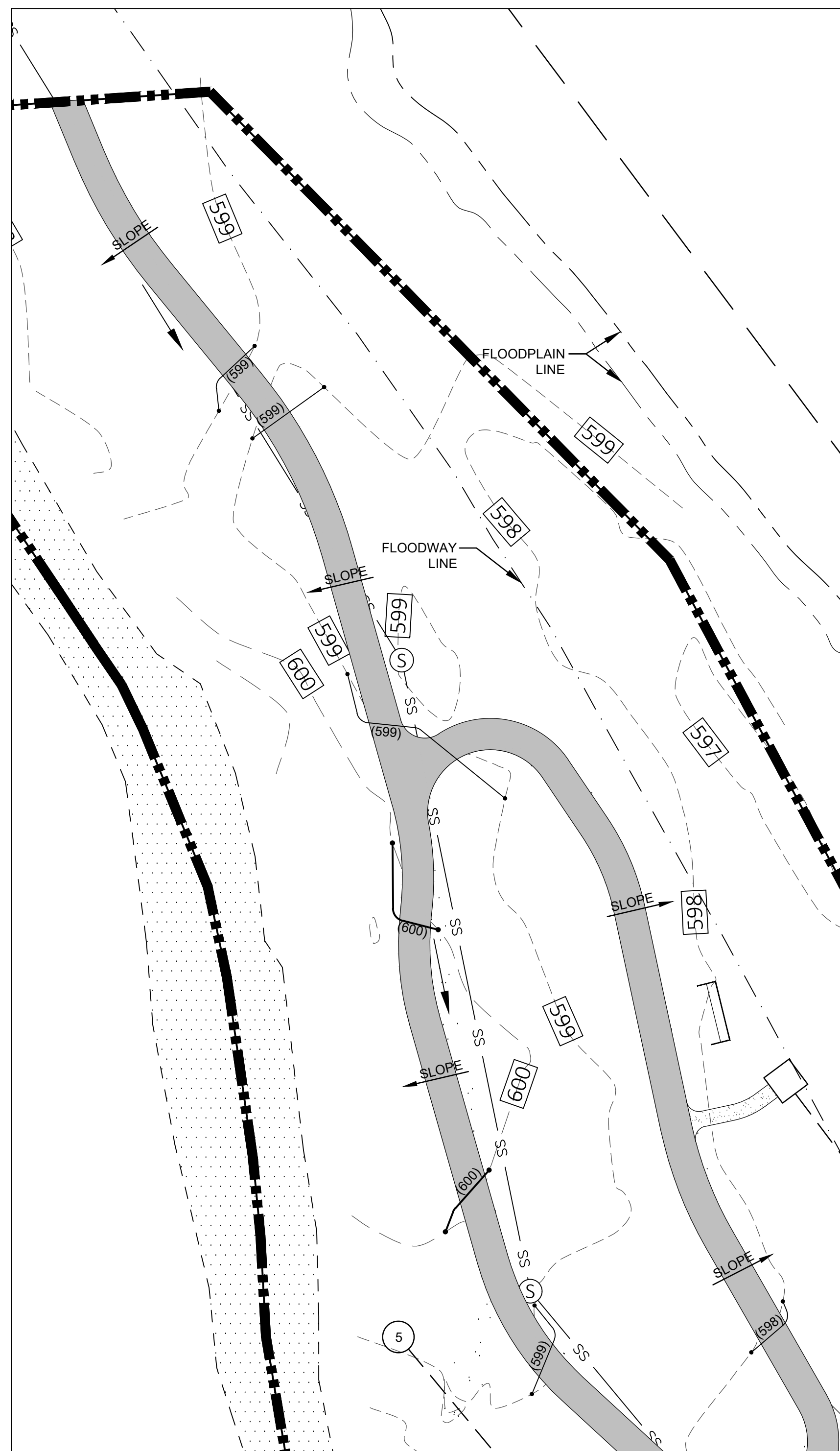
REVISIONS:

6-14-2023	ADDENDUM 1
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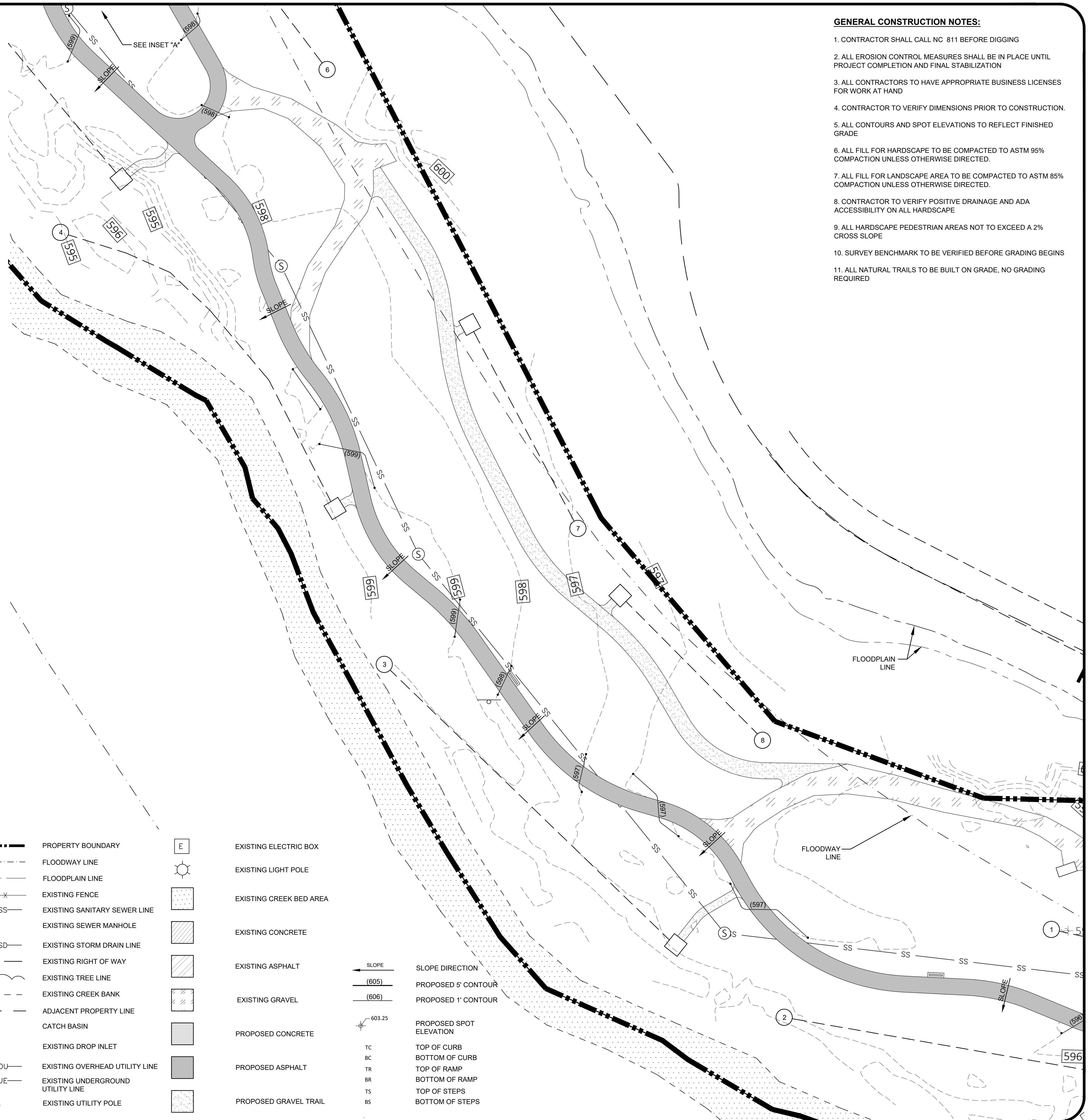
CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
 DATE: 5-4-23
 SHEET NAME: SPORT FIELD AND DISC GOLF GRADING PLAN
 SHEET NO: G105



INSET "A"



- GENERAL CONSTRUCTION NOTES:**
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Fort Mill, SC 29715
(716) 803.981.4330
www.thedoddstudio.com

REVISIONS:

6-14-2023	ADDENDUM 1
-----------	------------

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 5-4-23
SHEET NAME:
GREENWAY GRADING PLAN
SHEET NO:
G106

LEGEND

	PROPERTY BOUNDARY		EXISTING ELECTRIC BOX
	FLOODWAY LINE		EXISTING LIGHT POLE
	FLOODPLAIN LINE		EXISTING CREEK BED AREA
	EXISTING FENCE		EXISTING CONCRETE
	EXISTING SANITARY SEWER LINE		EXISTING ASPHALT
	EXISTING SEWER MANHOLE		EXISTING GRAVEL
	EXISTING STORM DRAIN LINE		PROPOSED CONCRETE
	EXISTING RIGHT OF WAY		PROPOSED ASPHALT
	EXISTING TREE LINE		PROPOSED GRAVEL TRAIL
	EXISTING CREEK BANK		
	ADJACENT PROPERTY LINE		
	CATCH BASIN		
	EXISTING DROP INLET		
	EXISTING OVERHEAD UTILITY LINE		
	EXISTING UNDERGROUND UTILITY LINE		
	EXISTING UTILITY POLE		

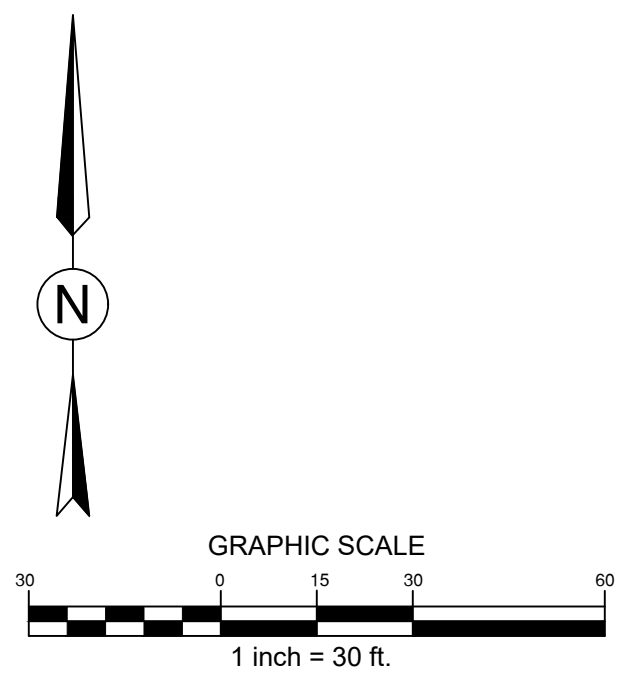
SLOPE

	SLOPE DIRECTION
	PROPOSED 5' CONTOUR
	PROPOSED 1' CONTOUR
	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
BC	BOTTOM OF CURB
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
TS	TOP OF STEPS
BS	BOTTOM OF STEPS

PERMIT SET



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

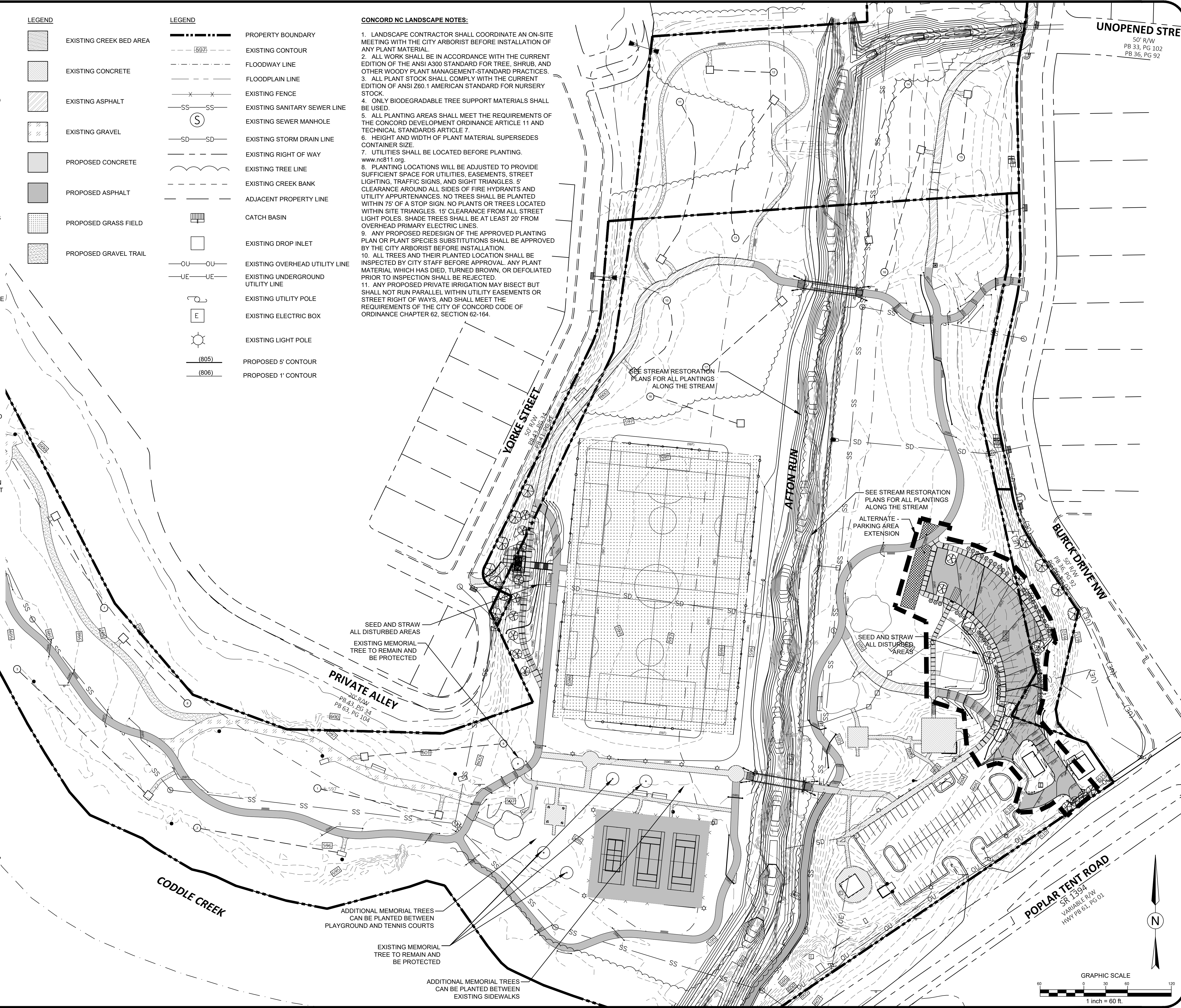


- PLANTING NOTES:**
1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 3" OF TOPSOIL.
 2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
 3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
 4. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
 5. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
 6. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
 7. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SHOWN.
 8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA (2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD (3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR AGREED UPON PERIOD OF TIME.
 12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
 13. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR. CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
 14. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
 15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
 16. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A HARDWOOD MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER TO A MINIMUM DEPTH OF TWO INCHES.
 17. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.

- LEGEND**
- EXISTING CREEK BED AREA
 - EXISTING CONCRETE
 - EXISTING ASPHALT
 - EXISTING GRAVEL
 - PROPOSED CONCRETE
 - PROPOSED ASPHALT
 - PROPOSED GRASS FIELD
 - PROPOSED GRAVEL TRAIL

- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING CONTOUR
 - FLOODWAY LINE
 - FLOODPLAIN LINE
 - EXISTING FENCE
 - EXISTING SANITARY SEWER LINE
 - EXISTING SEWER MANHOLE
 - EXISTING STORM DRAIN LINE
 - EXISTING RIGHT OF WAY
 - EXISTING TREE LINE
 - EXISTING CREEK BANK
 - ADJACENT PROPERTY LINE
 - CATCH BASIN
 - EXISTING DROP INLET
 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING UNDERGROUND UTILITY LINE
 - EXISTING UTILITY POLE
 - EXISTING ELECTRIC BOX
 - EXISTING LIGHT POLE
 - PROPOSED 5' CONTOUR
 - PROPOSED 1' CONTOUR

- CONCORD NC LANDSCAPE NOTES:**
1. LANDSCAPE CONTRACTOR SHALL COORDINATE AN ON-SITE MEETING WITH THE CITY ARBORIST BEFORE INSTALLATION OF ANY PLANT MATERIAL.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI A300 STANDARD FOR TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT-STANDARD PRACTICES.
 3. ALL PLANT STOCK SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK.
 4. ONLY BIODEGRADABLE TREE SUPPORT MATERIALS SHALL BE USED.
 5. ALL PLANTING AREAS SHALL MEET THE REQUIREMENTS OF THE CONCORD DEVELOPMENT ORDINANCE ARTICLE 11 AND TECHNICAL STANDARDS ARTICLE 7.
 6. HEIGHT AND WIDTH OF PLANT MATERIAL SUPERSEDES CONTAINER SIZE.
 7. UTILITIES SHALL BE LOCATED BEFORE PLANTING. www.nc811.org
 8. PLANTING LOCATIONS WILL BE ADJUSTED TO PROVIDE SUFFICIENT SPACE FOR UTILITIES, EASEMENTS, STREET LIGHTING, TRAFFIC SIGNS, AND SIGHT TRIANGLES. 5' CLEARANCE AROUND ALL SIDES OF FIRE HYDRANTS AND UTILITY APPURTENANCES. NO TREES SHALL BE PLANTED WITHIN 7'5" OF A STOP SIGN. NO PLANTS OR TREES LOCATED WITHIN SITE TRIANGLES. 15' CLEARANCE FROM ALL STREET LIGHT POLES. SHADE TREES SHALL BE AT LEAST 20' FROM OVERHEAD PRIMARY ELECTRIC LINES.
 9. ANY PROPOSED REDESIGN OF THE APPROVED PLANTING PLAN OR PLANT SPECIES SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ARBORIST BEFORE INSTALLATION.
 10. ALL TREES AND THEIR PLANTED LOCATION SHALL BE INSPECTED BY CITY STAFF BEFORE APPROVAL. ANY PLANT MATERIAL WHICH HAS DIED, TURNED BROWN, OR DEFOLIATED PRIOR TO INSPECTION SHALL BE REJECTED.
 11. ANY PROPOSED PRIVATE IRRIGATION MAY BISECT BUT SHALL NOT RUN PARALLEL WITHIN UTILITY EASEMENTS OR STREET RIGHT OF WAYS, AND SHALL MEET THE REQUIREMENTS OF THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, SECTION 62-164.

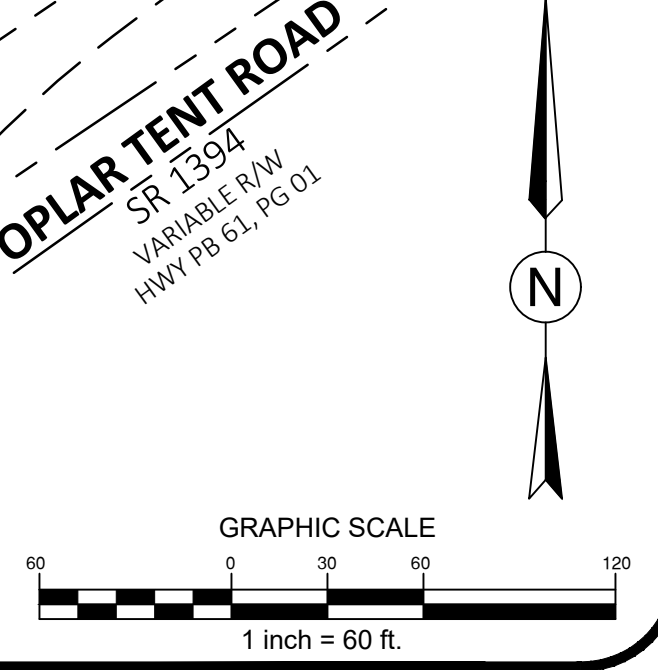


UNOPENED STREET
50' R/W
PB 33, PG 102
PB 36, PG 92

PERMIT SET



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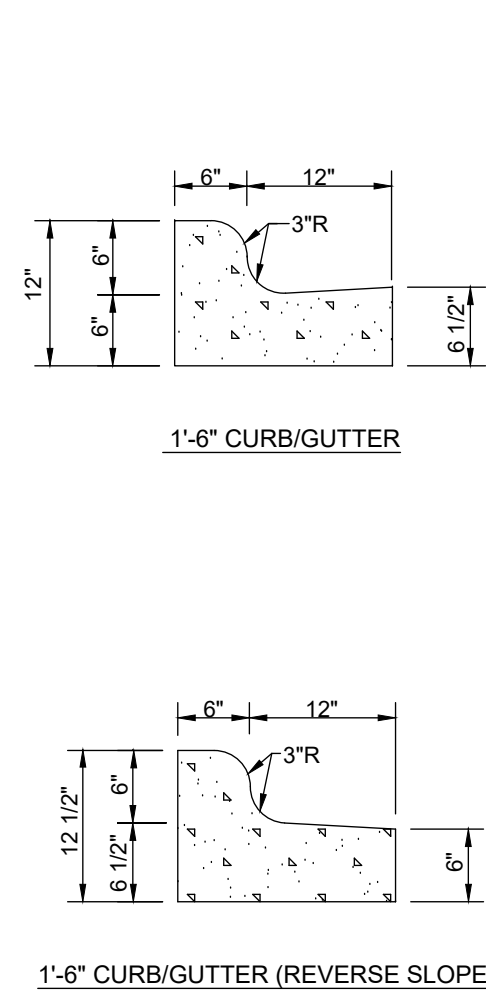
6-14-2023	ADDENDUM 1
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CITY OF CONCORD
35 CABARRIUS AVE. W
CONCORD, NORTH CAROLINA

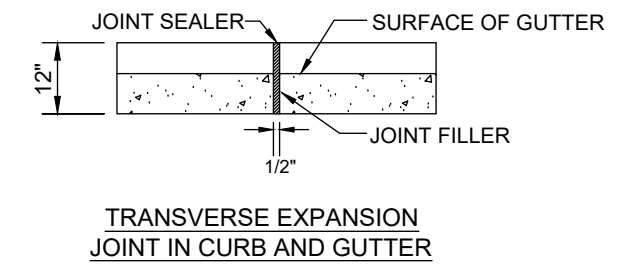
OWNER:

DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

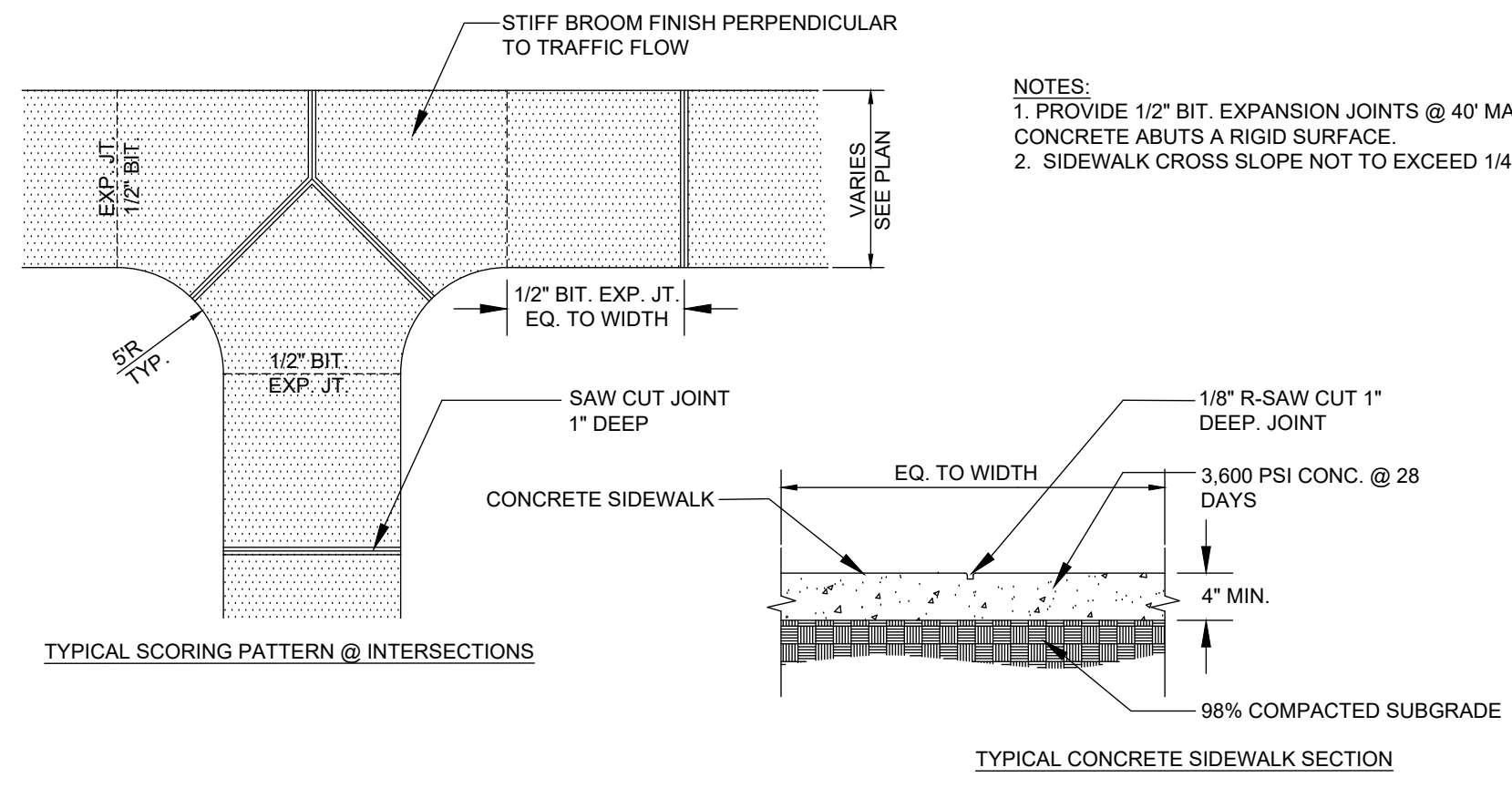
SCALE: 1" = 60'-0"
DATE: 5-4-23
SHEET NAME:
OVERALL PLANTING PLAN
SHEET NO:
P100



- GENERAL NOTES:
- CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
 - CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1.5" SHALL BE OBTAINED.
 - ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT SEALER. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
 - JOINTS SHALL MATCH LOCATIONS WITH JOINT IN ABUTTING SIDEWALK. CONCRETE SHALL BE 3600 PSI IN 28 DAYS.
 - CURBS SHALL BE DEPRESSED AT INTERSECTION TO PROVIDE FOR FUTURE WHEELCHAIR RAMP.
 - TOP 6" SUBGRADE BENEATH CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

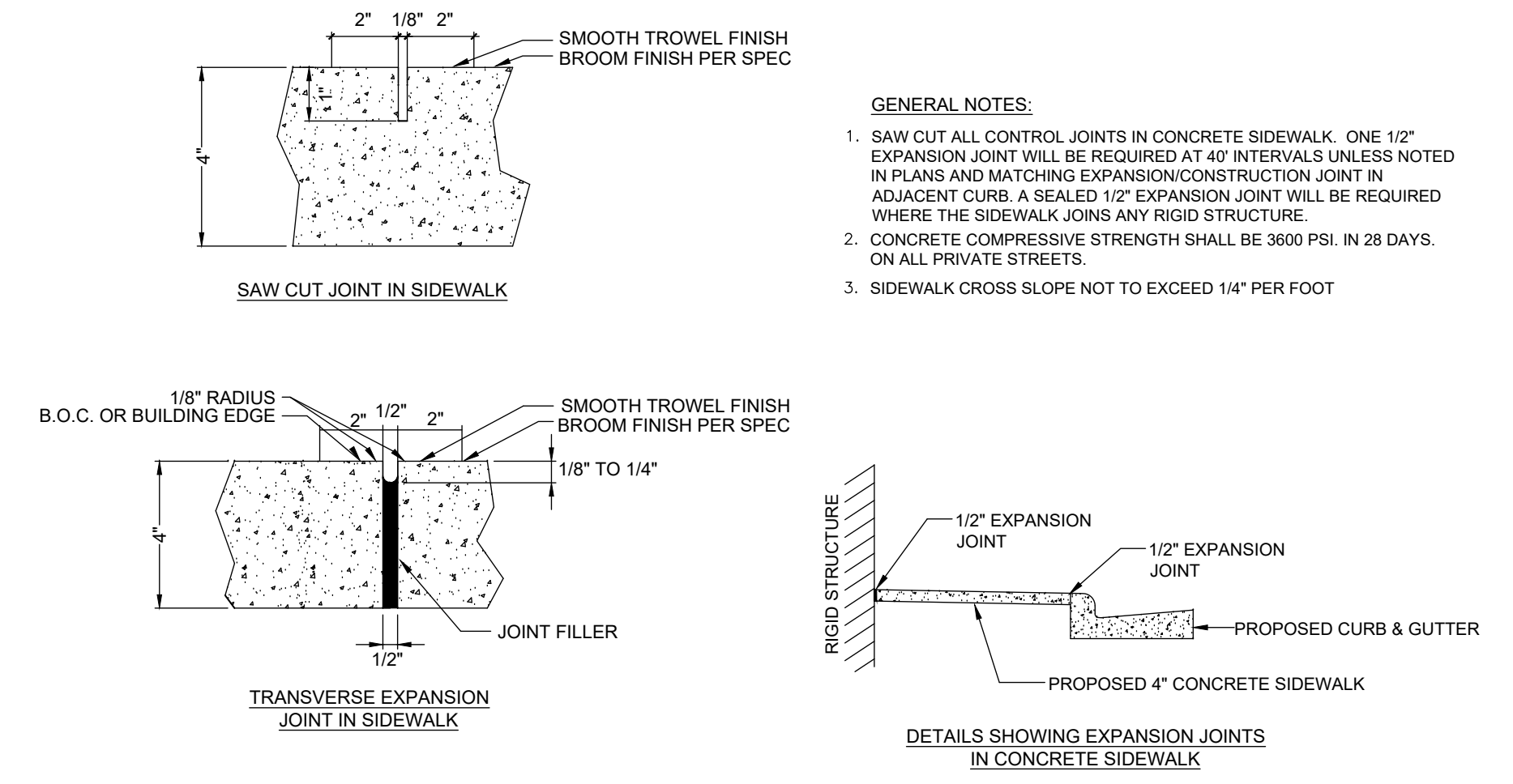


1 CURB AND GUTTER
NOT TO SCALE



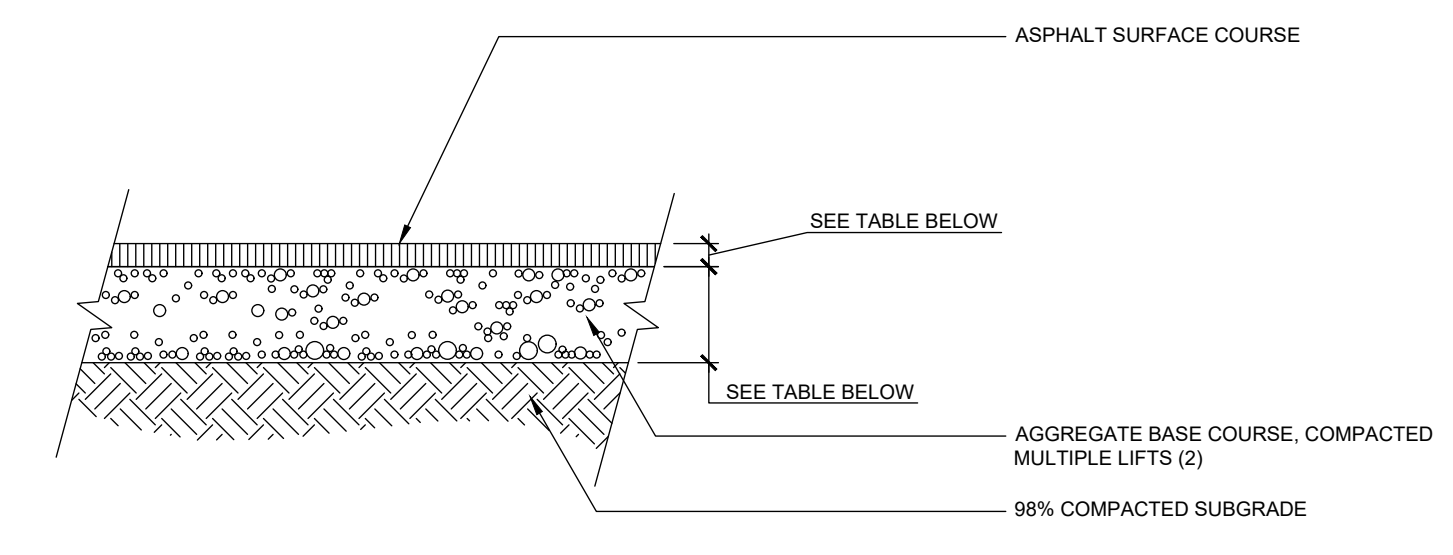
- NOTES:
- PROVIDE 1/2" BIT EXPANSION JOINTS @ 40' MAXIMUM AND WHEN CONCRETE ABUTS A RIGID SURFACE.
 - SIDEWALK CROSS SLOPE NOT TO EXCEED 1/4" PER FOOT.

2 CONCRETE SIDEWALK
NOT TO SCALE



- GENERAL NOTES:
- SAW CUT ALL CONTROL JOINTS IN CONCRETE SIDEWALK. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS UNLESS NOTED IN PLANS AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI. IN 28 DAYS. ON ALL PRIVATE STREETS.
 - SIDEWALK CROSS SLOPE NOT TO EXCEED 1/4" PER FOOT.

3 JOINTS
NOT TO SCALE



ASPHALT PAVING	NOTE	DEPTH
1. SURFACE COURSE	S9.5b	2"
2. BASE COURSE	C.A.B.C.	6"

4 ASPHALT PAVING
NOT TO SCALE

ACCESSIBLE PARKING REQUIREMENTS

TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	2
301 TO 400	8	2
401 TO 500	9	2
501 TO 1000	2% OF TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES
1001 AND OVER	2% PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 6 ACCESSIBLE SPACES

NOTES:

- ALL ACCESSIBLE SIGNS (RP-8P, RP-8, RP-1, AND 50.10C) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (PER MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
- IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA. MAINTAIN MIN. 4" WIDE CONTINUOUS PASSAGE.
- VERTICAL CLEARANCE FOR VANS MUST BE GREATER THAN 98-INCHES.
- THIS DETAIL IS TO PROVIDE GENERAL GUIDANCE FOR PARKING LAYOUT AND DESIGN. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT AND NC BUILDING CODE FOR ADDITIONAL INFORMATION.

ACCESSIBLE PARKING AND SIGNAGE STANDARDS
3-2022
DRV-120
SHEET 1 OF 1

5 ADA PARKING
NOT TO SCALE

STANDARD SIZE SPACES

A	B	C	D	E	F	G
45'	9.0'	18.0'	12.0' ONE-WAY	8.0'	51.0'	2.0/4.0'
60'	9.0'	18.0'	18.0' ONE-WAY	8.0'	58.0'	2.0/4.0'
90'	9.0'	18.0'	24.0' TWO-WAY	8.0'	60.0'	2.0/4.0'

COMPACT SPACES

A	B	C	D	E	F	G
45'	8.0'	16.0'	N/A	8.0'	N/A	1.5/3.0'
60'	8.0'	16.0'	N/A	8.0'	N/A	1.5/3.0'
90'	8.0'	16.0'	N/A	8.0'	N/A	1.5/3.0'

NOTES:

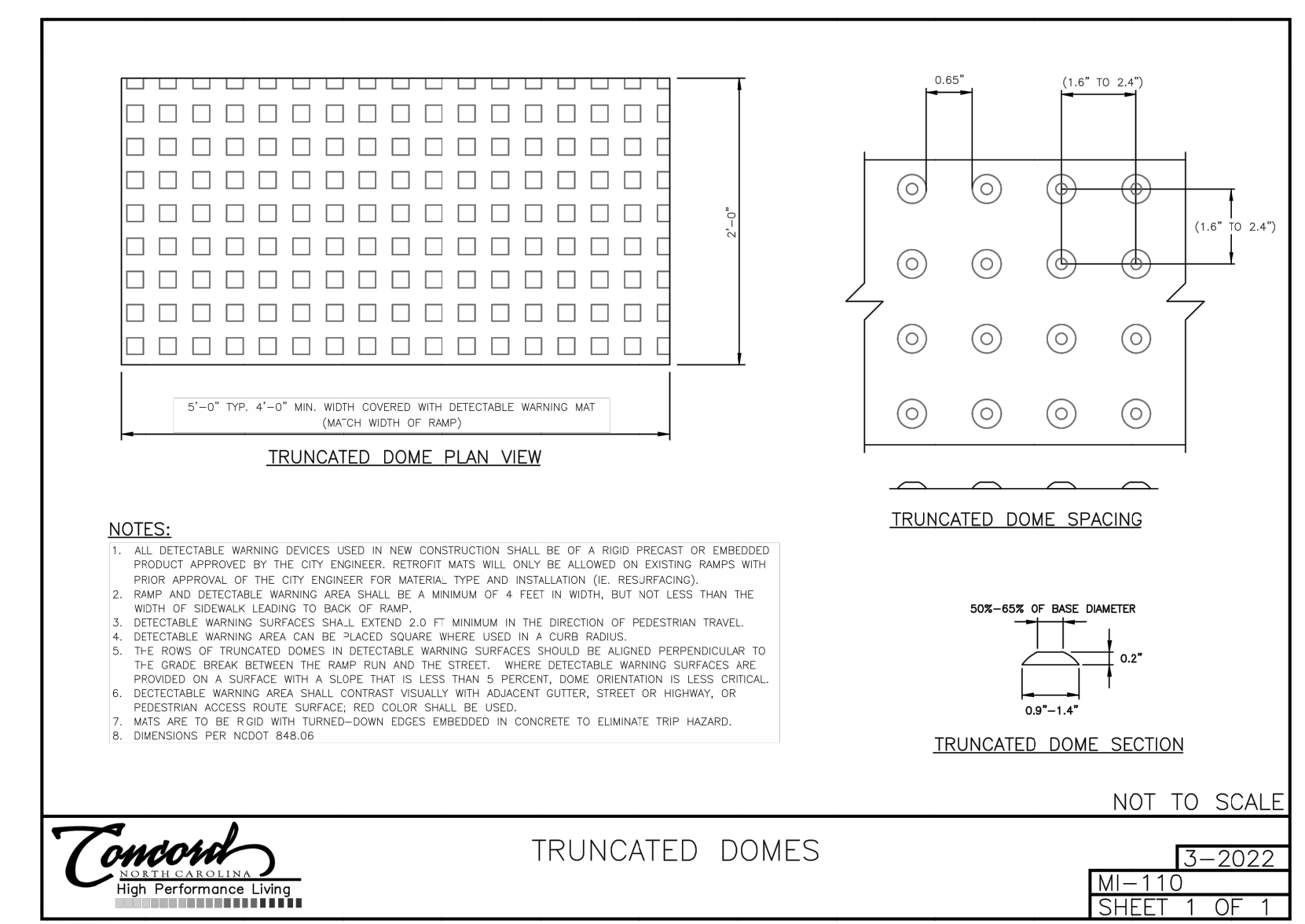
- PARALLEL PARKING SPACES SHALL BE 9' BY 24' WITH A 20' TWO-WAY ACCESS, OR A 12' ONE-WAY ACCESS.
- REFER TO STANDARD DRV-120 FOR ADA PARKING AND SIGNAGE STANDARDS.

KEY:

- PARKING ANGLE
- STALL WIDTH
- STALL DEPTH
- ASILE WIDTH
- PLANTING ISLAND WIDTH (MIN. WIDTH SHOWN, REFER TO ARTICLE 7 FOR MIN. AREA)
- PARKING BAY WIDTH
- BUMPER OVERHANG (FRONT/REAR)

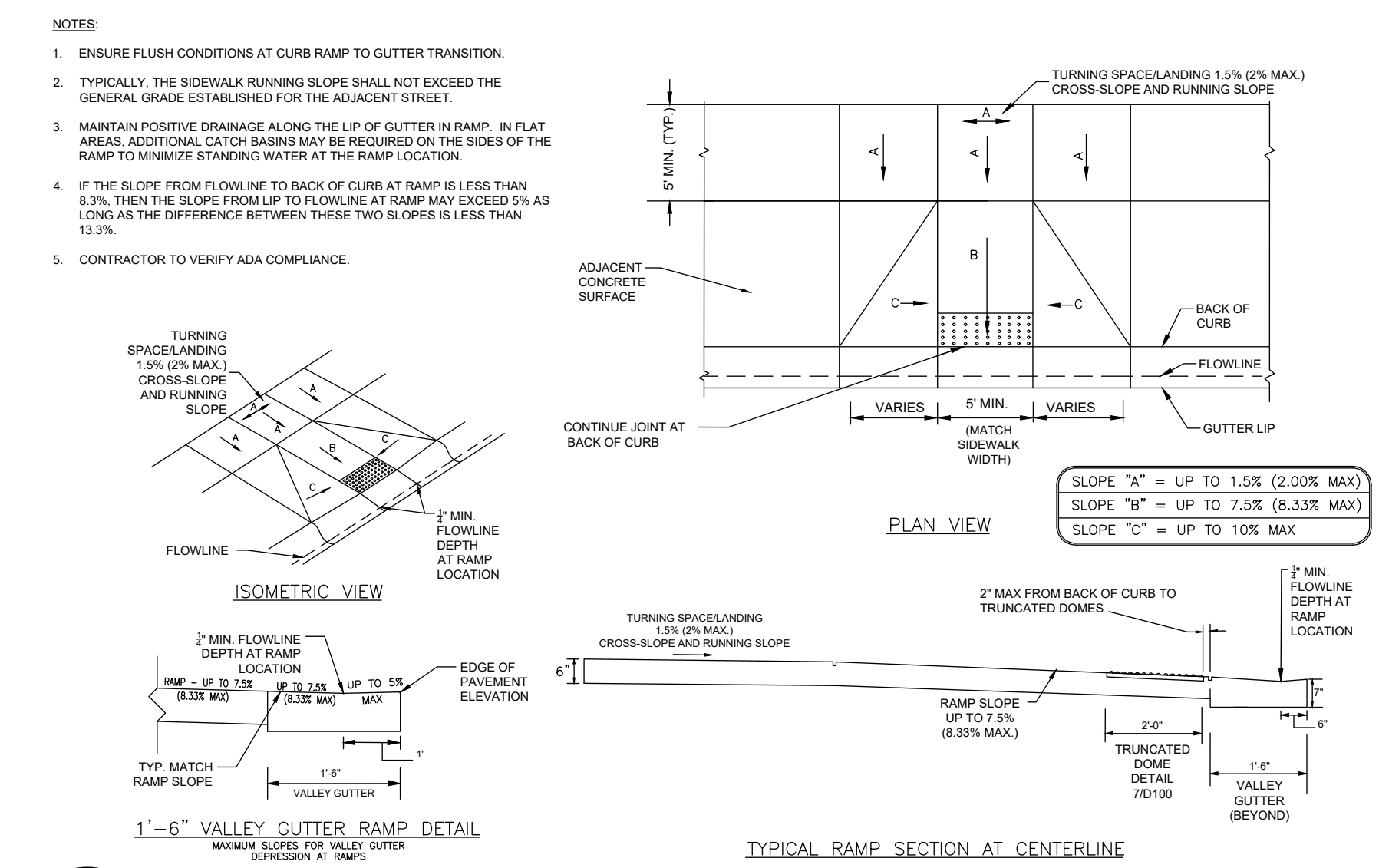
STANDARD PARKING DIMENSIONS
3-2022
DRV-121
SHEET 1 OF 1

6 PARKING STANDARDS
NOT TO SCALE



- NOTES:
- ALL DETECTABLE WARNING DEVICES USED IN NEW CONSTRUCTION SHALL BE OF A RIGID PRECAST OR EMBEDDED PRODUCT APPROVED BY THE CITY ENGINEER. RETRIEVE MATS WILL ONLY BE ALLOWED ON EXISTING RAMPS WITH PRIOR APPROVAL OF THE CITY ENGINEER FOR MATERIAL, TYPE AND INSTALLATION (E. RESURFACING).
 - RAMP AND DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET IN WIDTH, BUT NOT LESS THAN THE WIDTH OF SIDEWALK LEADING TO BACK OF RAMP.
 - DETECTABLE WARNING SURFACES SHALL BE 2.5" WIDE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
 - DETECTABLE WARNING AREA CAN BE PLACED SQUARE WHERE USED IN A CURB RADIUS.
 - THE ROWS OF TRUNCATED DOMES IN DETECTABLE WARNING SURFACES SHOULD BE ADJUSTED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP RUN AND THE STREET. WHERE DETECTABLE WARNING SURFACES ARE PROVIDED ON A SURFACE WITH A SLOPE THAT IS LESS THAN 5 PERCENT, DOME ORIENTATION IS LESS CRITICAL.
 - DETECTABLE WARNING AREA SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS SURFACE. RED COLOR SHALL BE USED.
 - MATS ARE TO BE 8.00" WITH TURNED-DOWN EDGES EMBEDDED IN CONCRETE TO ELIMINATE TRIP HAZARD.
 - DIMENSIONS PER MCDOT 848-06.

7 TRUNCATED DOMES
NOT TO SCALE



8 PERPENDICULAR CURB RAMP
NOT TO SCALE

9 RESERVED
NOT TO SCALE

PERMIT SET

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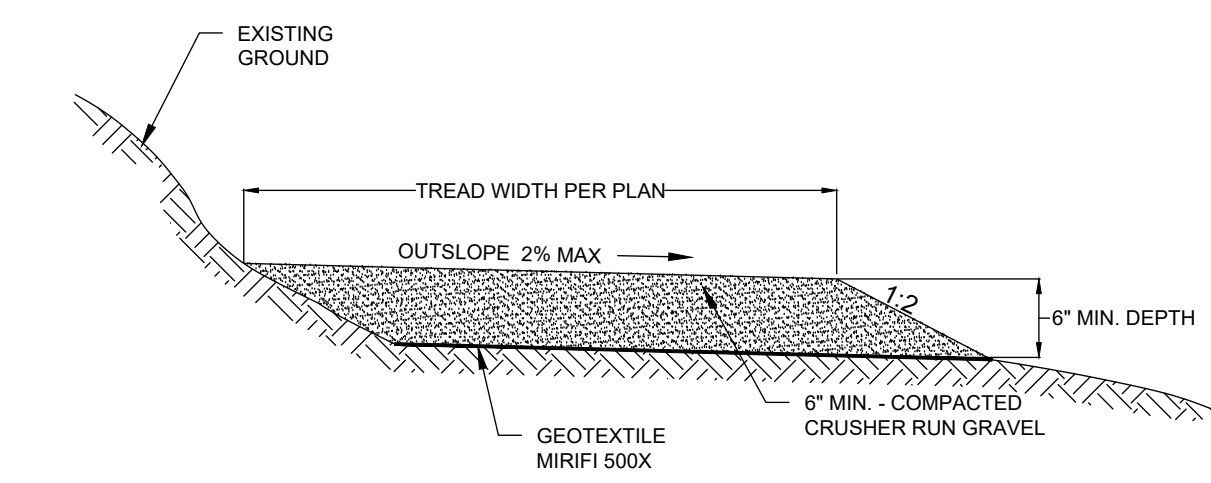


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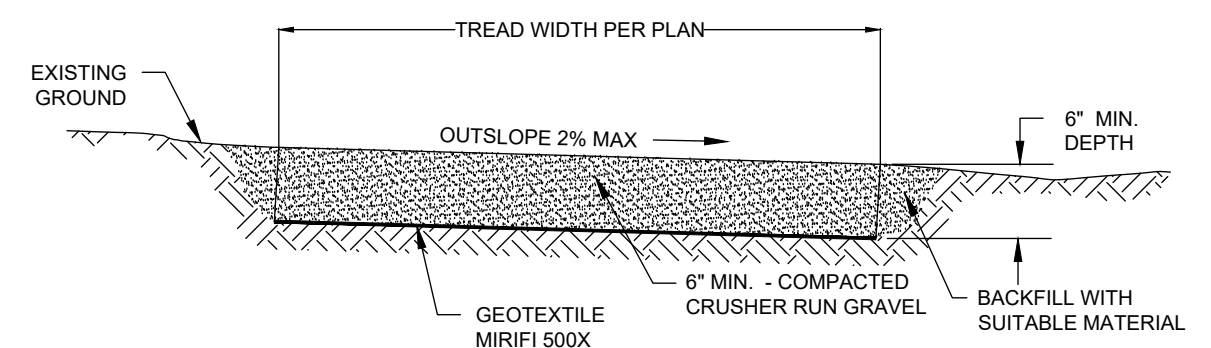
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME:
DETAILS
SHEET NO:
D100

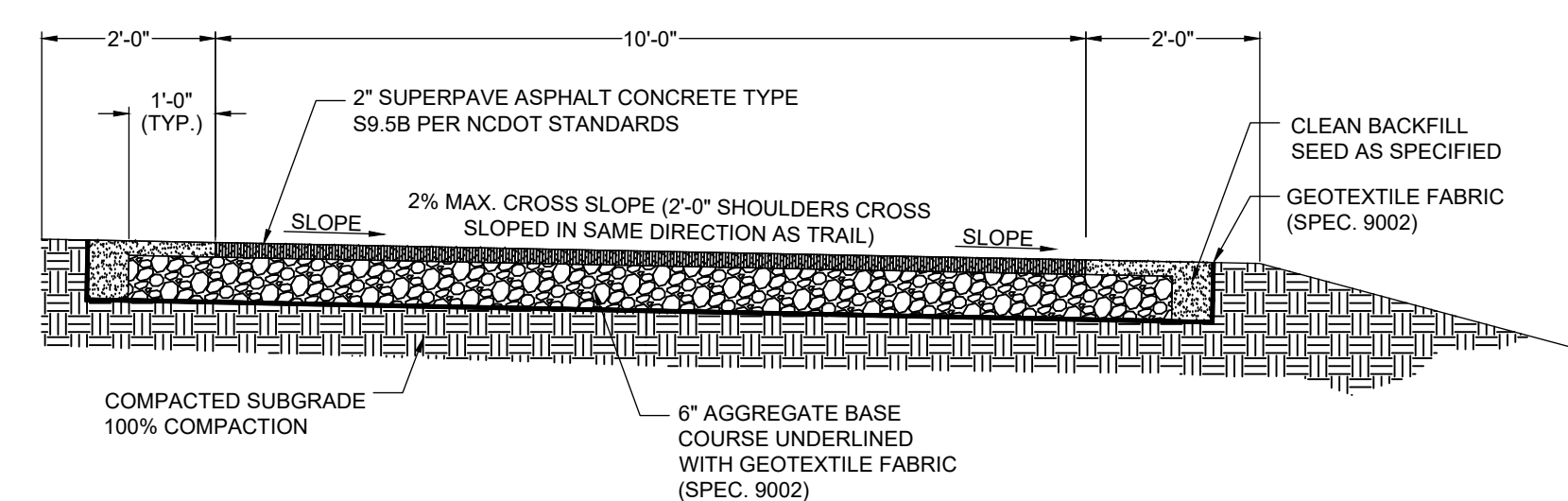


A OUTSLOPED SECTION



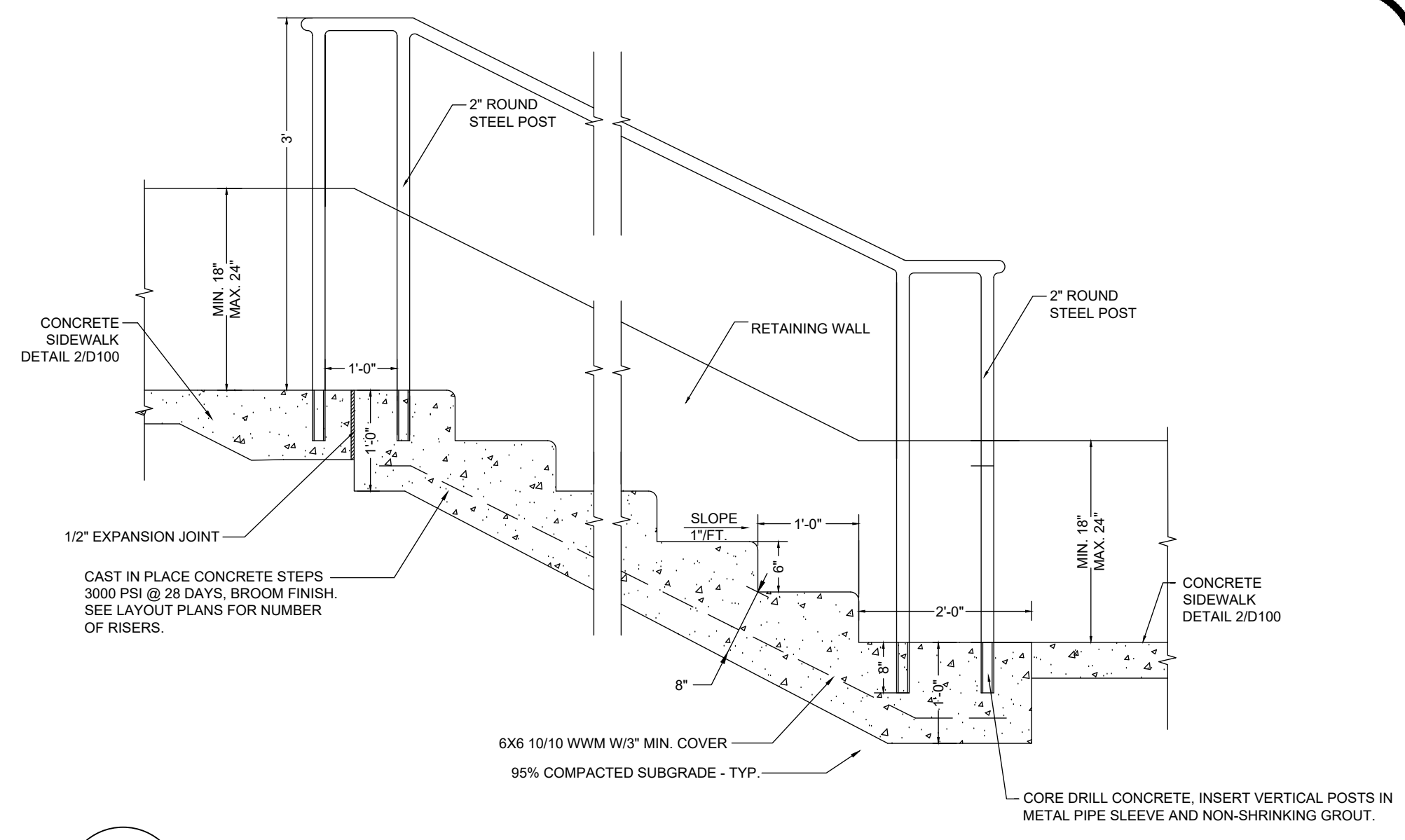
B EXCAVATED SECTION

1 GRAVEL TRAIL
NOT TO SCALE

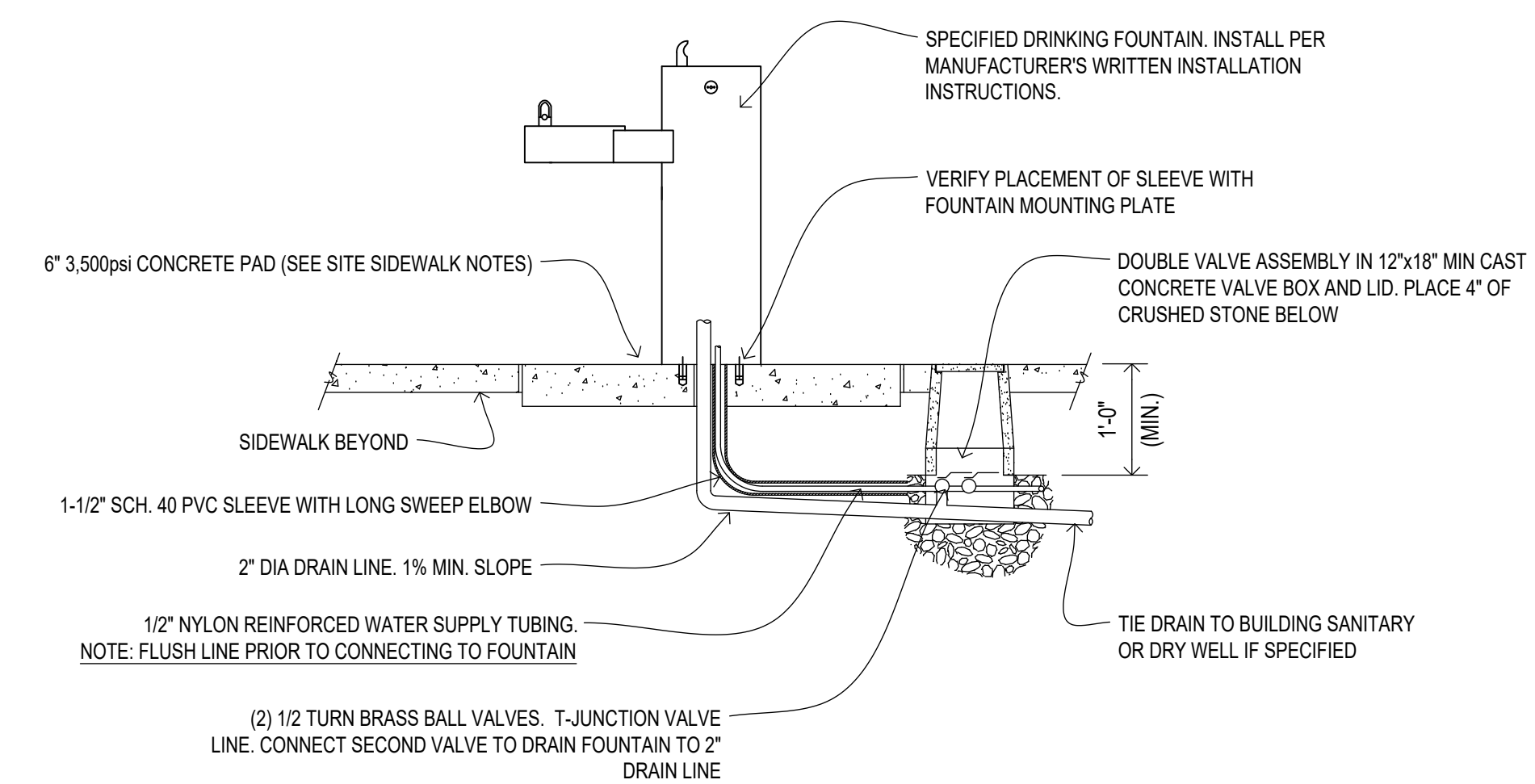


- NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
 2. NO ABOVE GROUND UTILITIES OR UTILITY SURFACE COVERS/PLATES/MANHOLES SHALL BE LOCATED WITHIN TRAIL AND SHALL BE MINIMUM 2 FEET FROM THE EDGE OF TRAIL. RAISED MANHOLES SHALL BE MINIMUM 4 FEET FROM TRAIL EDGE.
 3. ALL TRAILS SHALL BE LOCATED MINIMUM 5 FEET FROM THE BACK OF CURB.
 4. SIDE SLOPES SHALL NOT EXCEED 3:1. CUT & FILL SLOPES SHALL TIE INTO EXISTING SLOPES TO CREATE AN EVEN TRANSITION.
 5. CROSS SLOPE TYPICALLY TO LOW SIDE BUT CROSS SLOPE TO INSIDE OF DOWNHILL CURVES, WITH GRADUAL TRANSITIONS BETWEEN ANY CROSS SLOPE DIRECTION CHANGES.

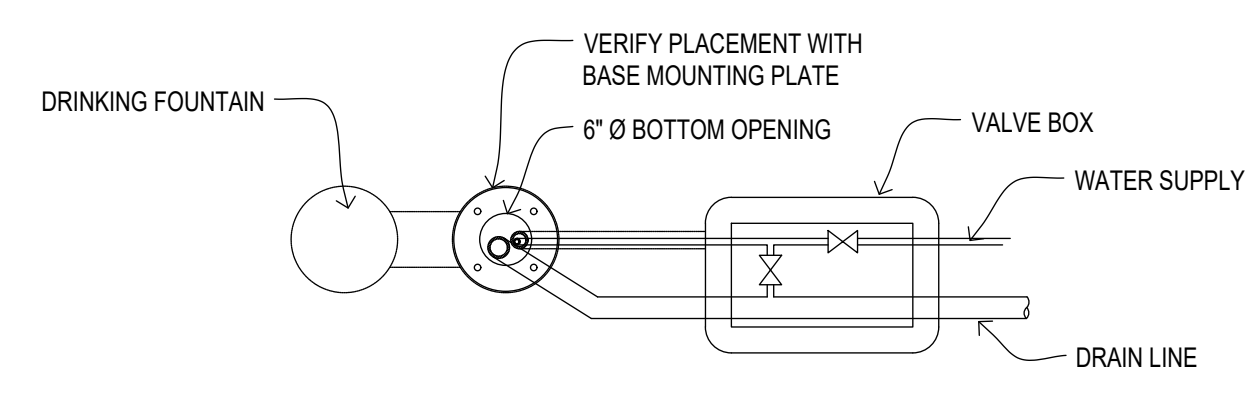
2 ASPHALT TRAIL
NOT TO SCALE



3 CONCRETE STEPS
NOT TO SCALE



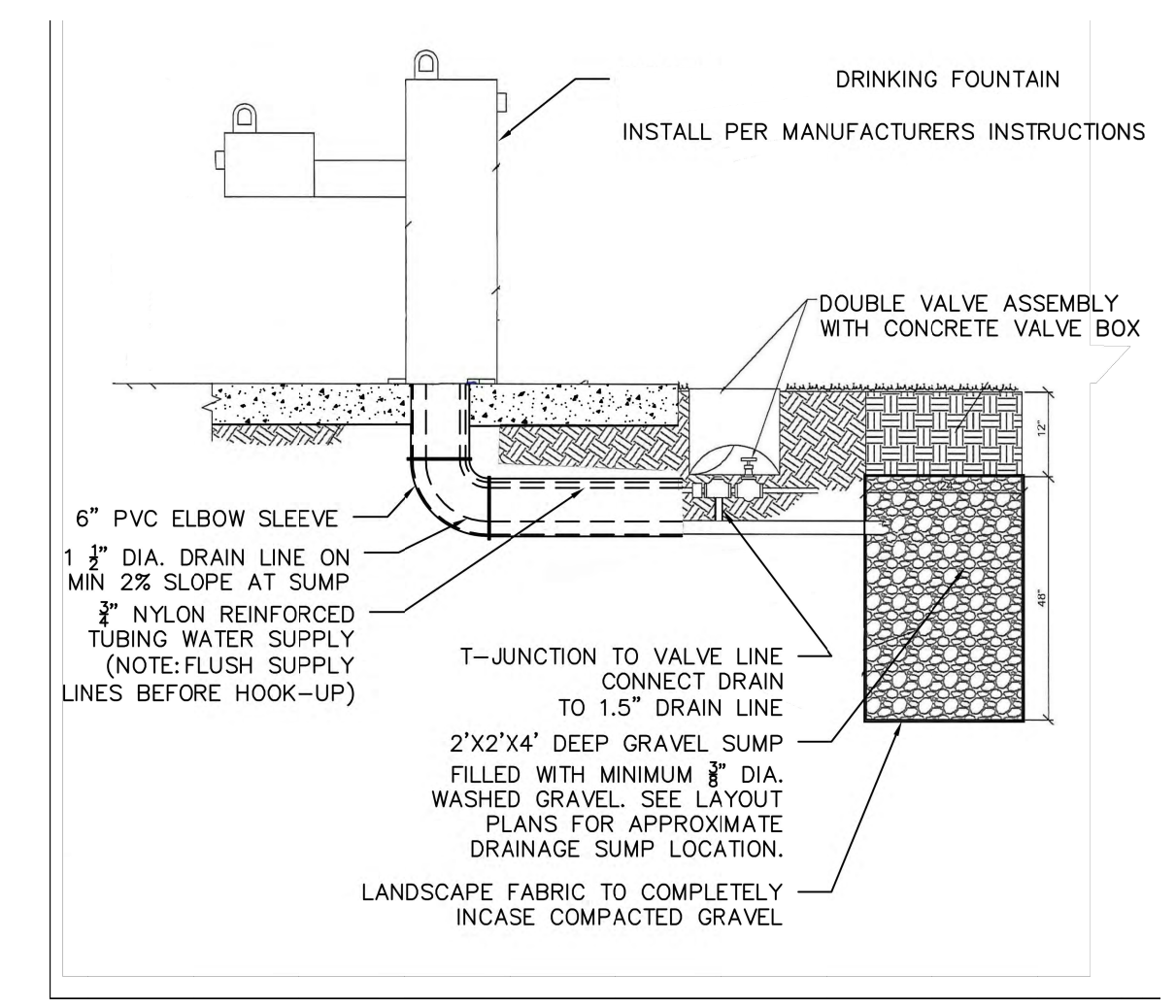
SECTION VIEW



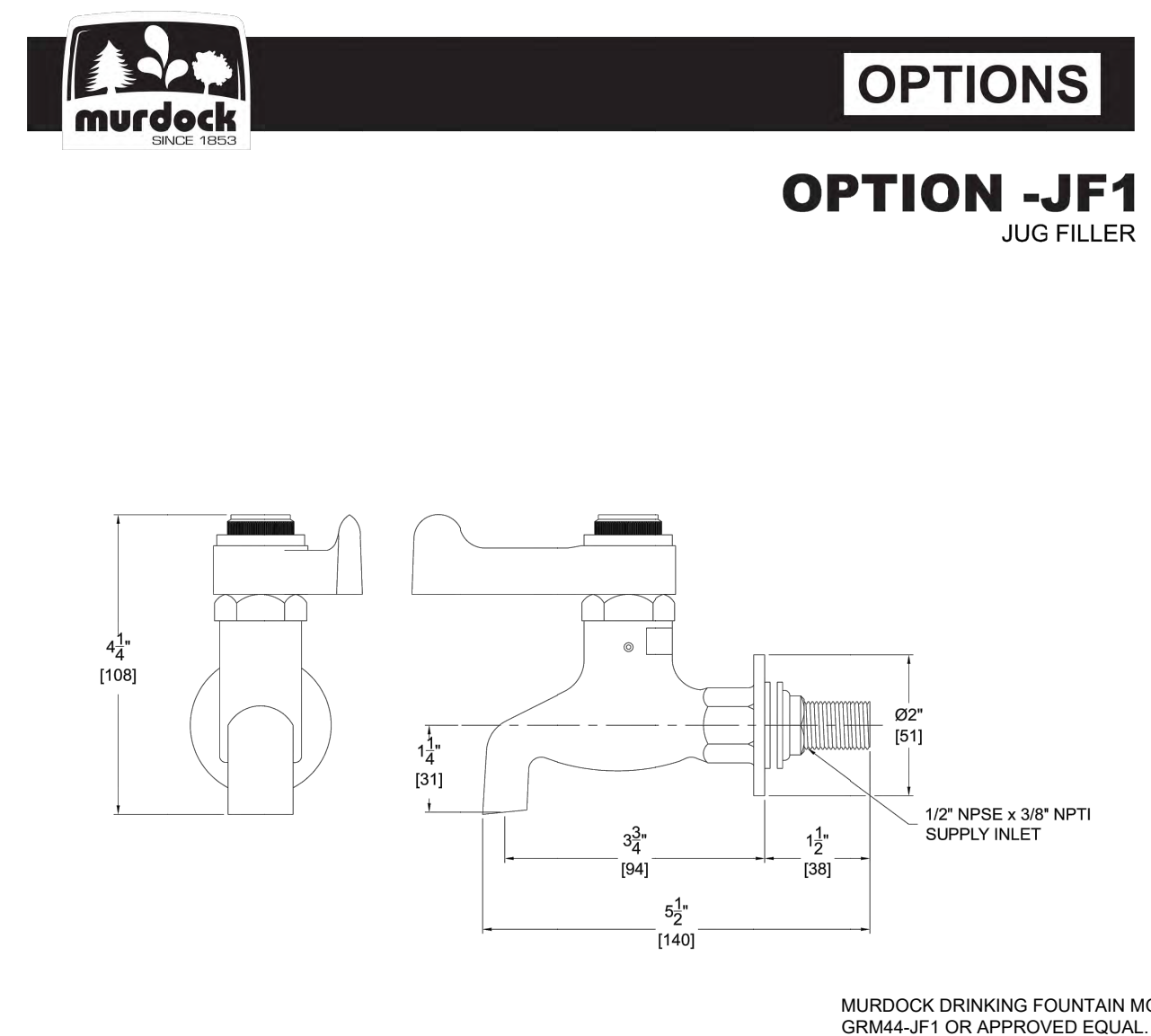
PLAN VIEW

MURDOCK DRINKING FOUNTAIN MODEL GRM44-JF1 OR APPROVED EQUAL.

4 DRINKING FOUNTAIN
NOT TO SCALE

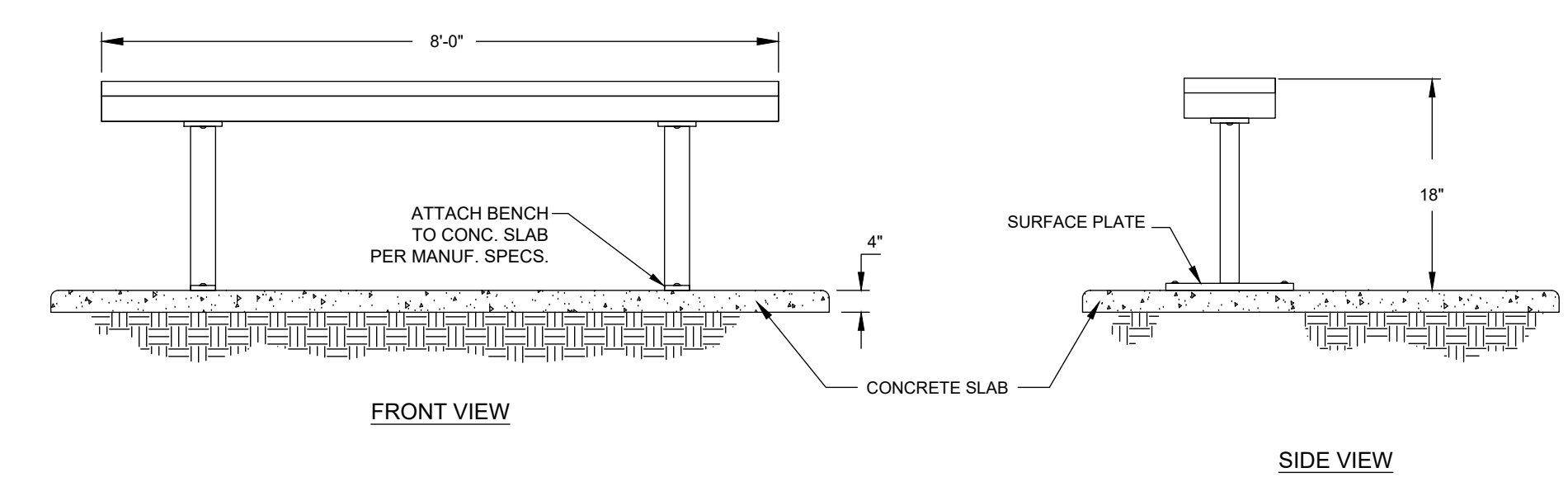


5 DRINKING FOUNTAIN DRYWELL
NOT TO SCALE



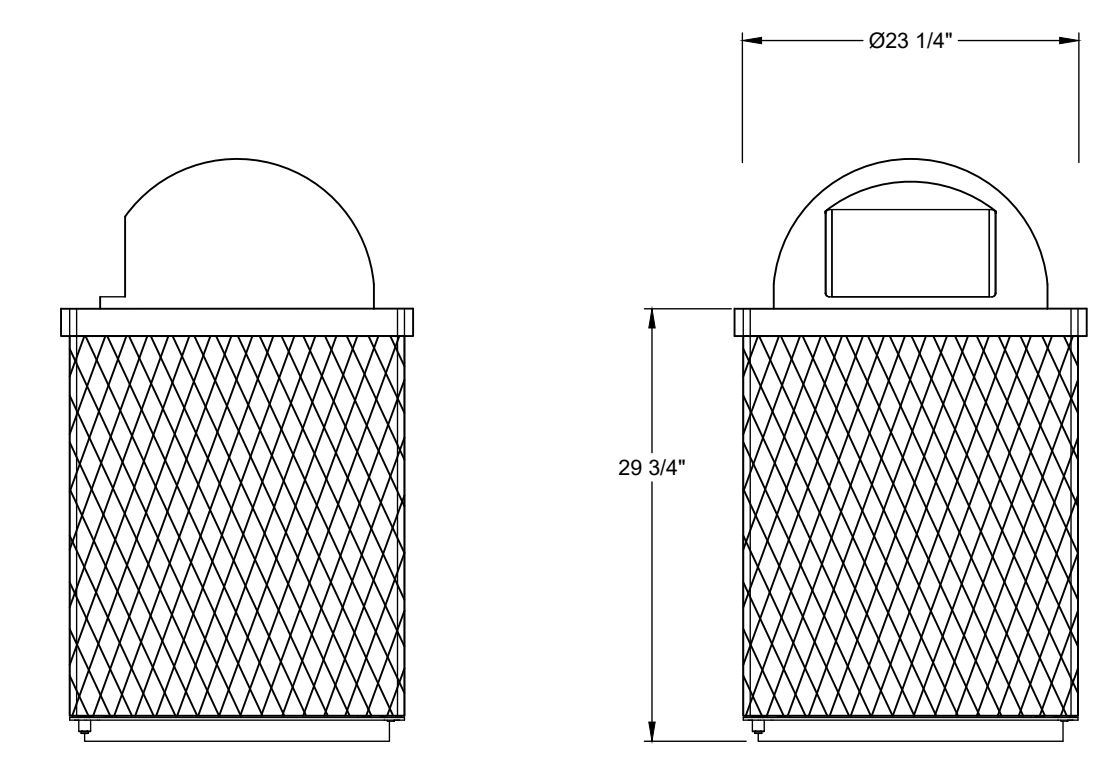
OPTIONS
OPTION -JF1
JUG FILLER

7 JUG FILLER
NOT TO SCALE



- NOTES:**
- 1) BENCH WILL BE SUPERIOR RECREATIONAL PRODUCTS ITEM B8ULSM-POLY.
 - 2) BENCHES WILL BE OWNER PROVIDED, BUT CONTRACTOR WILL BE RESPONSIBLE FOR ASSEMBLY AND INSTALLATION ON CONCRETE SLAB.

6 BENCH
NOT TO SCALE



- NOTES:**
- 1) TRASH RECEPTACLE WILL BE SUPERIOR RECREATIONAL PRODUCTS ITEM TR32UL WITH PLASTIC LINER (LINER32) AND DOME TOP ASSEMBLY (DOME32).
 - 2) TRASH RECEPTACLE WILL BE OWNER PROVIDED, BUT CONTRACTOR WILL BE RESPONSIBLE FOR ASSEMBLY AND INSTALLATION ON CONCRETE SLAB.

8 TRASH RECEPTACLE
NOT TO SCALE

PERMIT SET

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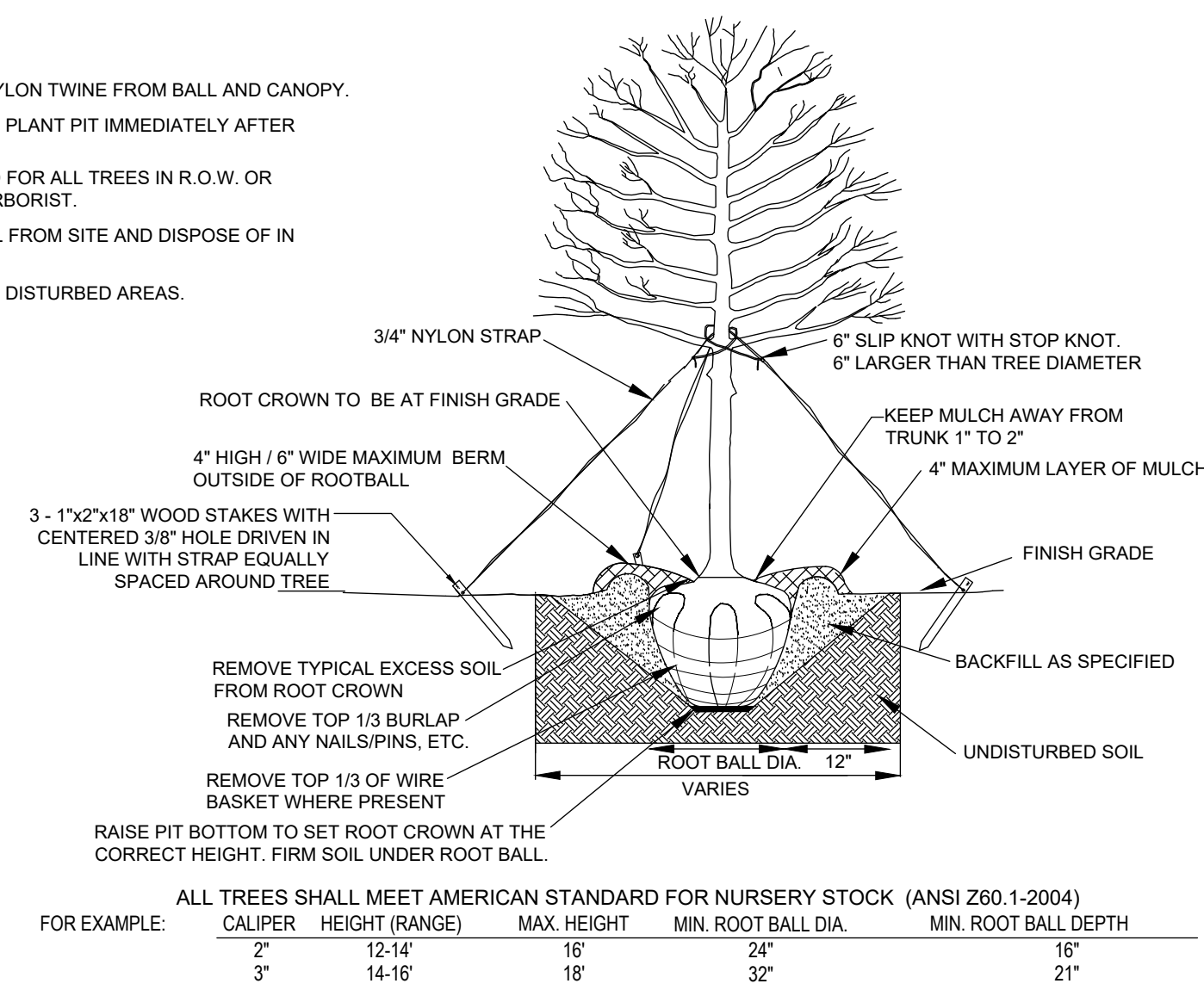
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME: DETAILS
SHEET NO: D101

NOTES:

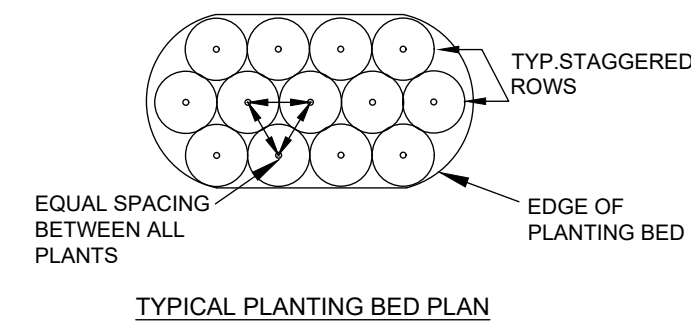
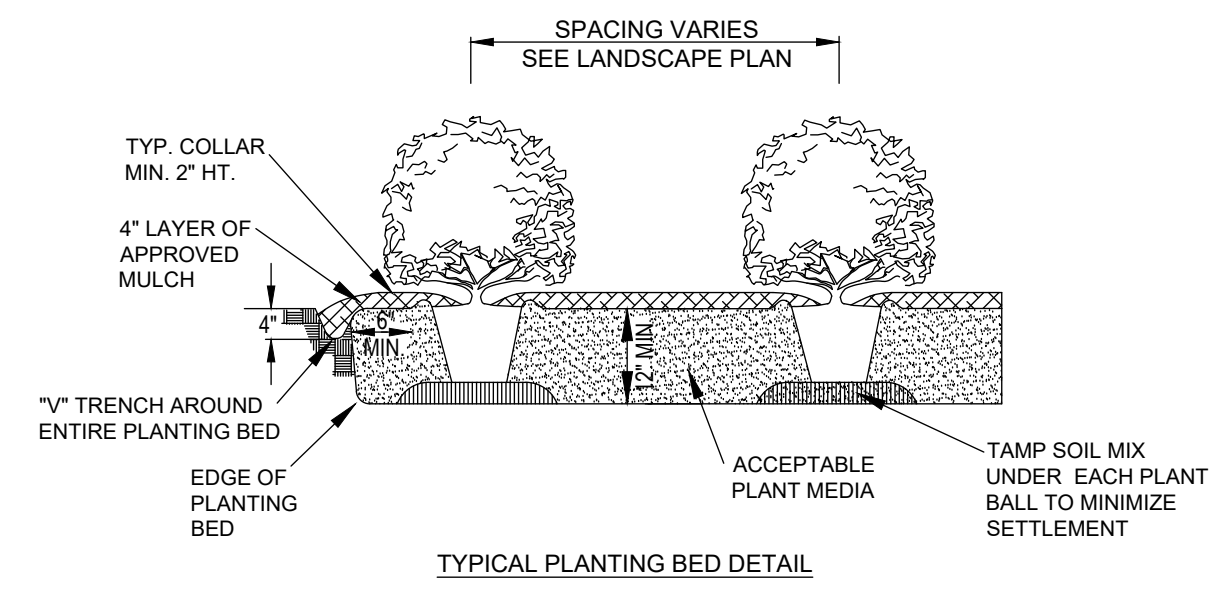
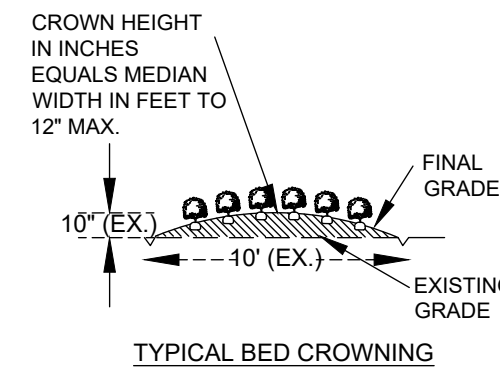
1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. STAKING IS REQUIRED FOR ALL TREES IN R.O.W. OR UPON REQUEST OF ARBORIST.
4. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
5. RESEED UNMULCHED, DISTURBED AREAS.



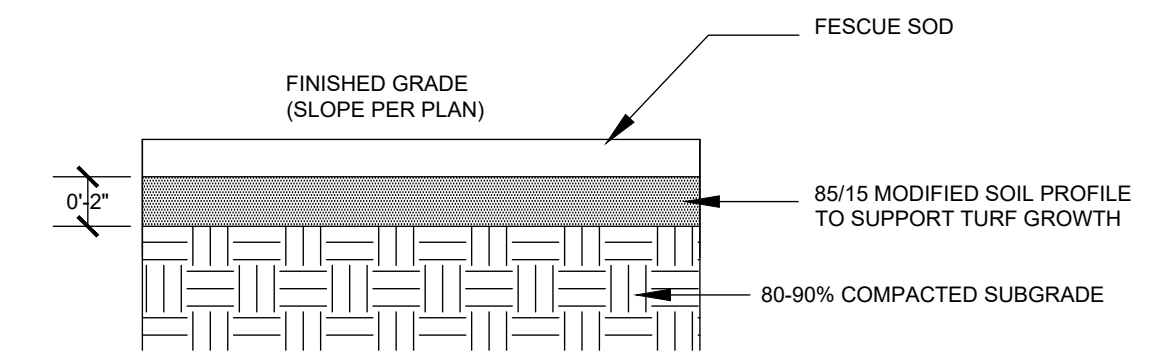
1 TREE PLANTING
NOT TO SCALE

NOTES:

1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS AT FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.

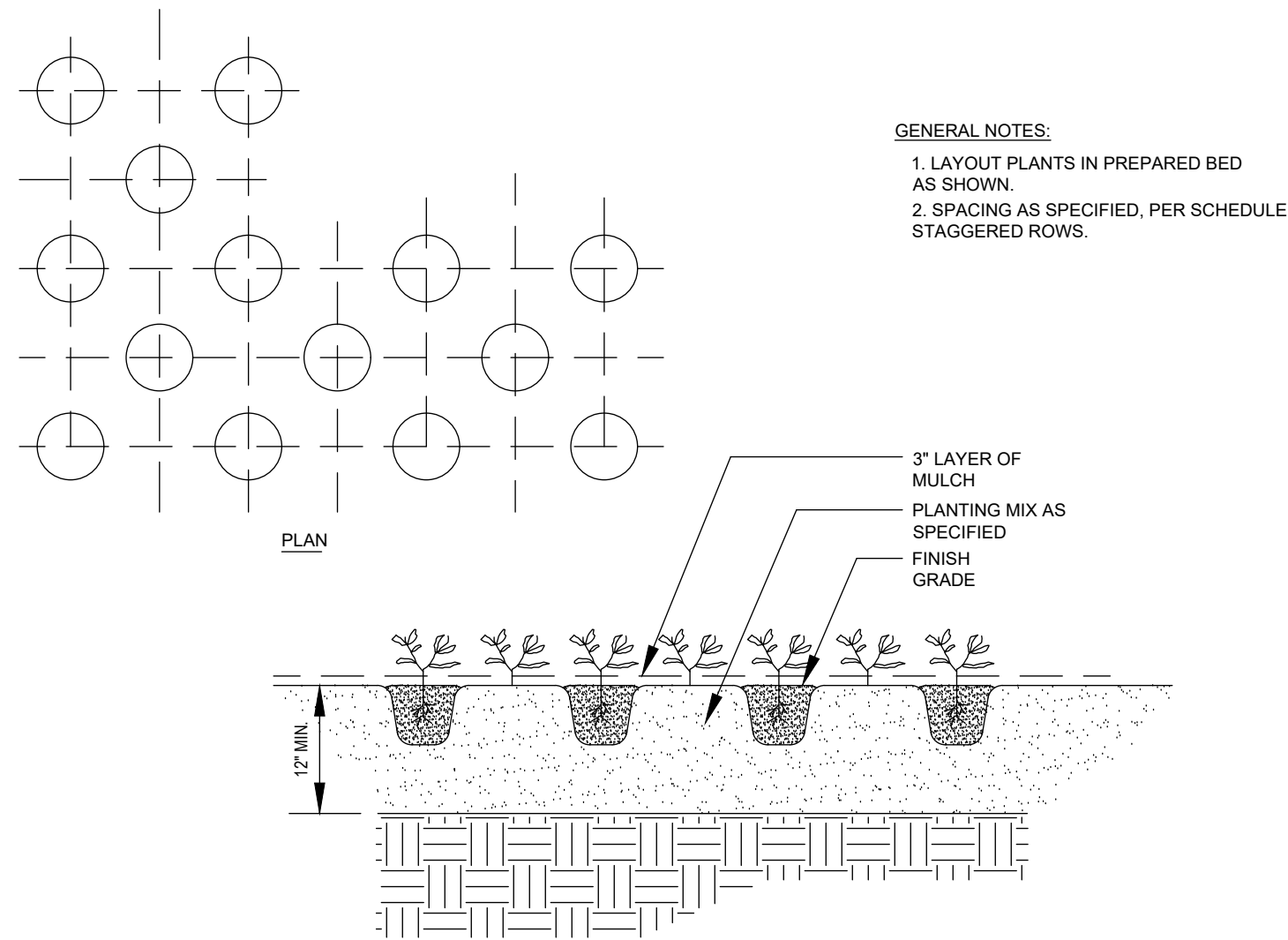


2 SHRUB PLANTING
NOT TO SCALE



- NOTES:
1. FINE GRADE LAWN AS INDICATED ON PLANS
 2. MACHINE REMOVE ROCKS AND DEBRIS FROM THE TOP 6" OF SOIL.
 3. PERFORM A SOIL TEST AND ADD LIME AND FERTILIZER PER TEST RESULTS.

3 LANDSCAPE SOD
NOT TO SCALE



4 PERENNIAL PLANTING
NOT TO SCALE

5 RESERVED
NOT TO SCALE

6 RESERVED
NOT TO SCALE

7 RESERVED
NOT TO SCALE

8 RESERVED
NOT TO SCALE

9 RESERVED
NOT TO SCALE

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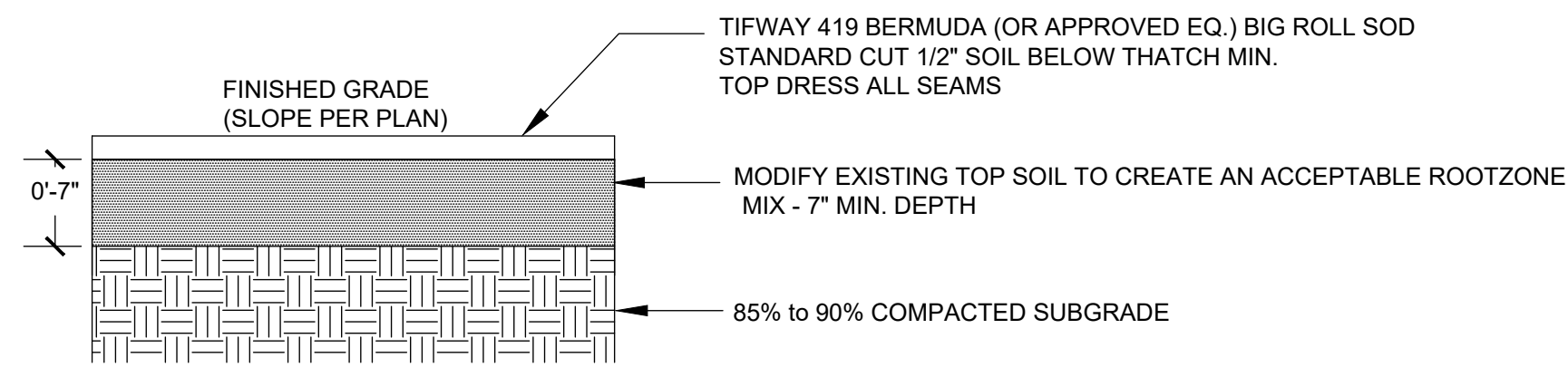
REVISIONS:

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

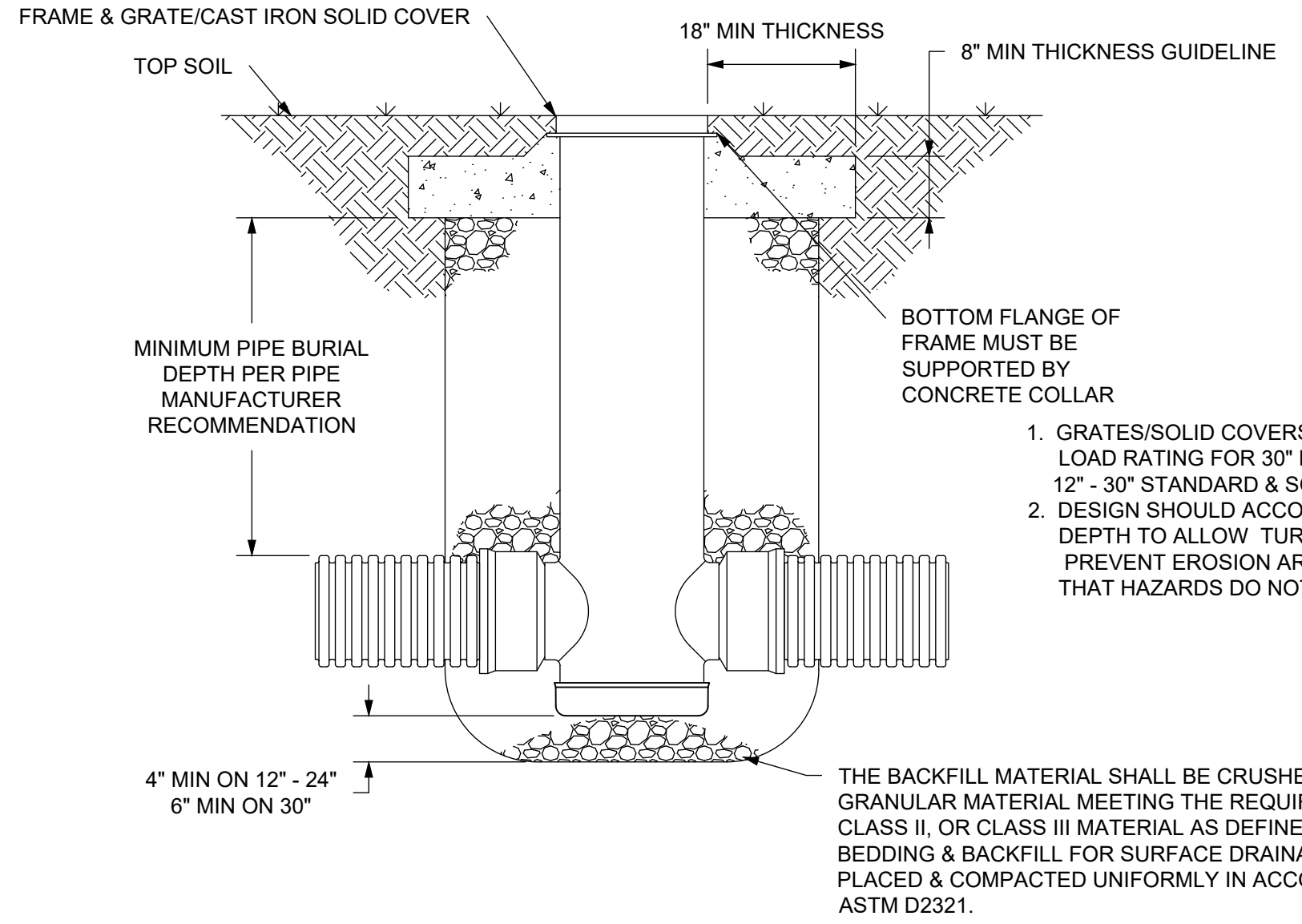
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DATE: 5-4-23
SHEET NAME: DETAILS
SHEET NO: D102

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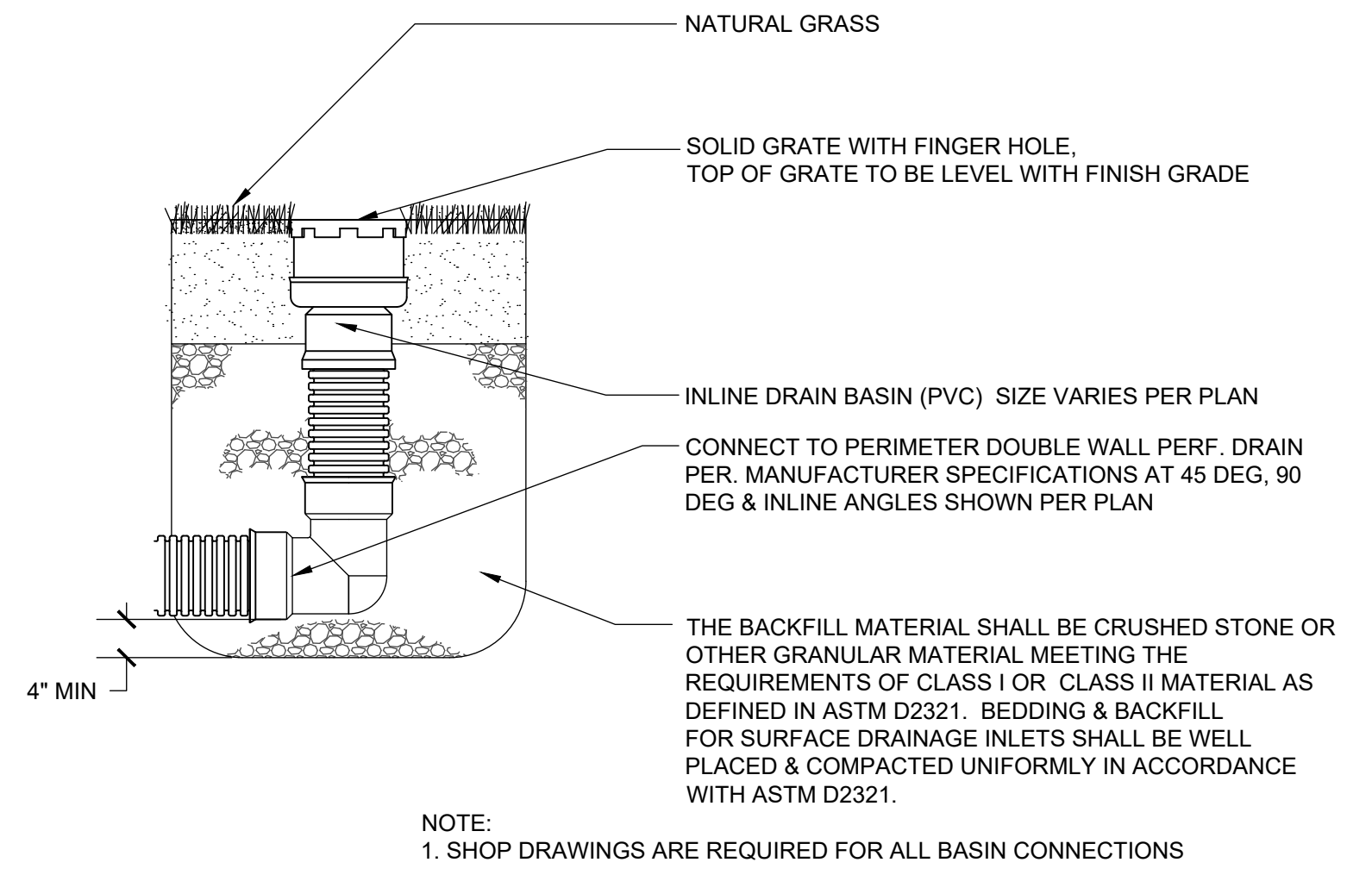
- NOTES:
1. SEE TEST REPORT PROVIDED BY TIFTON LABS REGARDING NATIVE SOIL CONVERSION PROCEDURES TO ACHIEVE ACCEPTABLE ROOTZONE.
 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE A ROOTZONE pH RANGE OF 6.0 TO 6.5
 3. SPORT FIELD CONTRACTOR TESTING AGENT MAY MAKE RATIO RECOMMENDATIONS BASED ON TEST RESULTS.
 4. SOD SHALL BE SAND BASED SIMILAR TO THE ROOTZONE MIX AND AGED 12 MONTHS OLD MIN.
 5. ALL PROPOSED FILL TOP SOIL BROUGHT ON SITE SHALL BE TESTED AND SUBMITTED FOR REVIEW BY THE OWNER/DESIGNER.

1 NATURAL GRASS FIELD PROFILE
NOT TO SCALE



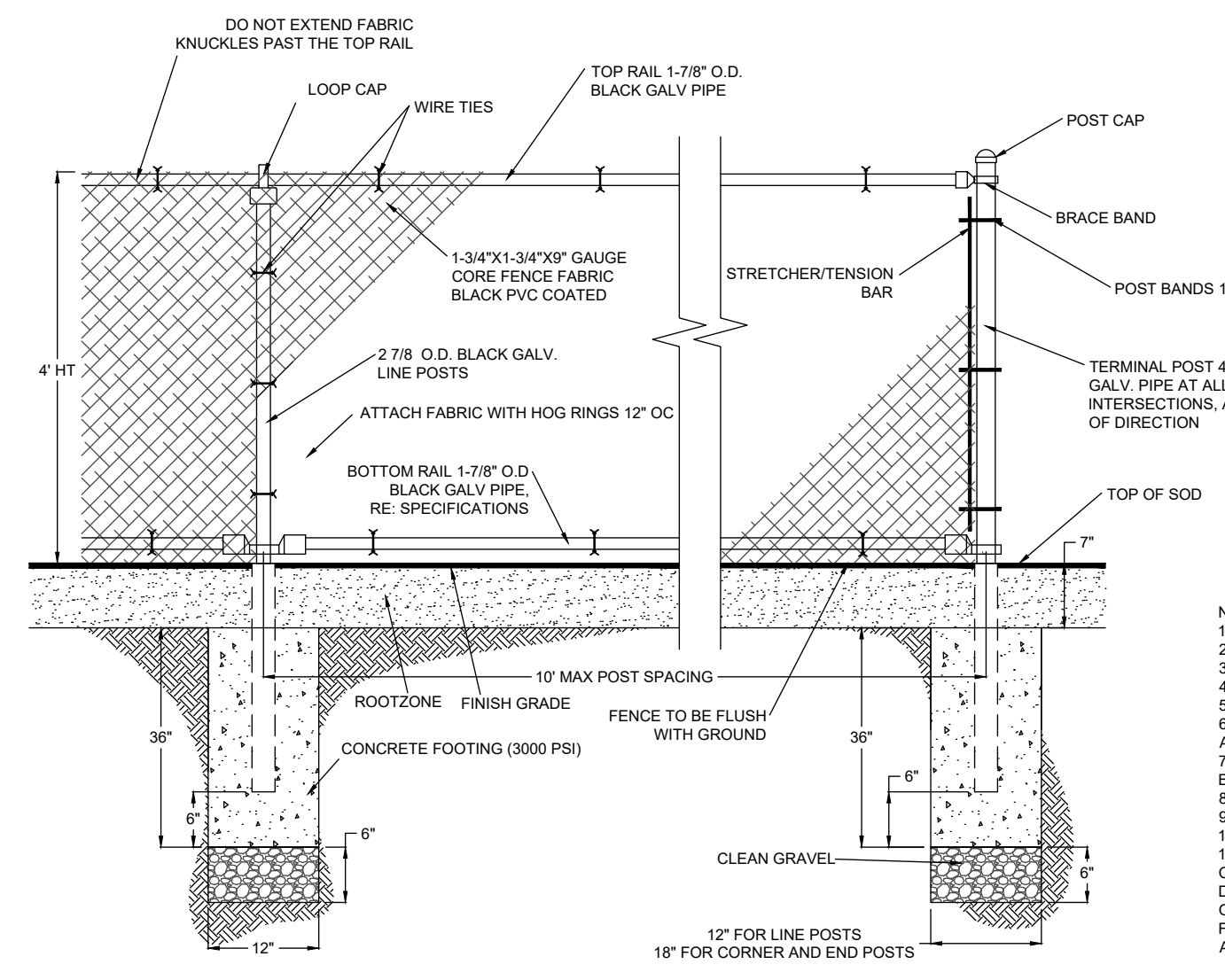
1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

2 NATURAL GRASS DRAIN BASIN
NOT TO SCALE



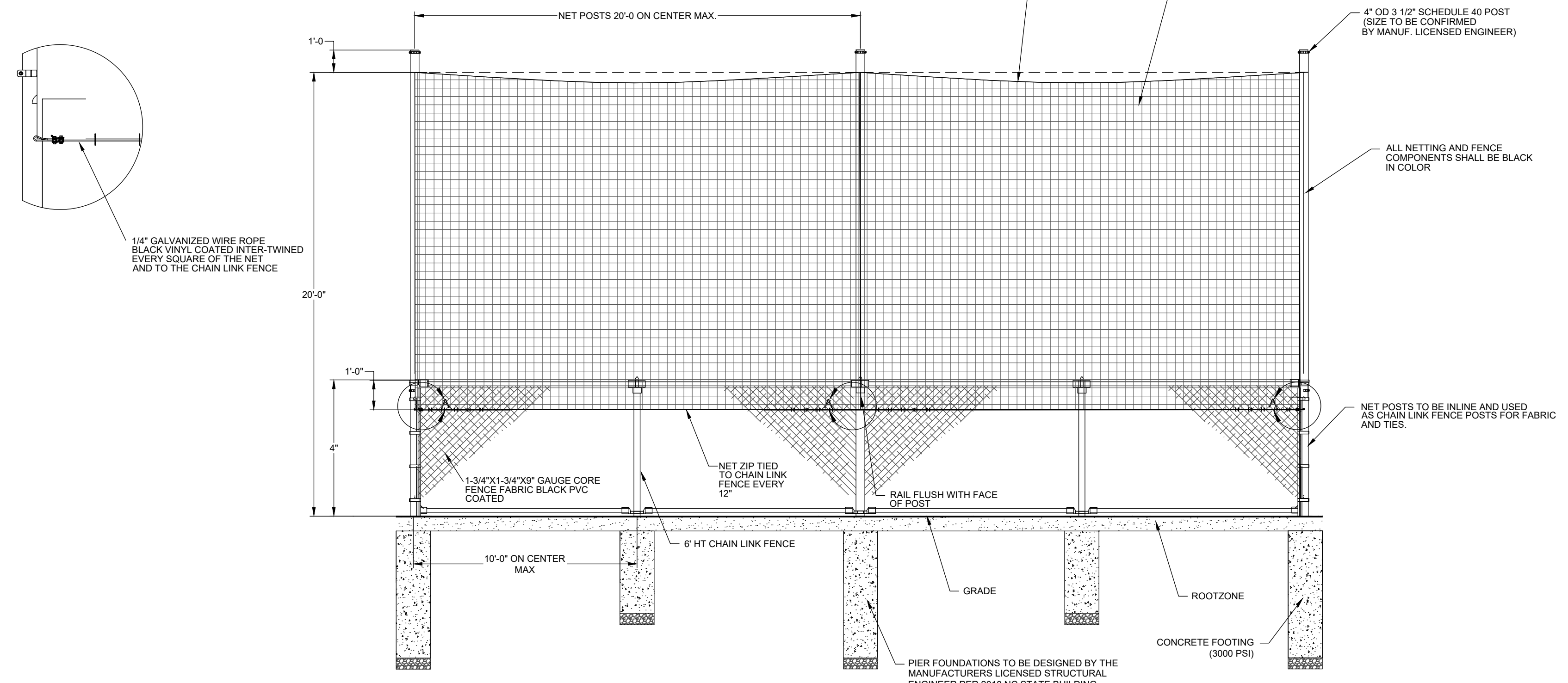
- NOTE:
1. SHOP DRAWINGS ARE REQUIRED FOR ALL BASIN CONNECTIONS

3 NATURAL GRASS INLINE DRAIN CLEANOUT
NOT TO SCALE



- NOTES:
1. SEE SPECIFICATIONS FOR POST AND RAIL SIZING.
 2. ALL POST FOOTINGS SHALL BE PER SPECIFICATIONS.
 3. SEE SPECIFICATIONS FOR FENCE FINISH REQUIREMENTS.
 4. ALL FABRIC TO BE ON INSIDE/FIELD SIDE OF RAILS AND POSTS.
 5. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
 6. CONTRACTOR TO SUBMIT FENCE POST LOCATION PLAN FOR APPROVAL.
 7. ALL FENCING, POSTS, FABRIC, AND ASSOCIATED HARDWARE TO BE BLACK PVC VINYL COATED.
 8. BLACK PVC VINYL COATED TO BE CLASS 2B FUSED AND BONDED.
 9. FENCE NOT DESIGNED FOR WIND SCREEN USE.
 10. ALL FENCE POST TO BE HIGH STRENGTH 50,000 PSI POST.
 11. ALL CONSTRUCTION IDENTIFIED IN THIS PROJECT IS A HIGH DEGREE OF RISK FOR FUTURE SETTLEMENT, AND POTENTIAL SIGNIFICANT DAMAGE TO STRUCTURES CONSTRUCTED UPON IT AS DENOTED IN THE GEOTECHNICAL REPORT. THE DESIGNER SHALL NOT BE HELD LIABLE FOR ANY CONSTRUCTION DAMAGES CAUSED BY LANDFILL MOVEMENT AND/OR SETTLEMENT.

4 CHAIN LINK FENCE (4'HT)
NOT TO SCALE



- NOTES:
1. REQUIRED ENGINEERED SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED NC STRUCTURAL ENGINEER FOR COMPLETE NETTING, POLES AND FOUNDATIONS AS PART OF THE PRICE BID.
 2. CONTRACTOR TO SUBMIT POST LOCATION PLAN FOR APPROVAL.
 3. ALL FENCING, POSTS, FABRIC AND ASSOCIATED HARDWARE TO BE BLACK PVC VINYL COATED.
 4. BLACK VINYL PVC COATED TO BE CLASS 2B FUSED AND BONDED
 5. ALL FENCE FABRIC UNDER BALL NETTING TO BE 1-3/4"X1-3/4" DIAMOND MESH
 6. FENCE NOT DESIGNED FOR WIND SCREEN USE
 7. ALL FENCE POST TO BE HIGH STRENGTH 50,000 PSI POST
 8. BASIS OF DESIGN: SPORT FIELD SPECIALTIES TPBSS412P-SG (WWW.SPORTFIELDSPPECIALTIES.COM)
 9. ALL CONSTRUCTION IDENTIFIED IN THIS PROJECT IS A HIGH DEGREE OF RISK FOR FUTURE SETTLEMENT, AND POTENTIAL SIGNIFICANT DAMAGE TO STRUCTURES CONSTRUCTED UPON IT AS DENOTED IN THE GEOTECHNICAL REPORT. THE DESIGNER SHALL NOT BE HELD LIABLE FOR ANY CONSTRUCTION DAMAGES CAUSED BY LANDFILL MOVEMENT AND/OR SETTLEMENT.

PIER FOUNDATIONS TO BE DESIGNED BY THE MANUFACTURER'S LICENSED STRUCTURAL ENGINEER PER 2016 NC STATE BUILDING CODE (2015 IBC)

FOR BASIS OF BID ASSUME NET POLE PIER FOUNDATIONS TO BE 36" DIA BY 72" DEEP REINFORCED WITH 5-#5 VERT AND #3 ROUND TIES AT 8" ON-CENTER, FULL DEPTH WITH 6" OF GRAVEL UNDER THE FOUNDATION

6 SPORT NETTING ATTACHED TO FENCE
NOT TO SCALE

5 RESERVED
NOT TO SCALE

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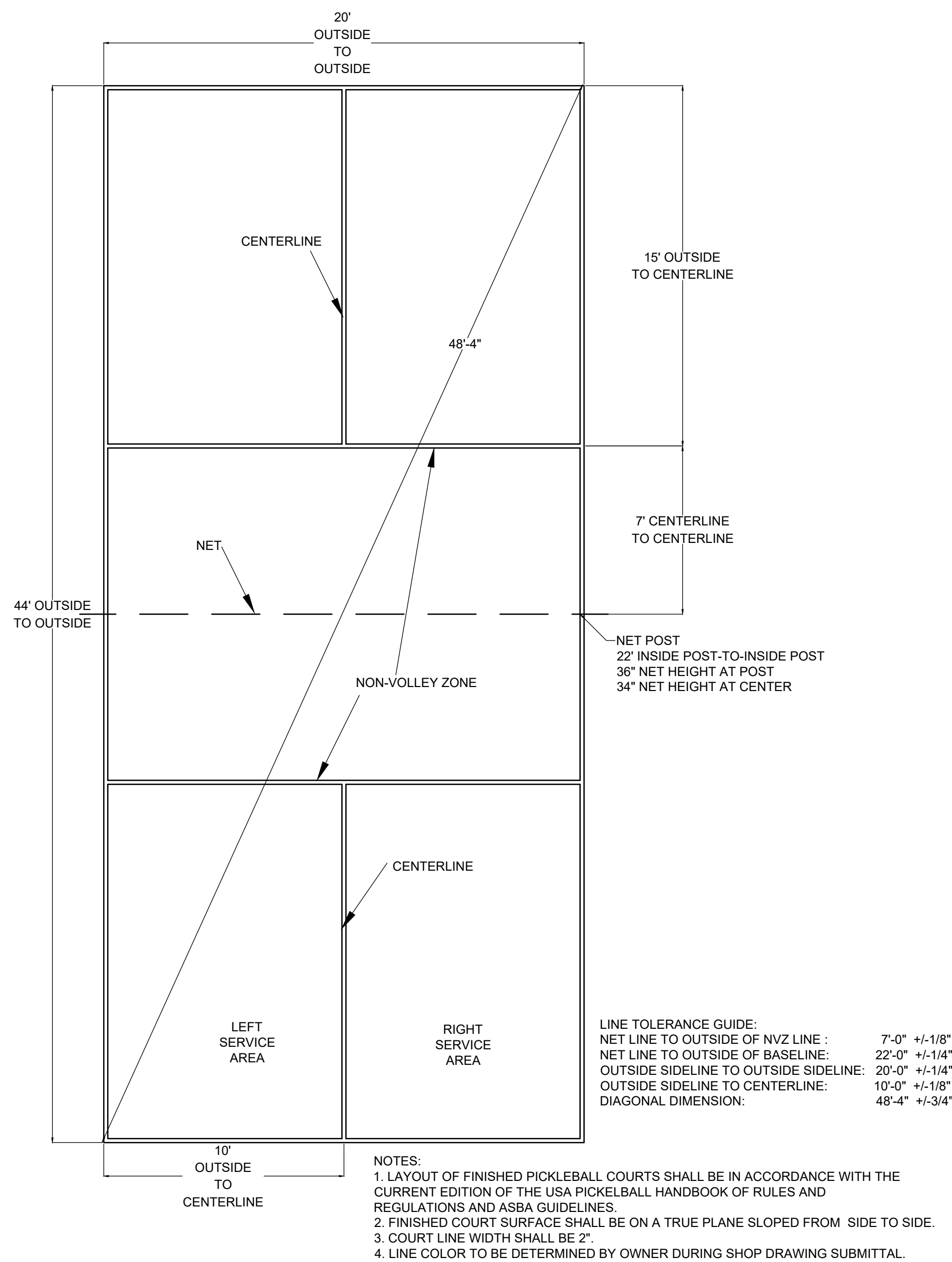


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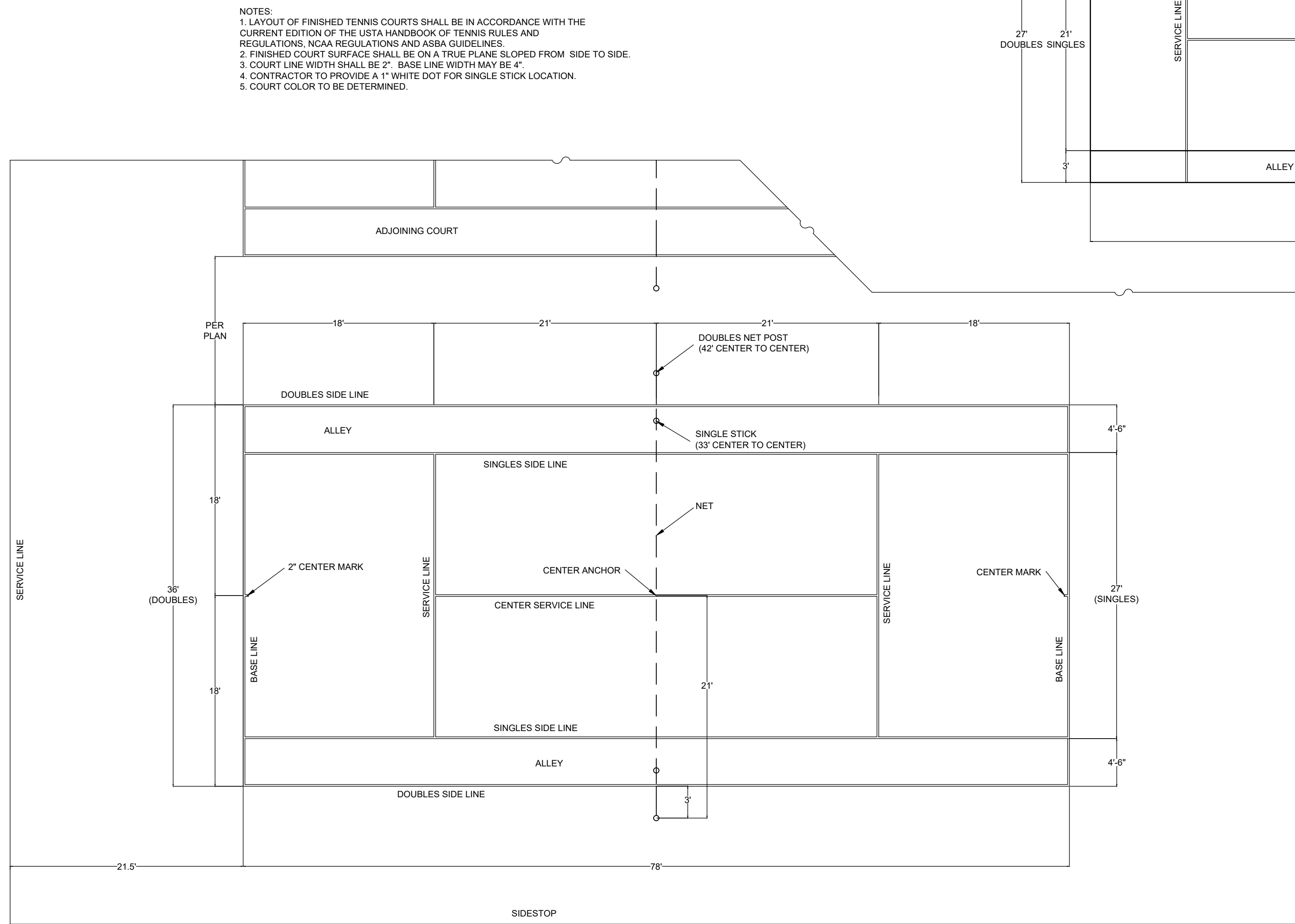
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DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
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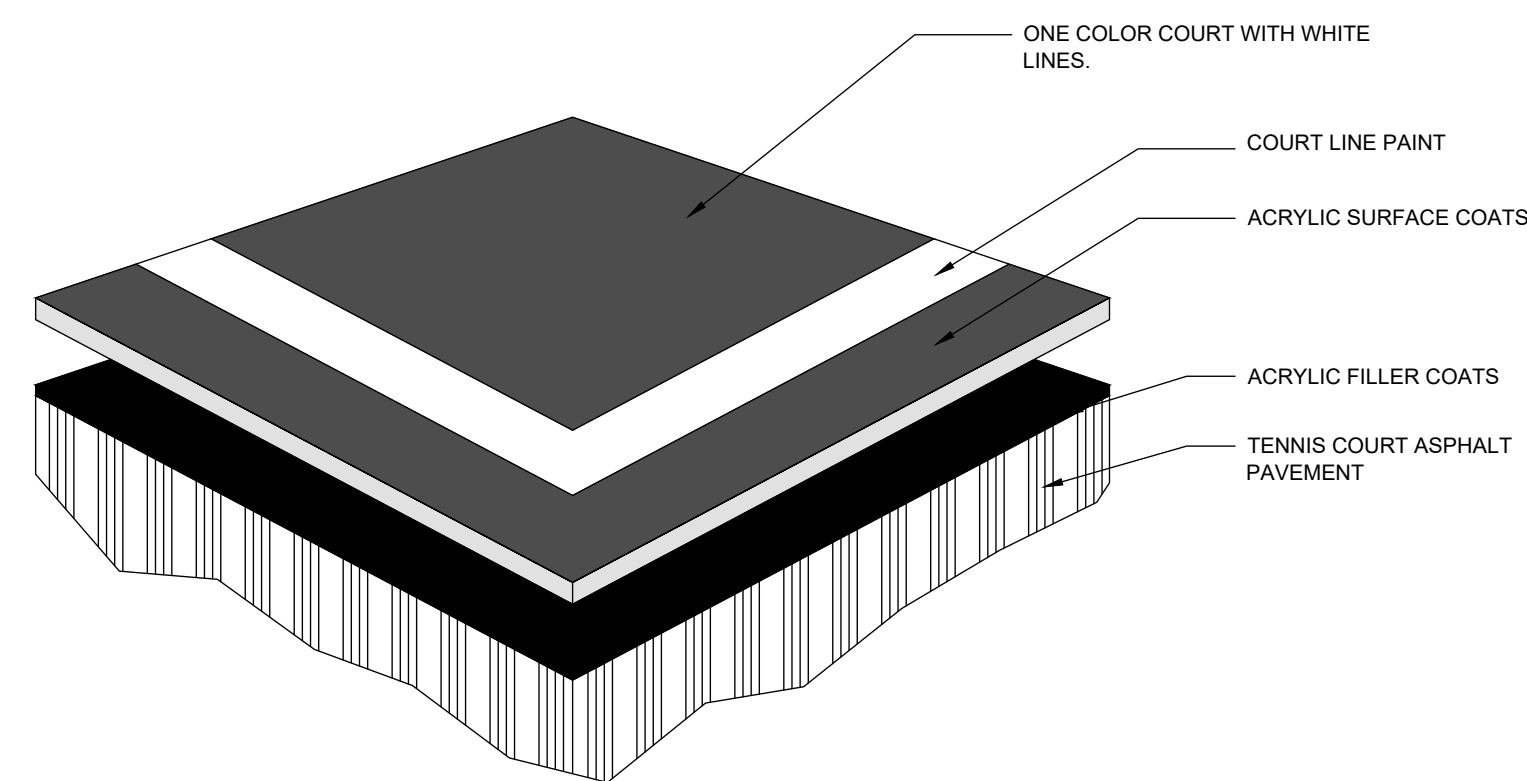
SCALE: NTS
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DETAILS
SHEET NO:
D103



1 PICKLEBALL COURT - PLAYING LINE LAYOUT (ALTERNATE)
NOT TO SCALE



2 TENNIS COURT PLAN (ALTERNATE)
NOT TO SCALE



NOTES:
1. ALL MATERIALS AND METHODS USED TO COMPLETE TENNIS COURT SURFACING SHALL COMPLY WITH THE PROJECT SPECIFICATIONS.
2. FINAL SURFACE SHALL BE FREE FROM CRACKS, BUBBLES AND OTHER DEFECTS.
3. CONTRACTOR SHALL SUBMIT SAMPLES TO ENGINEER AND OWNER FOR COLOR SELECTION PRIOR TO ORDERING SURFACING PRODUCTS. FINAL COLOR APPLICATION SHALL BE SELECTED BY OWNER.

3 TENNIS COURT SURFACING (ALTERNATE)
NOT TO SCALE

4 RESERVED
NOT TO SCALE

5 RESERVED
NOT TO SCALE

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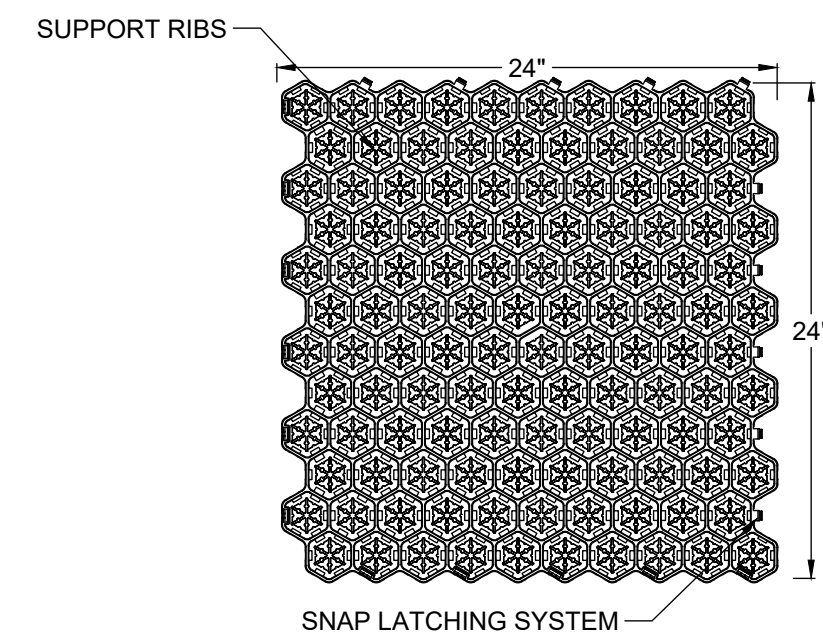


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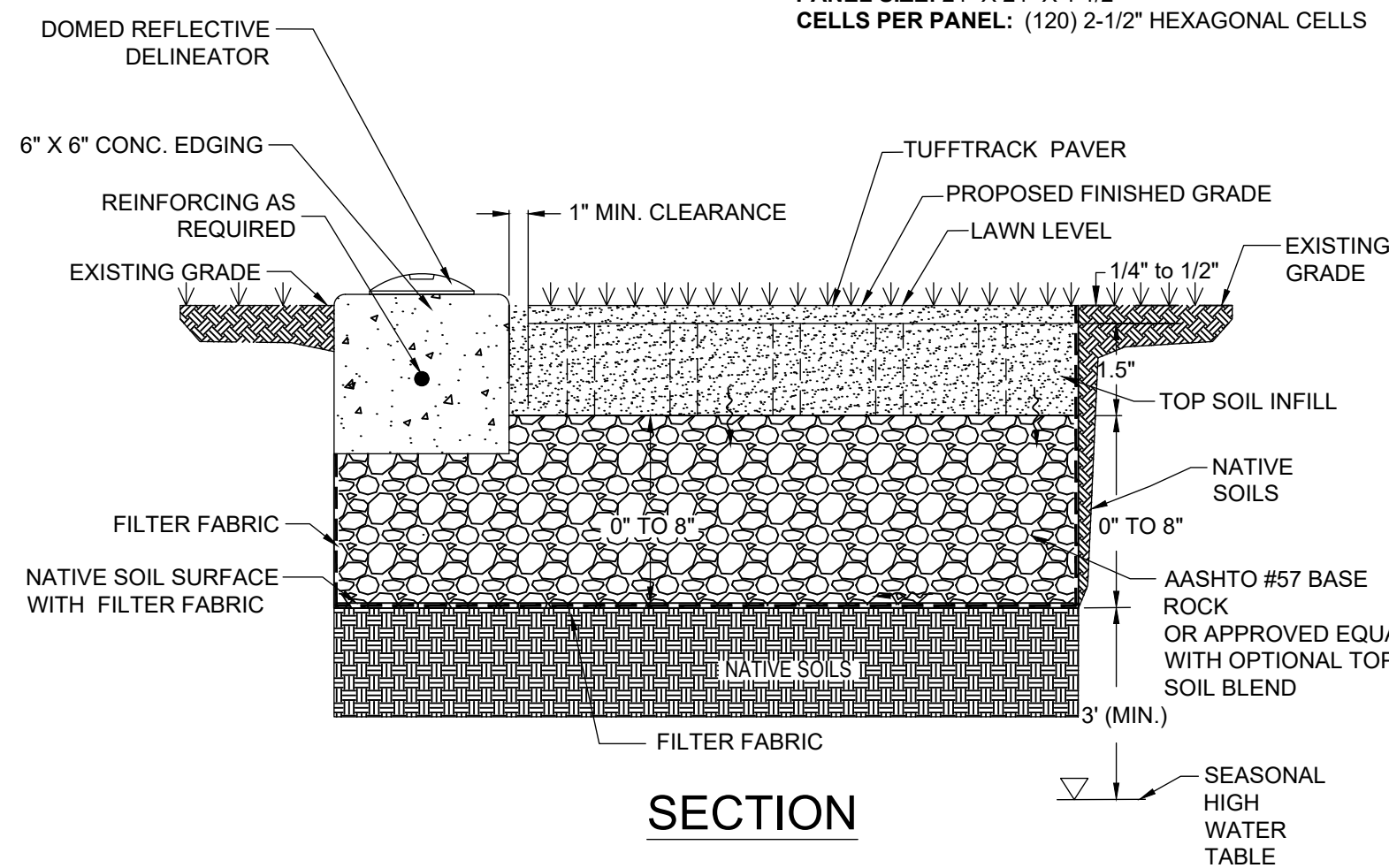
DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME: DETAILS
SHEET NO: D104



PLAN VIEW

PRODUCT DESCRIPTION
 PANEL SIZE: 24" X 24" X 1 1/2"
 CELLS PER PANEL: (120) 2-1/2" HEXAGONAL CELLS



SECTION

BASIS OF DESIGN: NDS TT24 TUFF TRACK ENGINEERED PERMEABLE PAVER GRASS SURFACE

ENGINEERING PROPERTIES:

1. COMPRESSIVE STRENGTH OF TT24 PAVER:
 EMPTY PAVER: ULTIMATE LOAD = 86,563 LBS / 601 PSI
 FILLED PAVER: ULTIMATE LOAD = 400,000 LBS
2. POROSITY OF AASHTO #57 AGGREGATE = 0.4

TOP SOIL FILL:

1. NDS RECOMMENDS NATIVE TOP SOIL FOR BACKFILL INSIDE THE PAVERS.
2. EXTEND TOP SOIL INSIDE PAVER AN ADDITIONAL 1/4 TO 1/2 INCH ABOVE PAVER SURFACE AND MATCH SURROUNDING GRADE. PROPOSED FINISHED GRADE SLOPE PER PROJECT GRADING PLAN. PROTECT PAVER AREA UNTIL GRASS IS SUFFICIENTLY ESTABLISHED TO HANDLE TRAFFIC. PROVIDE 1" (MIN.) CLEARANCE BETWEEN ANY CONCRETE EDGE AND PAVER.
3. GRASS PAVERS ARE TO BE USED FOR AREAS OF PEDESTRIAN USE AND OCCASIONAL VEHICULAR TRAFFIC USE (E.G., OVERFLOW PARKING AND EMERGENCY VEHICLE/FIRE LANES).

AASHTO #57 BASE ROCK:

1. GRADATION OF AASHTO #57 COARSE BASE ROCK: 100% PASSING 1 1/2" SCREEN, 95-100% PASSING 1", 25-60% PASSING 3/4", AND 0-10% PASSING #8 SCREEN. OPTIONAL: ADD PULVERIZED NATIVE TOP SOIL EQUAL TO 15% OF TOTAL VOLUME. BLEND TO OBTAIN HOMOGENEOUS MIXTURE PRIOR TO PLACEMENT.
2. THICKNESS OF AGGREGATE LAYER IS AS FOLLOWS: NO BASE REQUIRED FOR EROSION CONTROL AND PEDESTRIAN-ONLY LOADS (COMPACTION OF NATIVE SOIL RECOMMENDED FOR SLOPES UP TO 3%); 4 INCHES FOR LIGHT LOADS (GOLF CARTS); 6 INCHES FOR MEDIUM LOADS (CARS AND PICKUP TRUCKS); 8 INCHES FOR HEAVY LOADS (FIRE TRUCKS).
3. COMPACT WITH ONE TO THREE PASSES OF 5-TON STEEL WHEEL ROLLER. SINCE IT IS DIFFICULT TO MEASURE DENSITY OF COARSE AGGREGATE, APPROACH OF REQUIRING A FIXED DENSITY IS NOT APPLICABLE.

FILTER FABRIC:

1. FILTER FABRIC MAY BE USED TO PREVENT MIGRATION OF FINES FROM SURROUNDING NATIVE SOILS INTO COARSE AGGREGATE LAYER. THE FABRIC PREVENTS CLOGGING OF AGGREGATE LAYER AND EXTENDS ITS USEFUL LIFE. USE OF FILTER FABRIC IS STRONGLY RECOMMENDED AROUND EDGE DRAIN.
2. NDS RECOMMENDS NON-WOVEN NEEDLE-PUNCHED GEOTEXTILE. WOVEN GEOTEXTILES SHOULD NOT BE USED.
3. USE FILTER FABRIC WITH AOS <0.60 MM FOR NATIVE SOILS WITH 50% OR LESS PARTICLES BY WEIGHT PASSING NO.200 SIEVE. USE FILTER FABRIC WITH AOS <0.30MM FOR NATIVE SOILS WITH 50% OR GREATER PARTICLES BY WEIGHT PASSING THE NO.200 SIEVE.

SUBGRADE NATIVE SOIL:

1. COMPACT SUBGRADE NATIVE SOILS 90 TO 95% STANDARD PROCTOR DENSITY PER ASTM D696 FOR SOILS WITH CALIFORNIA BEARING RATIO >20%, R VALUE >30, AASHTO A-1, A-2, AND A-3 SOILS. LOWER COMPACTION LEVELS PROMOTE INFILTRATION THROUGH SOIL.
2. NDS RECOMMENDS THAT ENGINEER-OF-RECORD CONSIDER HIGHER LEVEL OF COMPACTION FOR CBR 5 TO 20%, R-VALUE 10 TO 30, AASHTO A-4 SOILS FOR HEAVY LOADS WHERE INFILTRATION INTO NATIVE SOILS IS NOT A REQUIREMENT.
3. NDS RECOMMENDS THAT ENGINEER-OF-RECORD CONSULT WITH PROJECT GEOTECHNICAL ENGINEER FOR POTENTIAL SOIL MODIFICATION (E.G., LIME TREATMENT) AND COMPACTION LEVEL FOR CBR <5% AND R-VALUE <10, AASHTO A-5, A-6, AND A-7 SOILS.

1 PERMEABLE PAVER GRASS SURFACE

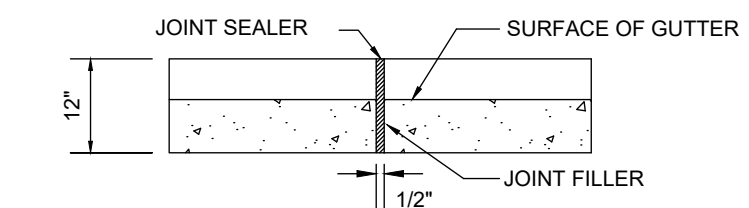
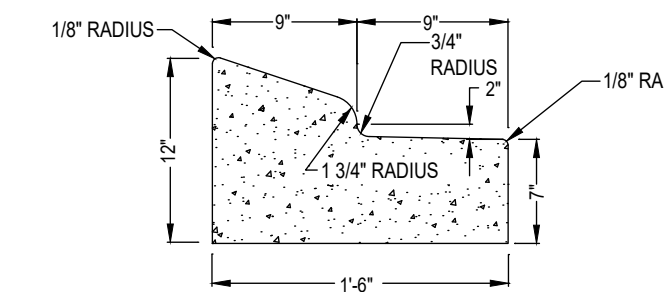
NOT TO SCALE

2 MOUNTABLE CURB AND GUTTER

NOT TO SCALE

GENERAL NOTES:

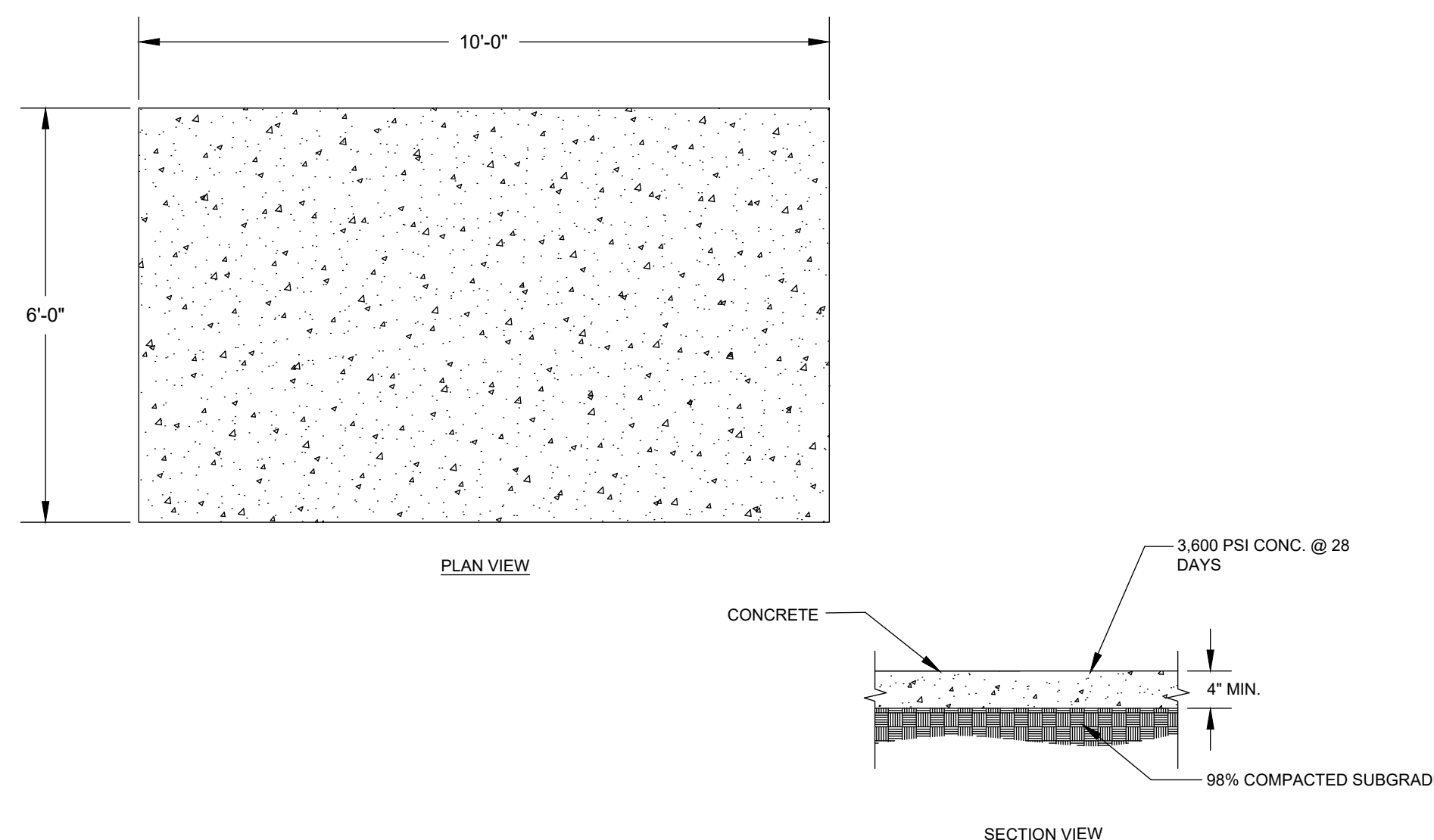
1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1.5' SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT SEALER. EXPANSION JOINTS SHALL BE SPACED AT 40' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
4. JOINTS SHALL MATCH LOCATIONS WITH JOINT IN ABUTTING SIDEWALK. CONCRETE SHALL BE 3600 PSI IN 28 DAYS.
5. CURB SHALL BE DEPRESSED AT INTERSECTION TO PROVIDE FOR FUTURE WHEELCHAIR RAMP.
6. TOP 6" SUBGRADE BENEATH CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.



TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

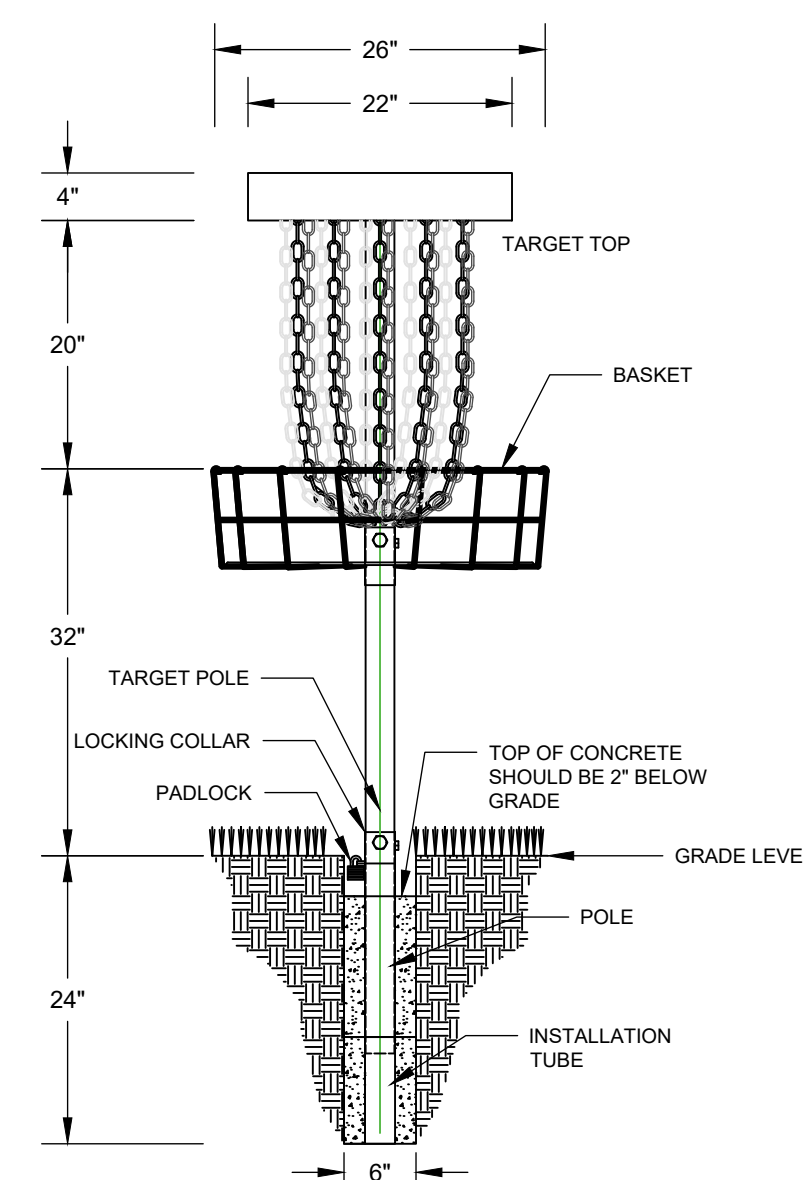
3 RESERVED

NOT TO SCALE



4 DISC GOLF TEE PAD

NOT TO SCALE



5 DISC GOLF BASKET

NOT TO SCALE

6 RESERVED

NOT TO SCALE

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REVISIONS:
6-14-2023: ADDENDUM 1

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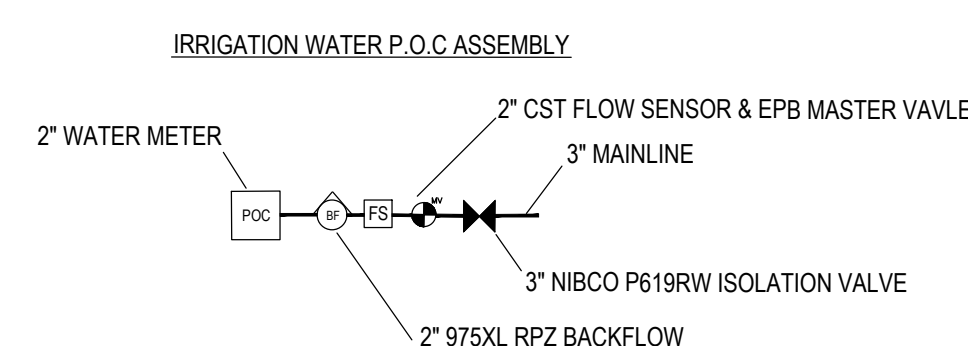
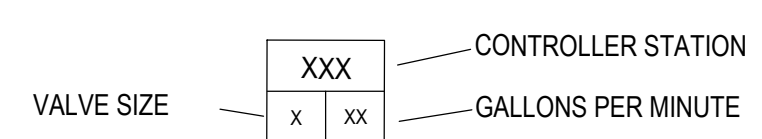
DORTON PARK RENOVATION
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

SCALE: NTS
 DATE: 5-4-23
 SHEET NAME:
 DETAILS
 SHEET NO:
 D105

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURE MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
	RAIN BIRD 8005-SS-20 5" POP-UP, FULL/PART CIRCLE 60 PSI, # 20 NOZZLE	60	20.1	64'	5
	RAIN BIRD 8005-SS-10 5" POP-UP, FULL/PART CIRCLE 60 PSI, # 10 NOZZLE	60	10.1	53'	5

SYMBOL	MANUFACTURE MODEL/DESCRIPTION	DETAIL
	MAINLINE - P619 CAST IRON GATE VALVE VALVE TO MATCH SIZE OF MAINLINE	8
	1" RAIN BIRD 4LRC QUICK COUPLING VALVE LOCKING COVER	7
	RAIN BIRD PEB - 24V VAC SOLENOID ELECTRIC CONTROL VALVE - SIZE PER DESIGN	6
	RAIN BIRD EPB-CP MASTER VALVE - 24V VAC SOLENOID 2" ELECTRIC CONTROL MASTER VALVE	14
	2" CREATIVE SENSOR TECHNOLOGY FLOW SENSOR FSI-T20-001 PVC FLOW SENSOR - 240 PSI MAX WORKING PRESSURE	13
	ZURN - 975XL RPZ BACKFLOW 2" REDUCE PRESSURE PRINCIPLE ASSEMBLY	10
	POINT OF CONNECTION - DOMESTIC WATER METER TO PROVIDE A MINIMUM OF 75 GPM @ 93 PSI AVAILABLE DYNAMIC PRESSURE	10
	RAIN BIRD ESP-LXM-SM12 / IQ-FSCM-LXME TRADITIONAL IRRIGATION CONTROLLER WALL MOUNT	1
	RAIN BIRD WR2-RFC WIRELESS RAIN SENSOR	3
	IRRIGATION MAINLINE: 3" PVC CLASS 200 SDR 21 SOLVENT WELD MAINLINE	12
	IRRIGATION LATERAL: PVC CLASS 200 SDR 21 SOLVENT WELD IRRIGATION PIPE - 2 1/2" AND SMALLER UNMARKED LATERAL LINE TO BE 1" IN SIZE	12
	6" SL 2" WS 6" SCH 40 SLEEVE PIPE SIZED AS MARKED ON PLAN 2" SCH 40 IRRIGATION CONTORL WIRE SLEEVE	11



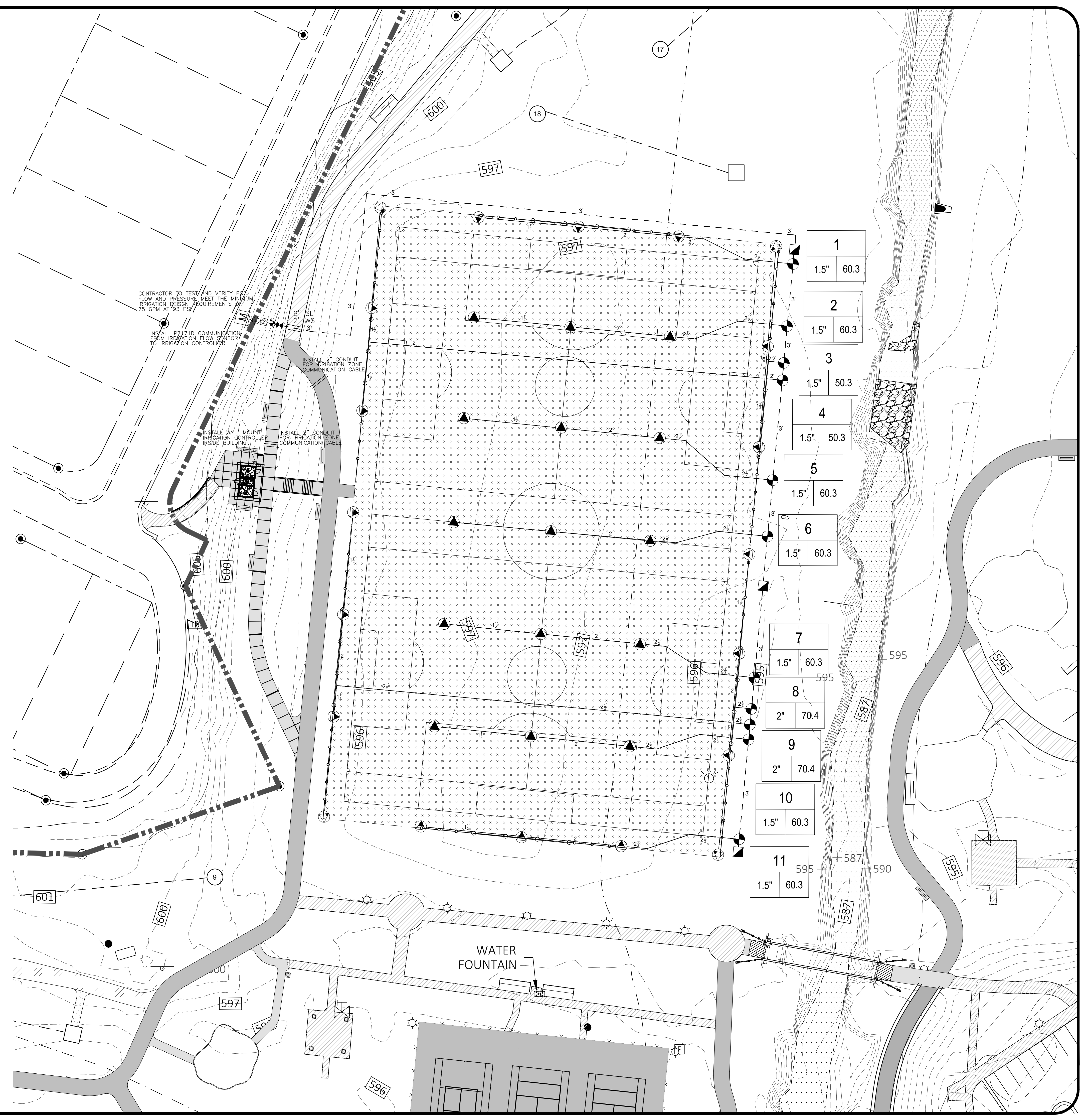
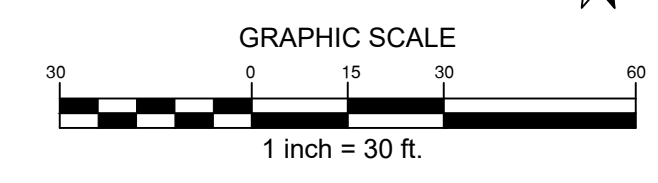
ZONE #	TYPE	SIZE	GPM	PSI AT VALVE	BASE PSI	RESIDUAL PSI
1	PEB	1.5"	60.3	68.9	60	8.9
2	PEB	1.5"	60.3	68.5	60	8.5
3	PEB	2"	50.3	68.4	60	8.4
4	PEB	1.5"	50.3	68.3	60	8.3
5	PEB	1.5"	60.3	67.6	60	7.6
6	PEB	1.5"	60.3	67.4	60	7.4
7	PEB	1.5"	60.3	66.7	60	6.7
8	PEB	2"	70.4	69.5	60	9.5
9	PEB	2"	70.4	69.4	60	9.4
10	PEB	1.5"	60.3	66.2	60	6.2
11	PEB	1.5"	60.3	65.7	60	5.7

*INSTALL PRS-DIAL AT ALL ELECTRIC VALVE

- IRRIGATION NOTES
- IRRIGATION PLAN IS DIAGRAMMATIC, ALL IRRIGATION EQUIPMENT SHALL BE LOCATED IN THE FIELD BY THE IRRIGATION CONTRACTOR
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR STAKING SPRINKLER HEADS, VALVE BOXES, AND ALL IRRIGATION COMPONENTS AS PER THE IRRIGATION PLAN. THERE SHALL BE NO DEVIATION FROM THE PLAN WITHOUT WRITTEN APPROVAL FROM IRRIGATION DESIGNER.
 - INSTALL IRRIGATION CONTROLLER AND RAIN SENSOR AS PER THE IRRIGATION PLAN.
 - IRRIGATION CONTRACTOR TO PROGRAM THE IRRIGATION CONTROLLER WITH AN IRRIGATION SCHEDULE BASED ON 1.50" OF WATER APPLIED PER WEEK TO TURF.
 - CONTRACTOR TO VERIFY POINT OF CONNECTION CAN PRODUCE MINIMUM 75 GPM @ 93 PSI



CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



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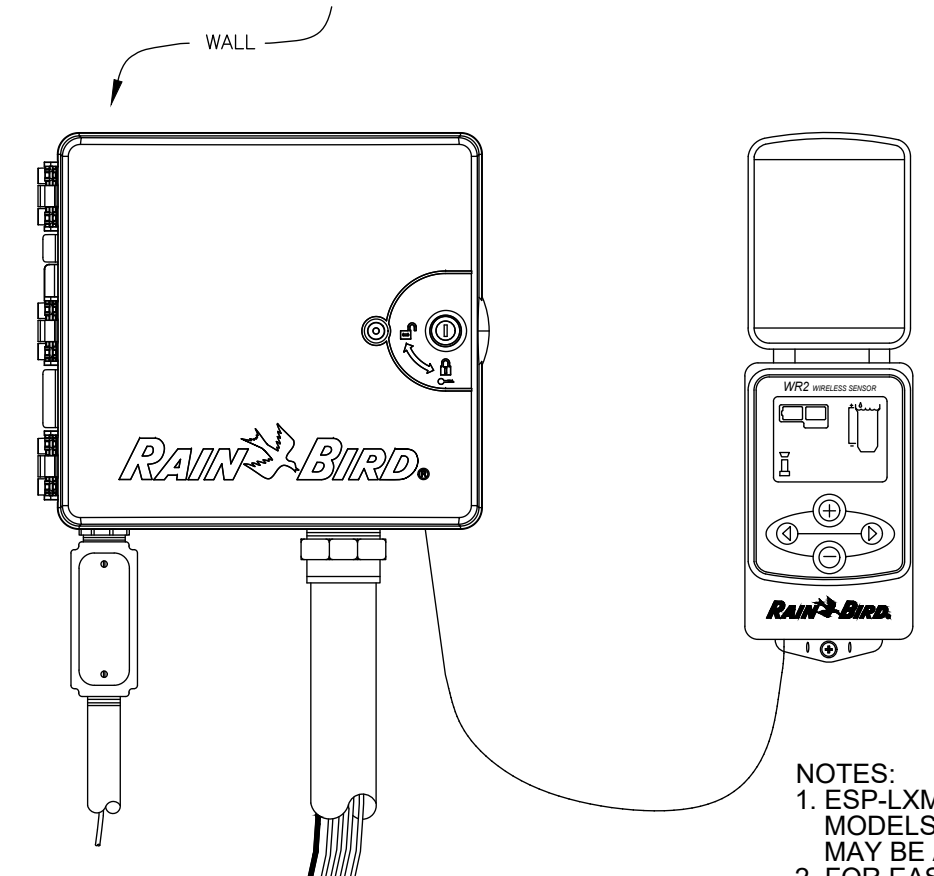


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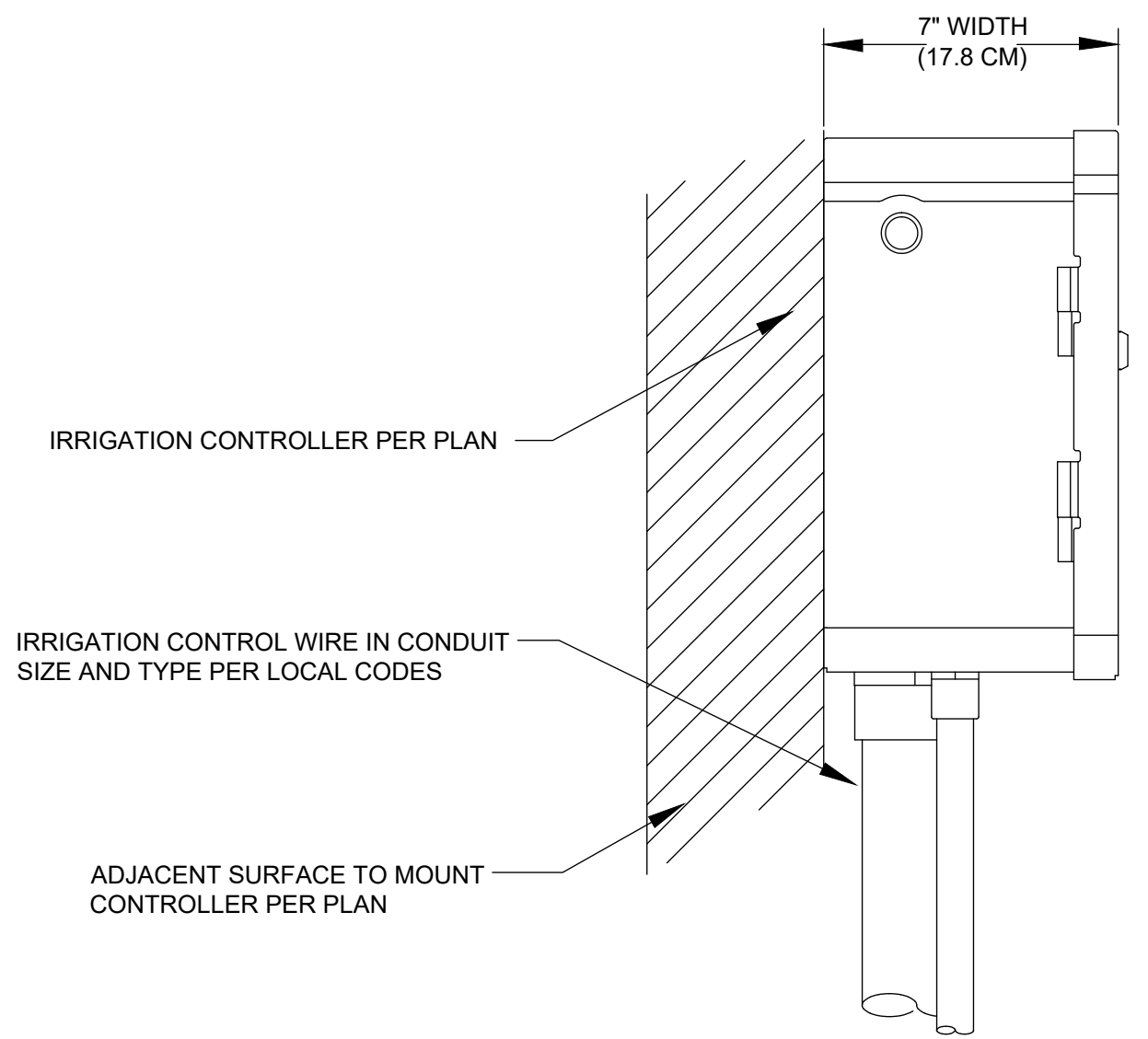
DORTON PARK RENOVATIONS
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 5-4-23
SHEET NAME:
SPORT FIELD IRRIGATION PLAN
SHEET NO:
1100



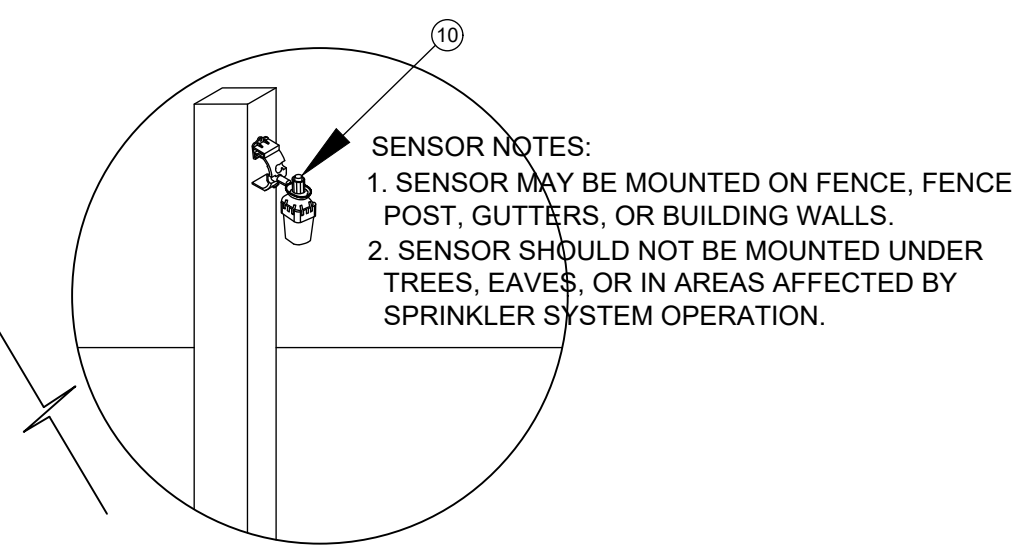
NOTES:
 1. ESP-LXMEF CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
 2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
 3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 4. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

1 IRRIGATION CONTROLLER
 NOT TO SCALE

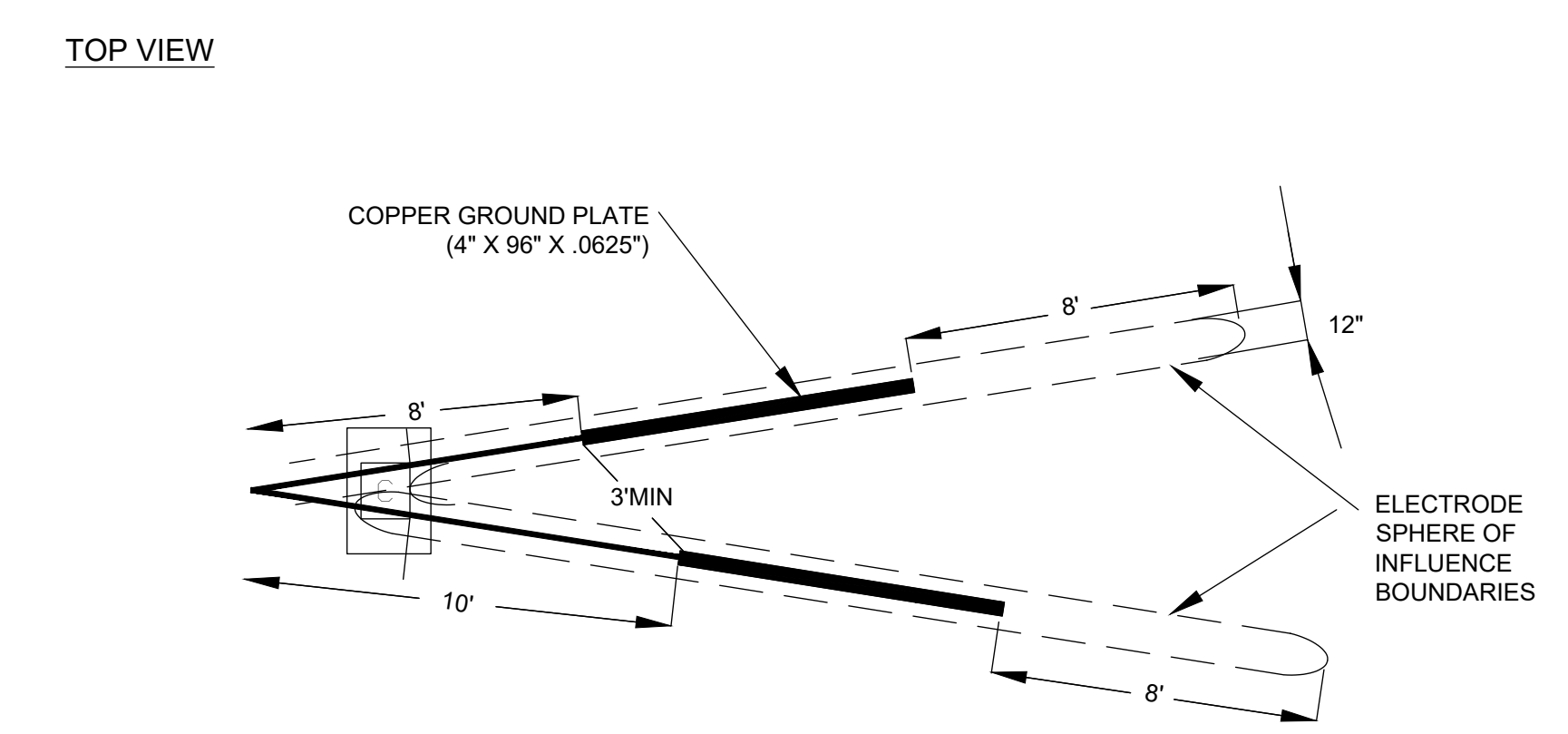


2 IRRIGATION CONTROLLER
 NOT TO SCALE

- 1 IRRIGATION CONTROLLER:
RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- 4 POWER SUPPLY WIRE
- 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- 6 MASTER VALVE AND REMOTE CONTROL VALVE WIRES
- 7 FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR
- 8 CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAXIMUM)
- 9 RAIN BIRD WR2 WIRELESS SENSOR CONTROLLER INTERFACE
- 10 RAIN BIRD WR2 SENSOR

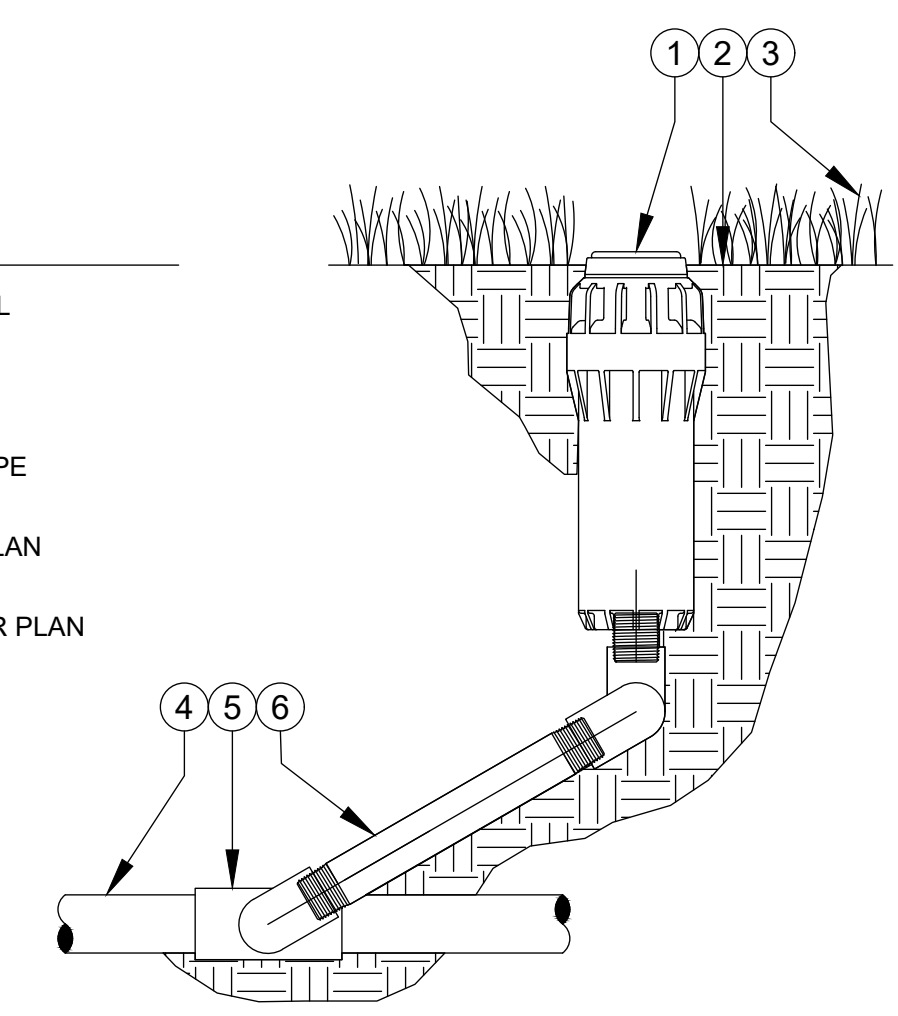


3 WIRELESS RAIN SENSOR
 NOT TO SCALE



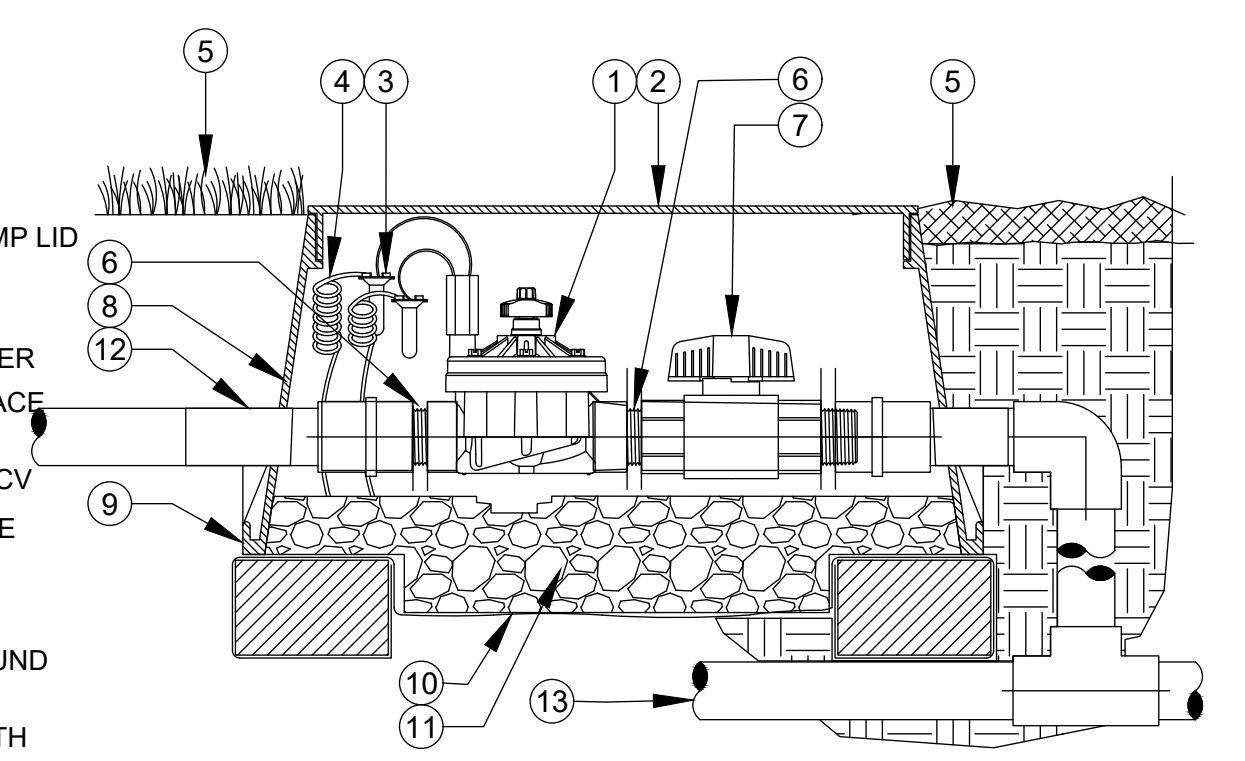
4 CONTROLLER GROUNDING
 NOT TO SCALE

- LEGEND
- 1 LARGE ROTOR DETAIL
 - 2 FINISHED GRADE
 - 3 ADJACENT LANDSCAPE
 - 4 LATERAL PIPE PER PLAN
 - 5 LATERAL FITTING PER PLAN
 - 6 LASCO SWING JOINT

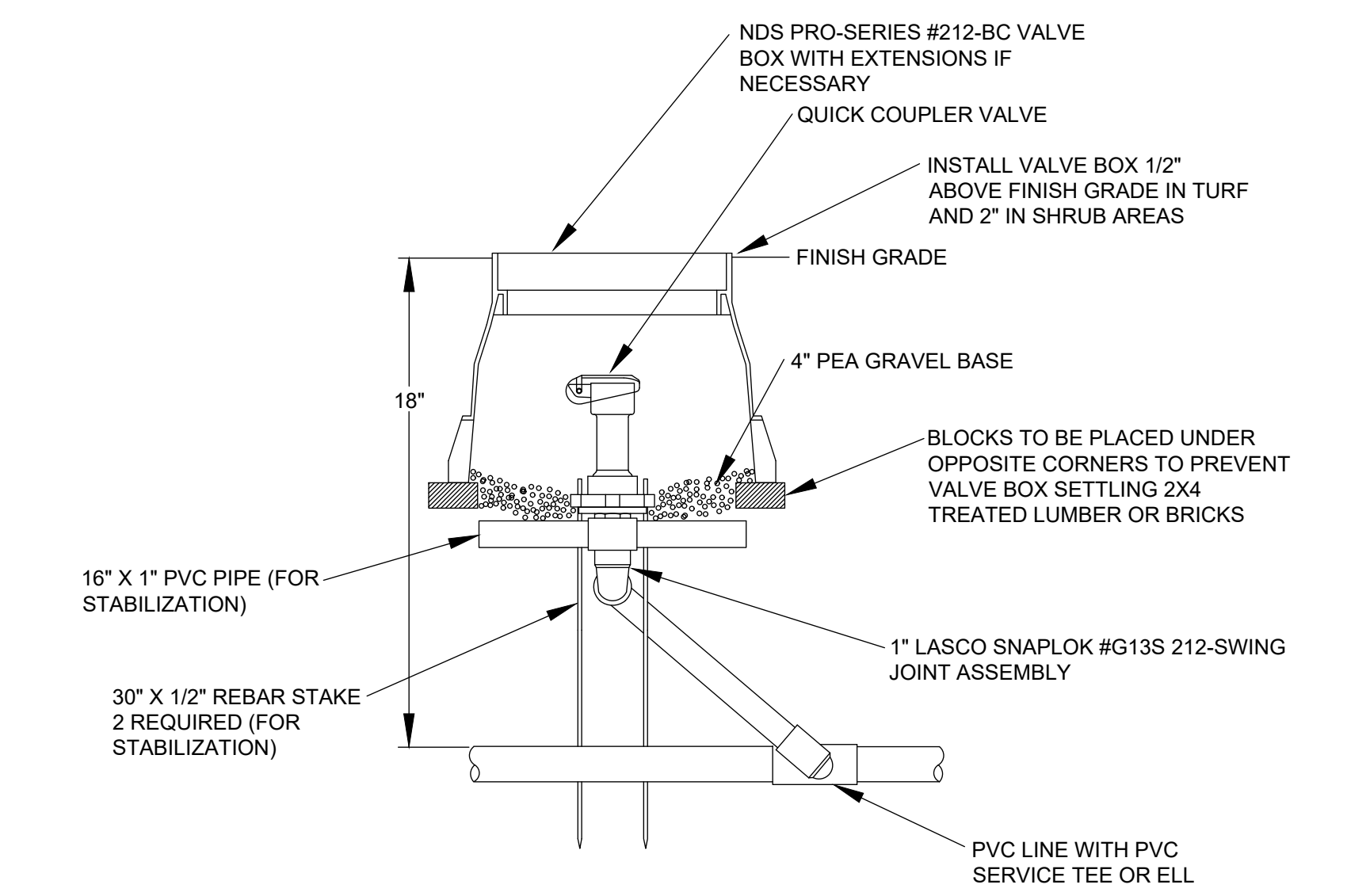


5 LARGE ROTOR STAINLESS STEEL DETAIL
 NOT TO SCALE

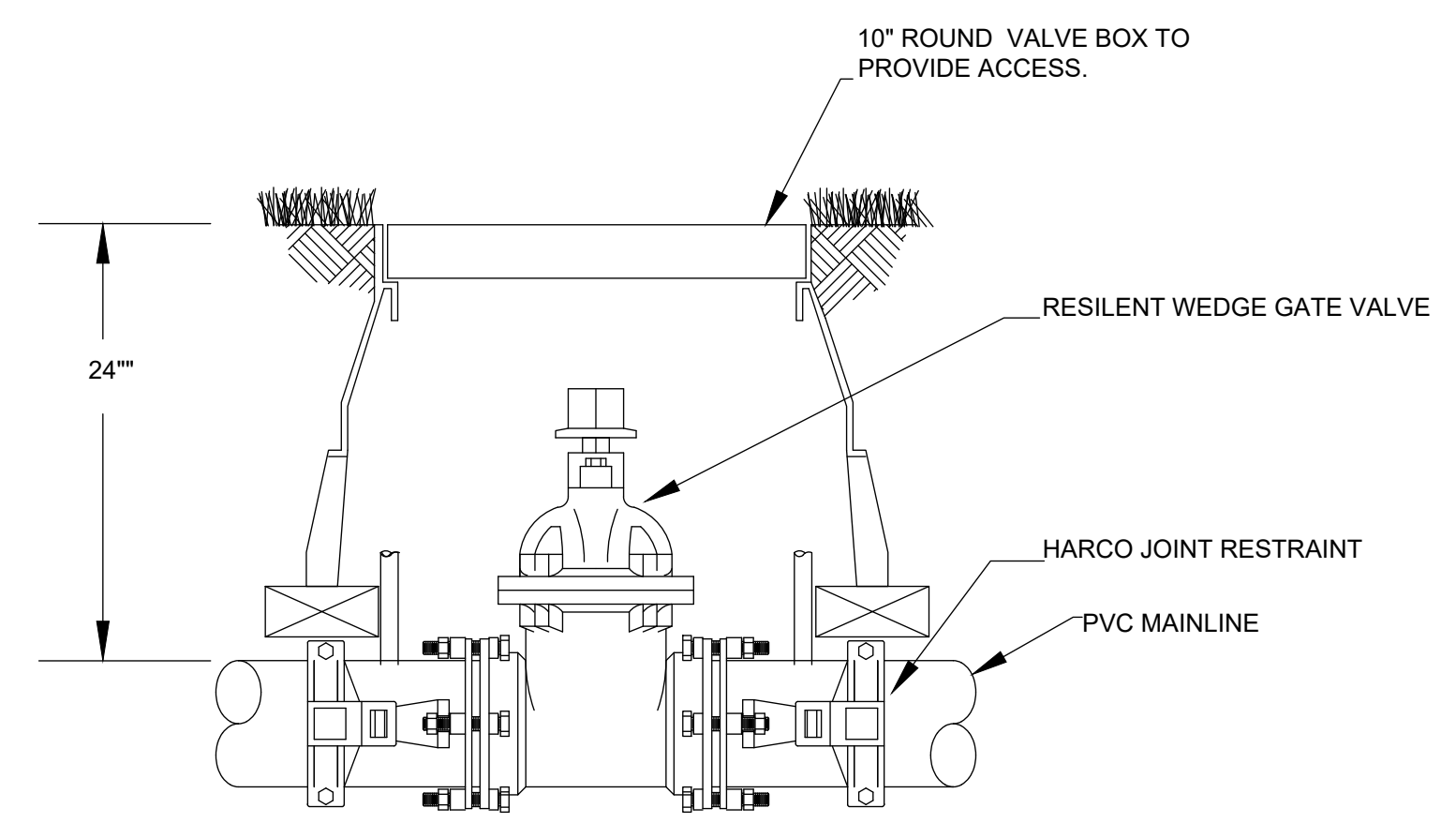
- LEGEND
- 1 IRRIGATION ELECTRIC VALVE WITH FLOW CONTROL
 - 2 IRRIGATION VALVE BOX: HEAT STAMP LID WITH 'RCV' IN 2" LETTERS
 - 3 WATERPROOF CONNECTORS (2)
 - 4 18"-24" COILED WIRE TO CONTROLLER
 - 5 FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)
 - 6 SCH. 80 CLOSE NIPPLE, SIZE PER RCV
 - 7 NIBCO T-FP-600A BRASS BALL VALVE
 - 8 PVC SLIP X FPT ADAPTOR
 - 9 BRICK SUPPORTS (4)
 - 10 FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS
 - 11 3/4" WASHED GRAVEL - 4" MIN. DEPTH
 - 12 IRRIGATION LATERAL
 - 13 MAINLINE AND FITTINGS



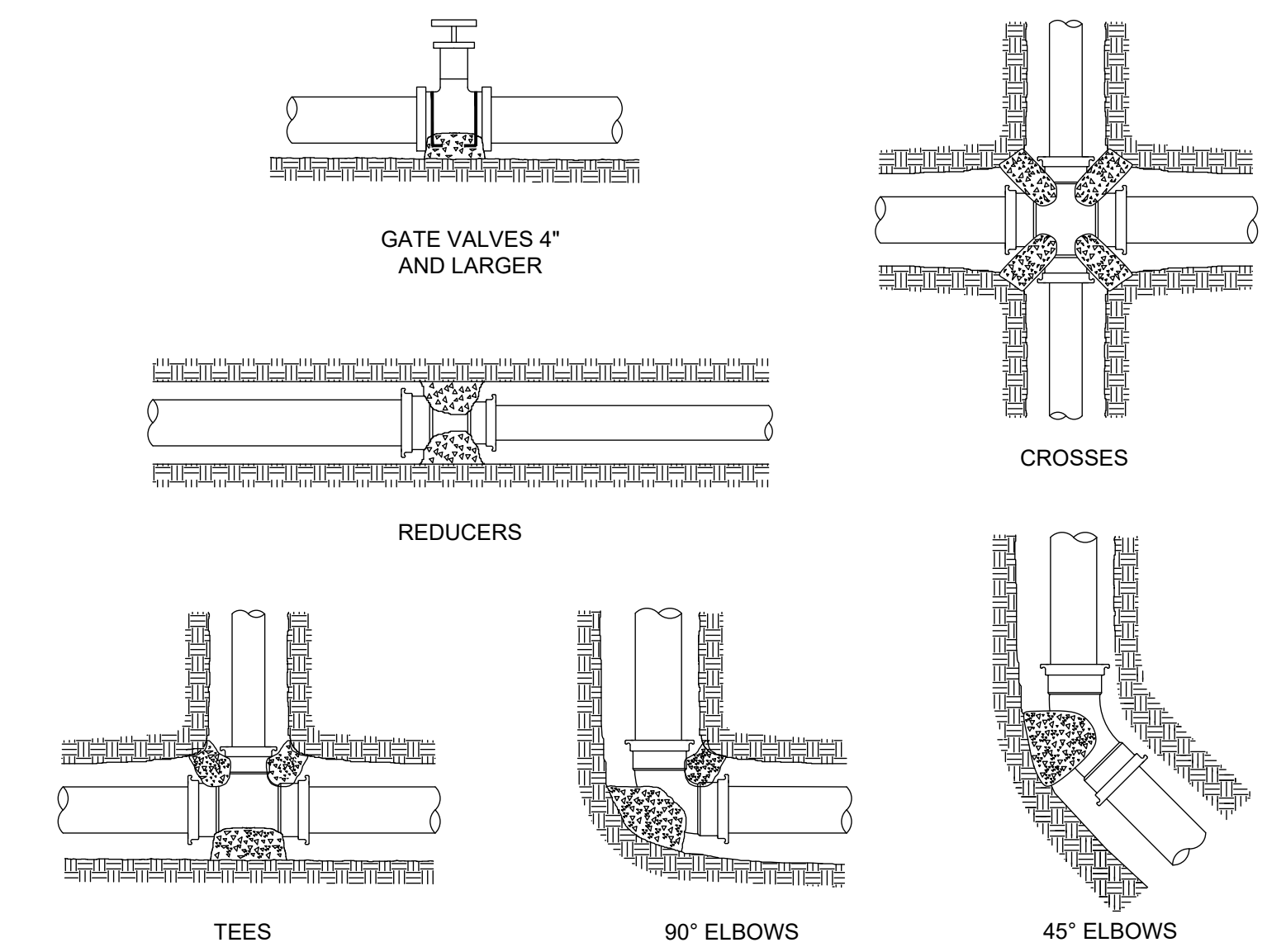
6 ELECTRIC VALVE ASSEMBLY
 NOT TO SCALE



7 QUICK COUPLER VALVE ASSEMBLY
 NOT TO SCALE



8 MAINLINE ISOLATION VALVE
 NOT TO SCALE



9 THRUST BLOCK DETAIL
 NOT TO SCALE

PERMIT SET

THE DODD STUDIO
 314 Tom Hall St.
 Fort Mill, SC 29715
 (716) 803.981.4330
 www.thedoddstudio.com

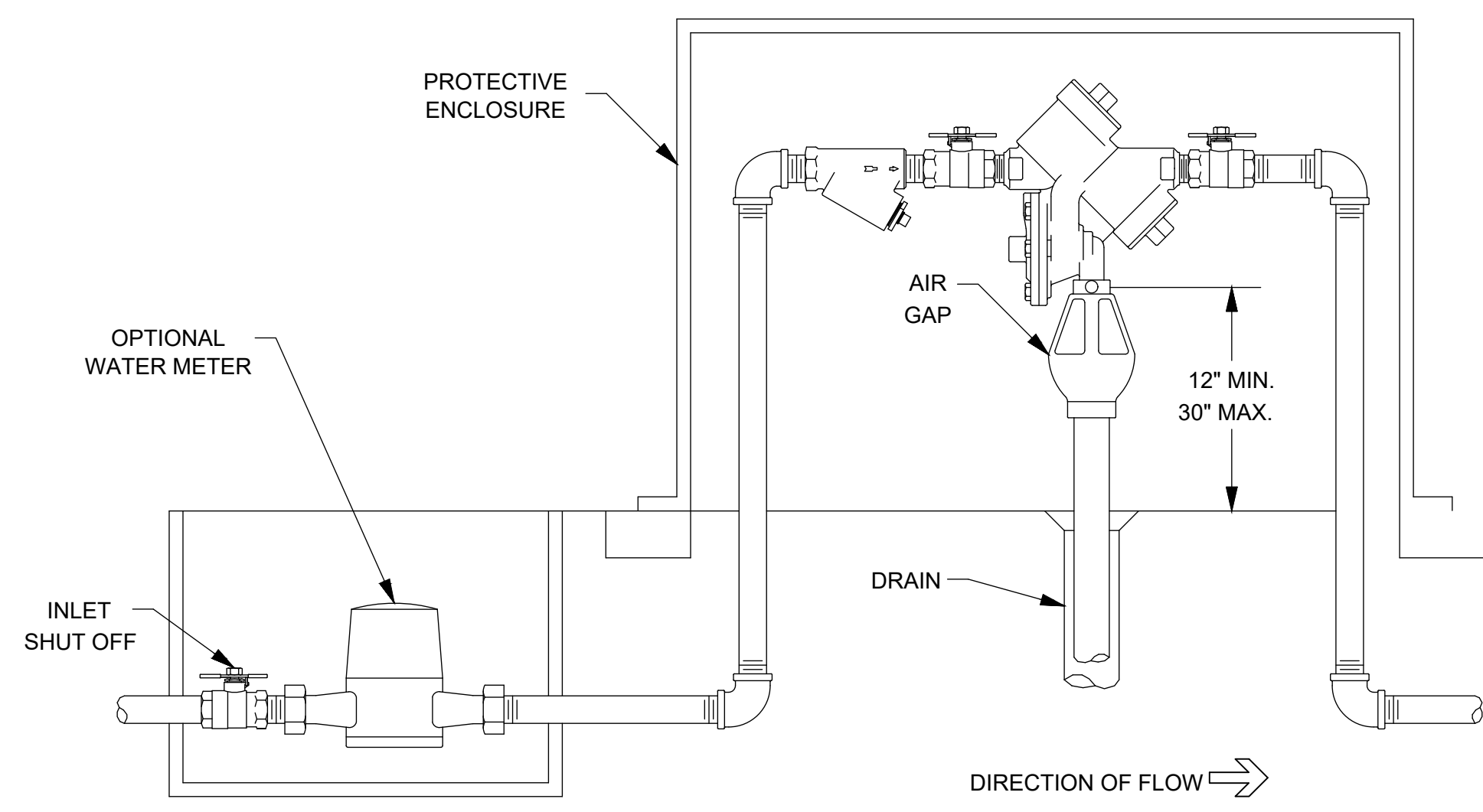


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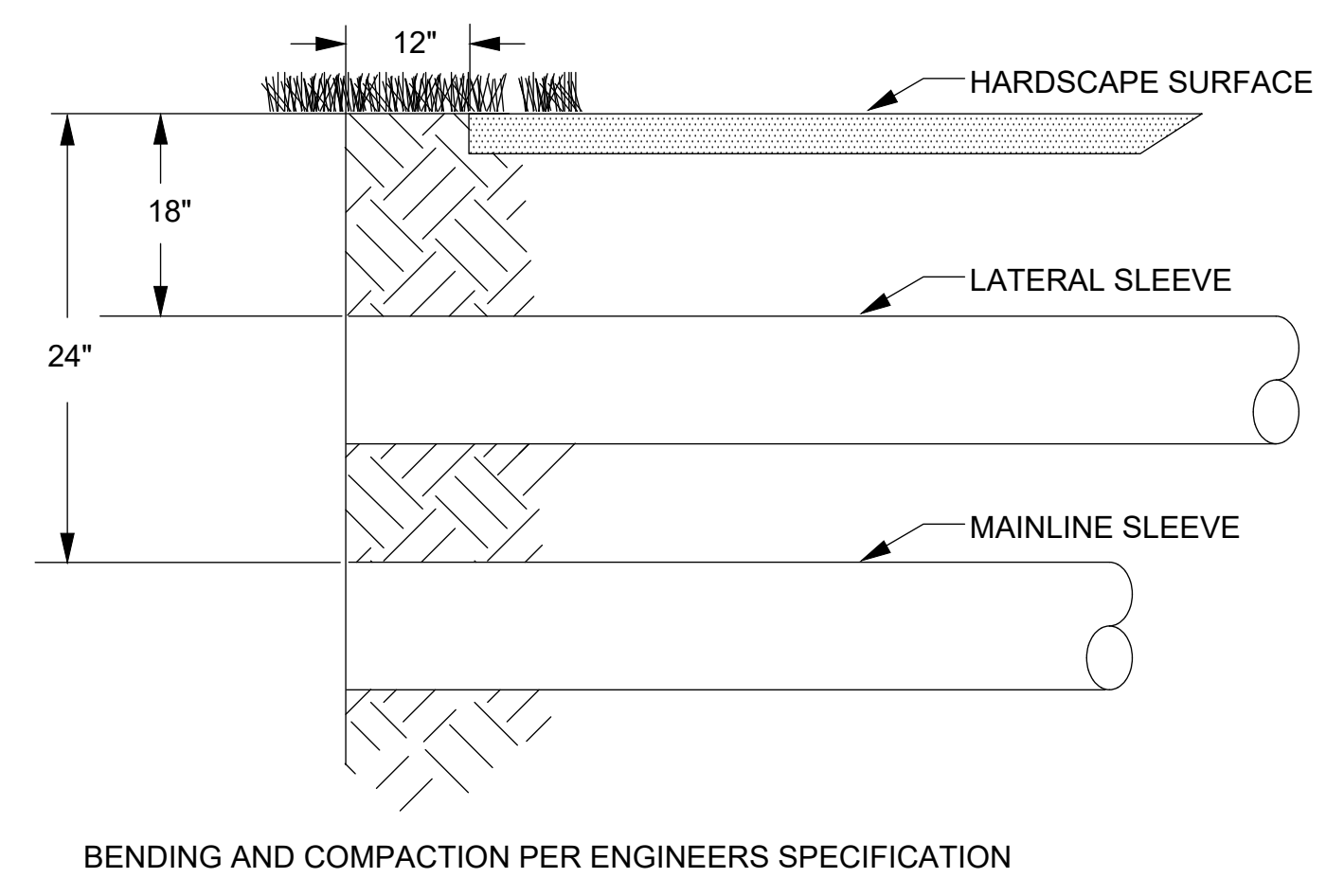
CITY OF CONCORD
 35 CABARRUS AVE. W
 CONCORD, NORTH CAROLINA

DORTON PARK RENOVATION
 5650 POPLAR TENT ROAD
 CONCORD, NORTH CAROLINA

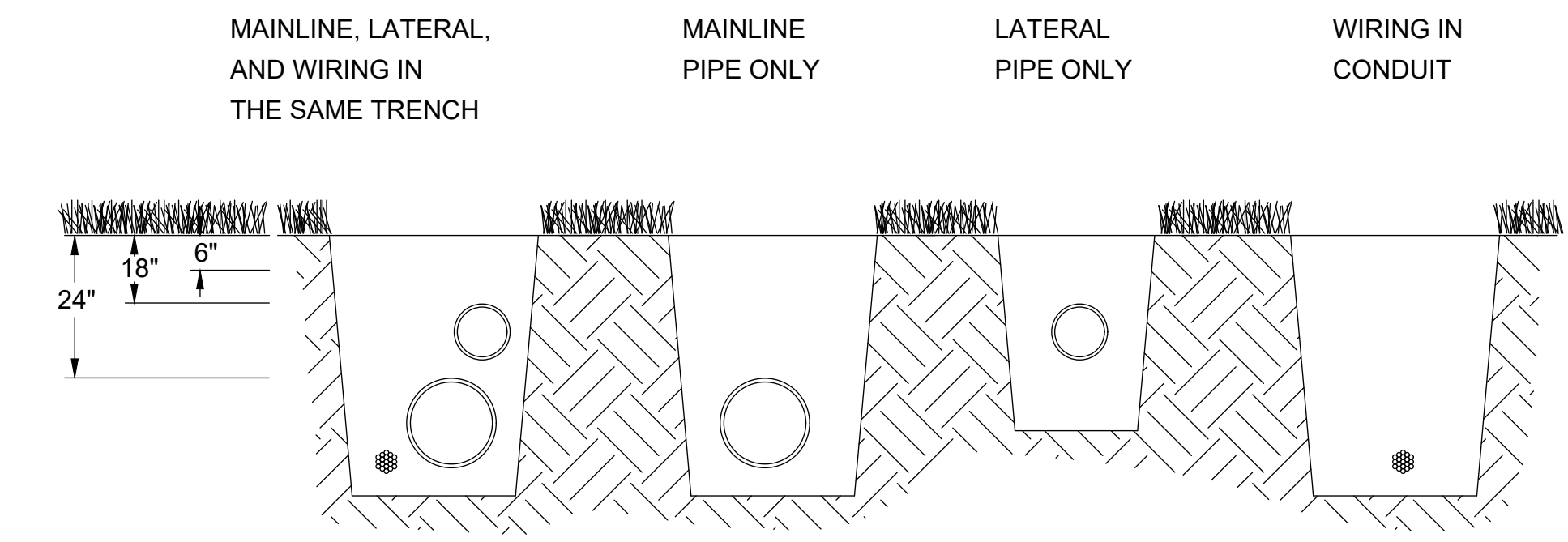
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 IRRIGATION DETAILS
 SHEET NO:
 1200



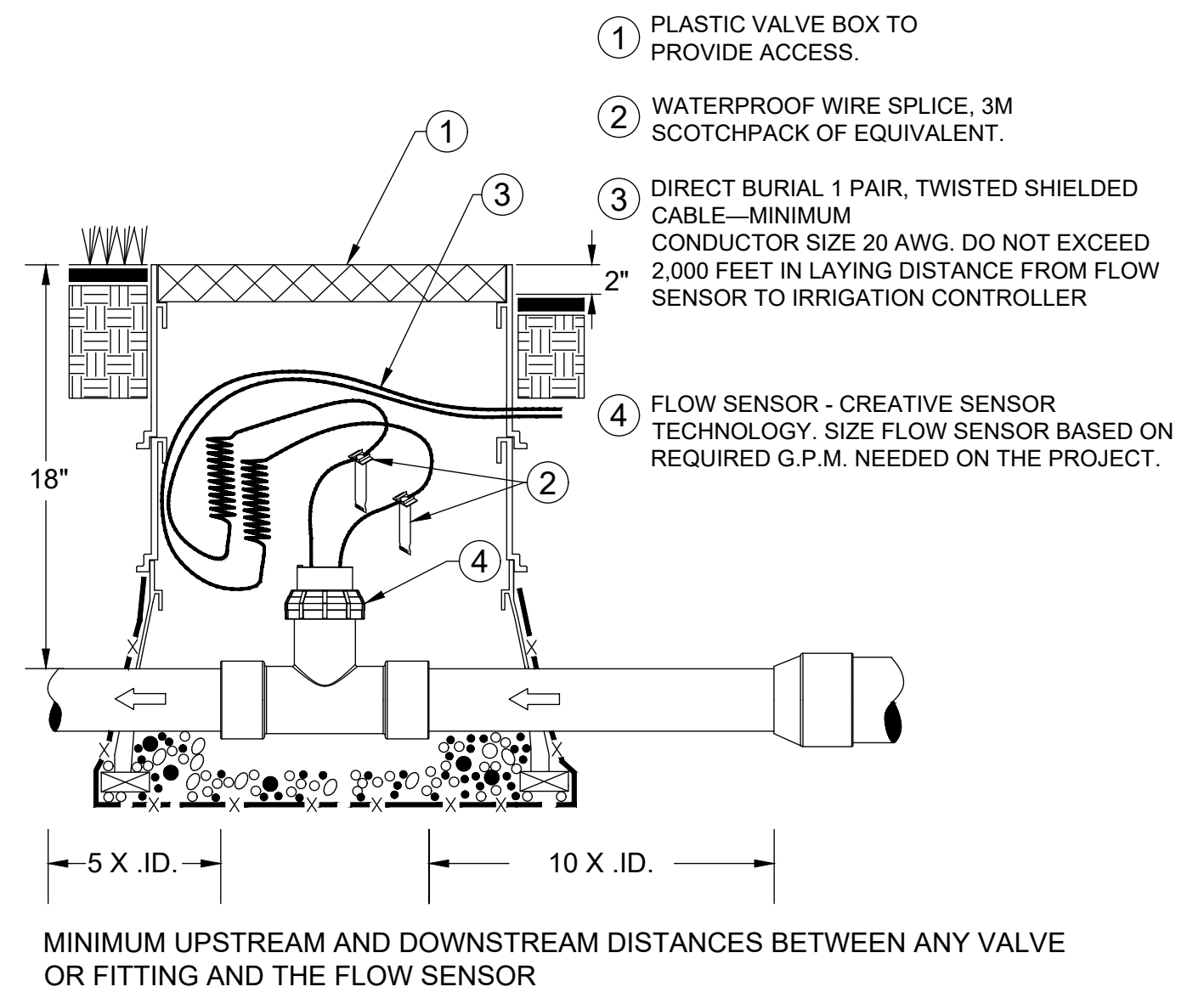
10 REDUCED PRESSURE ASSEMBLY
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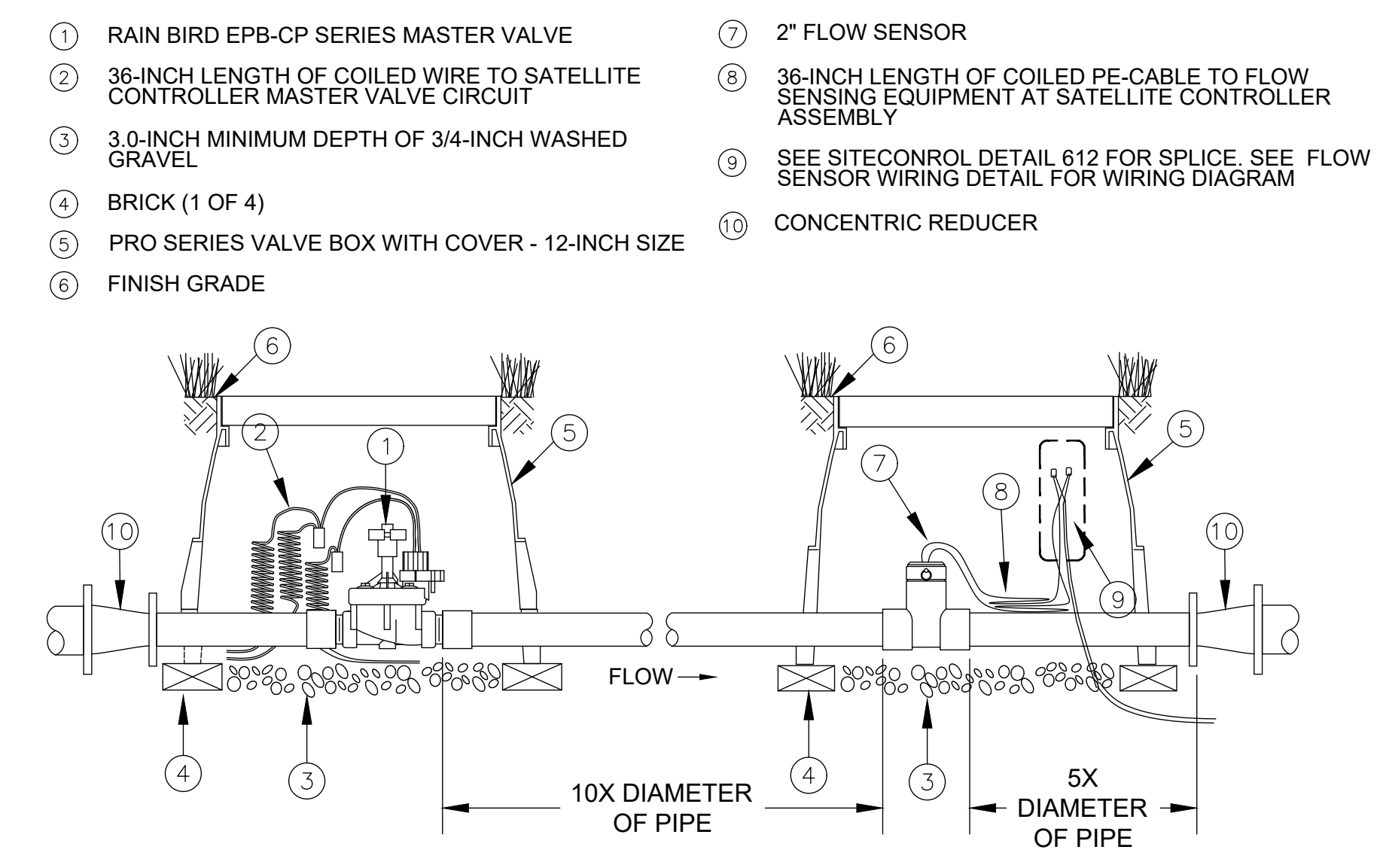
11 SLEEVING
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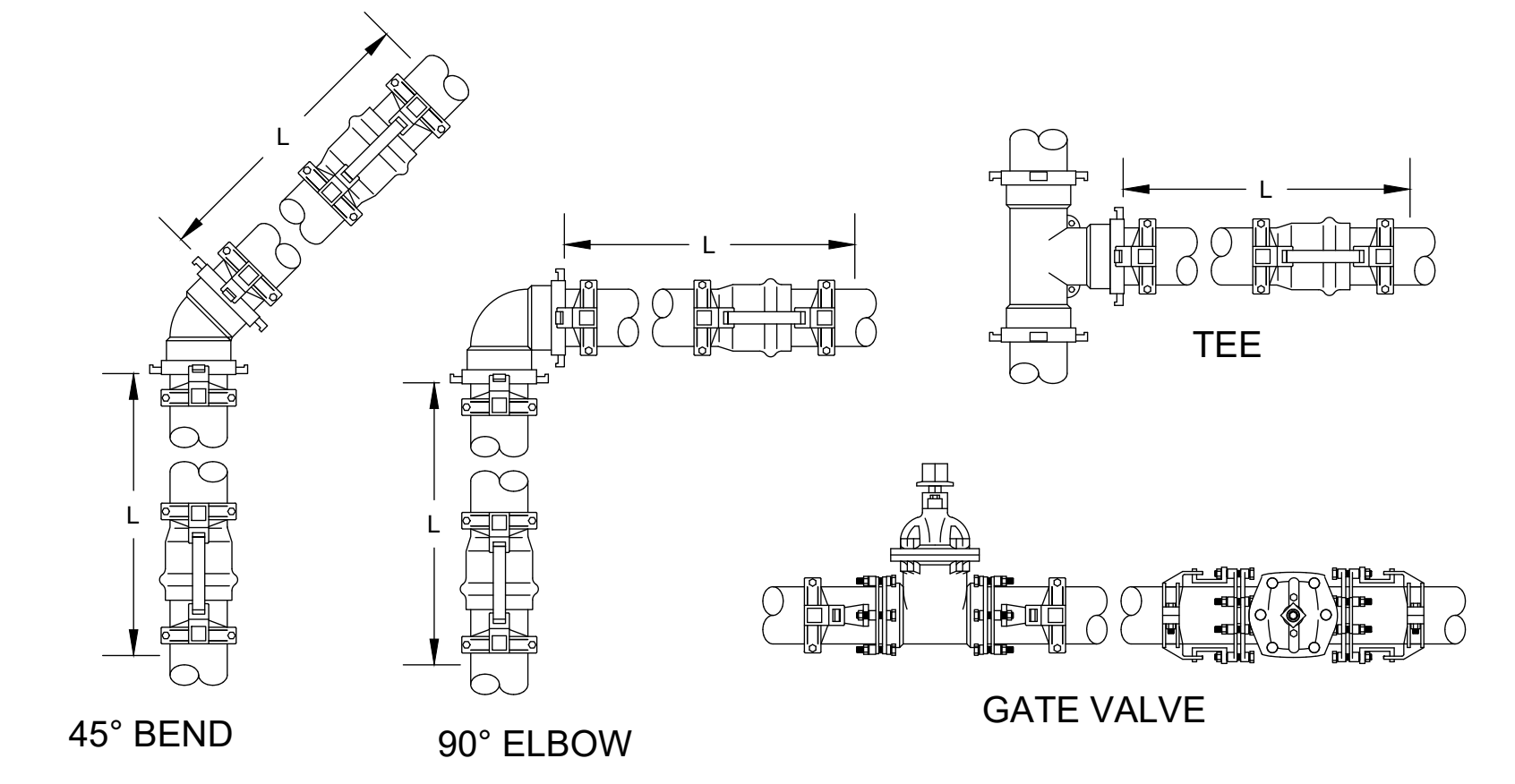
12 TRENCH PIPE AND WIRE
NOT TO SCALE



13 FLOW SENSOR DETAIL
NOT TO SCALE



14 FLOW SENSOR AND MASTER VALVE ASSEMBLY
NOT TO SCALE



15 DUCTILE IRON JOINT RESTRAINTS
NOT TO SCALE

16 RESERVED
NOT TO SCALE

17 RESERVED
NOT TO SCALE

18 RESERVED
NOT TO SCALE

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CITY OF CONCORD
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OWNER:

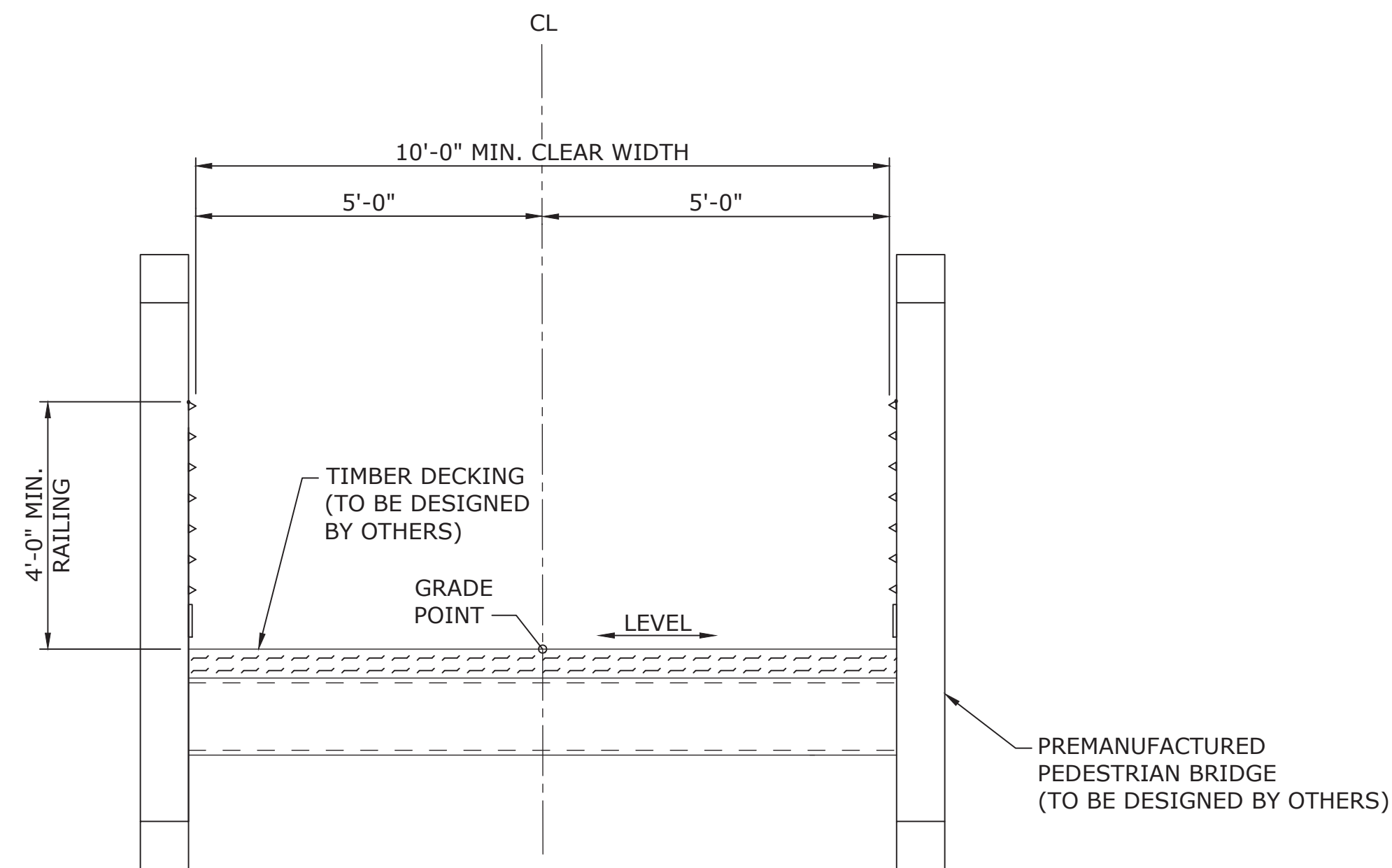
DORTON PARK RENOVATION
5650 POPLAR TENT ROAD
CONCORD, NORTH CAROLINA

SCALE: NTS
DATE: 5-4-23
SHEET NAME:
IRRIGATION
DETAILS
SHEET NO:
1201

PERMIT SET

GENERAL NOTES:

1. THESE BRIDGES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009.
2. UNIFORM LIVE LOAD = 90 PSF AS PER LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
3. DESIGN VEHICLE LOADING = AASHTO H5 (INCLUDES AMBULANCES AND OTHER VEHICLES/EQUIPMENT UP TO 10,000 LB).
4. ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE HPS 50W.
5. BRIDGE STRUCTURES S1 & S2 SHALL BE PREMANUFACTURED PEDESTRIAN BRIDGES.
6. FABRICATOR OF PREMANUFACTURED PEDESTRIAN BRIDGES SHALL INDICATE THE LOCATION OF DRAINAGE HOLES FOR THE BRIDGE TUBULAR MEMBERS IN THE SHOP DRAWINGS.
7. ANCHOR BOLTS FOR PREMANUFACTURED PEDESTRIAN BRIDGES SHALL BE ASTM F1554 GRADE 105.
8. TIMBER DECKING SHALL BE TREATED TIMBER IN ACCORDANCE WITH 2018 NCDOT STANDARD SPECIFICATIONS, SECTION 1082 AND SHALL BE SELECT STRUCTURAL GRADE.
9. CONTRACTOR SHALL LOCATE ALL UTILITIES AND UTILITY ELEVATIONS PRIOR TO CONSTRUCTION. ALL UTILITIES TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
10. THE FOLLOWING UTILITY LINES ARE EXPECTED TO BE ATTACHED TO STRUCTURE S2. THE PLACEMENT OF THESE UTILITY LINES SHALL BE COORDINATED WITH THE UTILITY OWNERS AND PREMANUFACTURED PEDESTRIAN BRIDGE DESIGNER.
 - (1) 2" PVC ELECTRICAL CONDUIT
 - (2) 1-1/4" PVC ELECTRICAL CONDUITS
 - (1) 3/4" PVC ELECTRICAL CONDUIT
 - (1) 1" PEX WATER LINE
11. FOR SUBMITTALS, SEE SPECIAL PROVISIONS.
12. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
13. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
14. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
15. FOR PREMANUFACTURED PEDESTRIAN BRIDGE DETAILS, SEE SPECIAL PROVISIONS.
16. BRIDGE LOADINGS ARE ESTIMATED. AFTER SHOP DRAWINGS FOR THE PREMANUFACTURED PEDESTRIAN BRIDGE ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO CHECK THE END BENTS FOR ACTUAL BRIDGE LOADINGS. SHOP DRAWINGS SHALL BE FORWARDED TO ENGINEER OF RECORD UPON RECEIPT.
17. EXCEPT AS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
18. FOR ANY CONSTRUCTION WORK TO OCCUR WITHIN THE WSACC EASEMENTS ON SITE, CONTRACTOR SHALL NOTIFY MARK LOMAX (MLOMAX@WSACC.ORG, 704.202.6014) A MINIMUM OF 48 HOURS IN ADVANCE. SPECIFICALLY, BUT NOT LIMITED TO THE FOLLOWING ACTIVITIES:
 - GRADING MODIFICATIONS AND/OR EXCAVATIONS WITHIN THE SEWER EASEMENTS, WHICH EITHER EXPOSE AND OR REDUCE COVER FROM OVER THE EXISTING WSACC SEWER PIPES TO LESS THAN 2 VERTICAL FEET OR GENERALLY CHANGE THE WSACC EASEMENT CONTOURS GREATER THAN 2 VERTICAL FEET.
 - SUBSURFACE PLACEMENT OF STRUCTURAL OR UTILITY INSTALLATIONS, WHICH GENERALLY INCLUDES THE INSTALLATION OF STRUCTURAL H-PILES OR INSTALLATION OF STORMWATER INFRASTRUCTURE.
 - ANY PROJECT RELATED SANITARY FACILITIES NEEDING TO BE CONNECTED TO THE WSACC SEWER SYSTEM.



TYPICAL SECTION PREMANUFACTURED PEDESTRIAN BRIDGE

PEDESTRIAN BRIDGE LOCATIONS							
BRIDGE #	CHAIN	BEGIN STATION	ELEVATION	END STATION	ELEVATION	LENGTH	REMARKS
S1	-E-	1+07.00	598.00	1+79.00	598.00	72.00'	-
S2	-E-	1+27.00	597.00	1+99.00	597.00	72.00'	-

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100% FINAL PLANS - BID SET

CLIENT CITY OF CONCORD

REVISIONS
NO. DATE

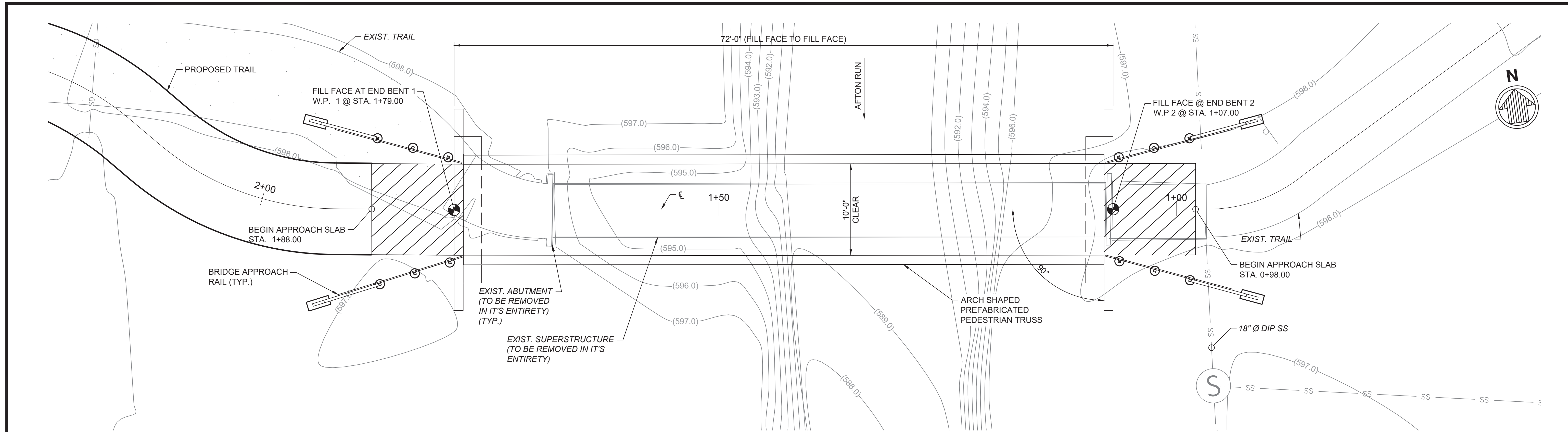
STRUCTURAL ENGINEER
moffatt & nichol
4700 FALLS OF NEUSE RD,
SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105



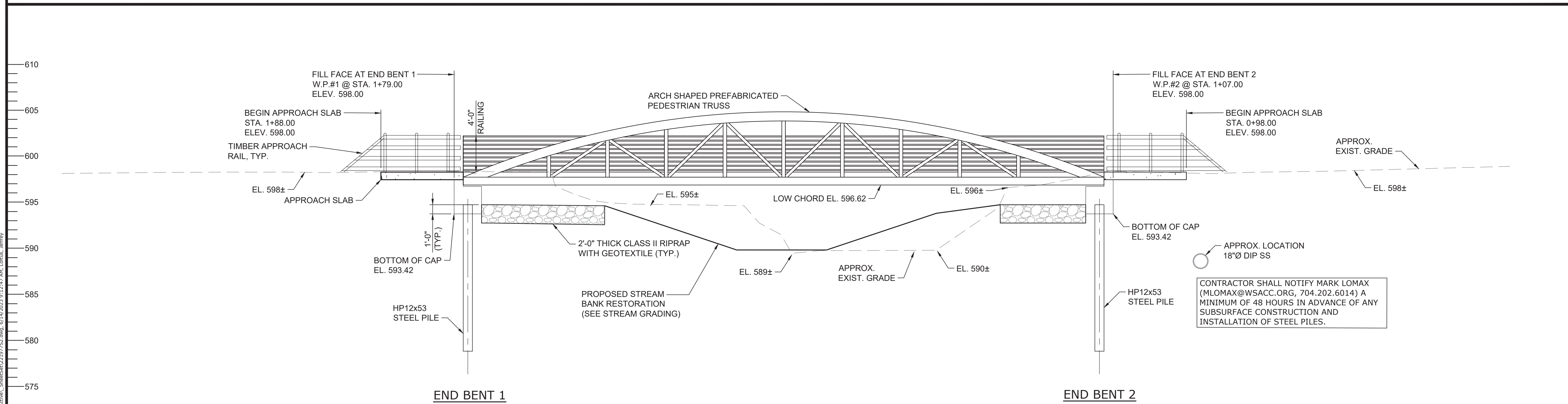
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
GENERAL NOTES & TYPICAL SECTION

PLAN INFORMATION
PROJECT NO. 221977
FILENAME GENERAL NOTES.dwg
CHECKED BY P. JACOB
DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

S-1

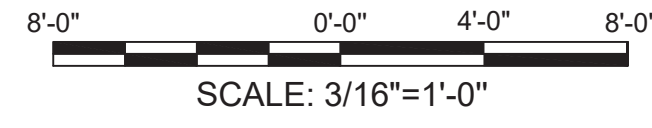


BRIDGE S1 PLAN - DORTON PARK



SECTION ALONG CL BRIDGE S1

CONTRACTOR SHALL NOTIFY MARK LOMAX (MLOMAX@WSACC.ORG, 704.202.6014) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY SUBSURFACE CONSTRUCTION AND INSTALLATION OF STEEL PILES.



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moffatt & nichol
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SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105



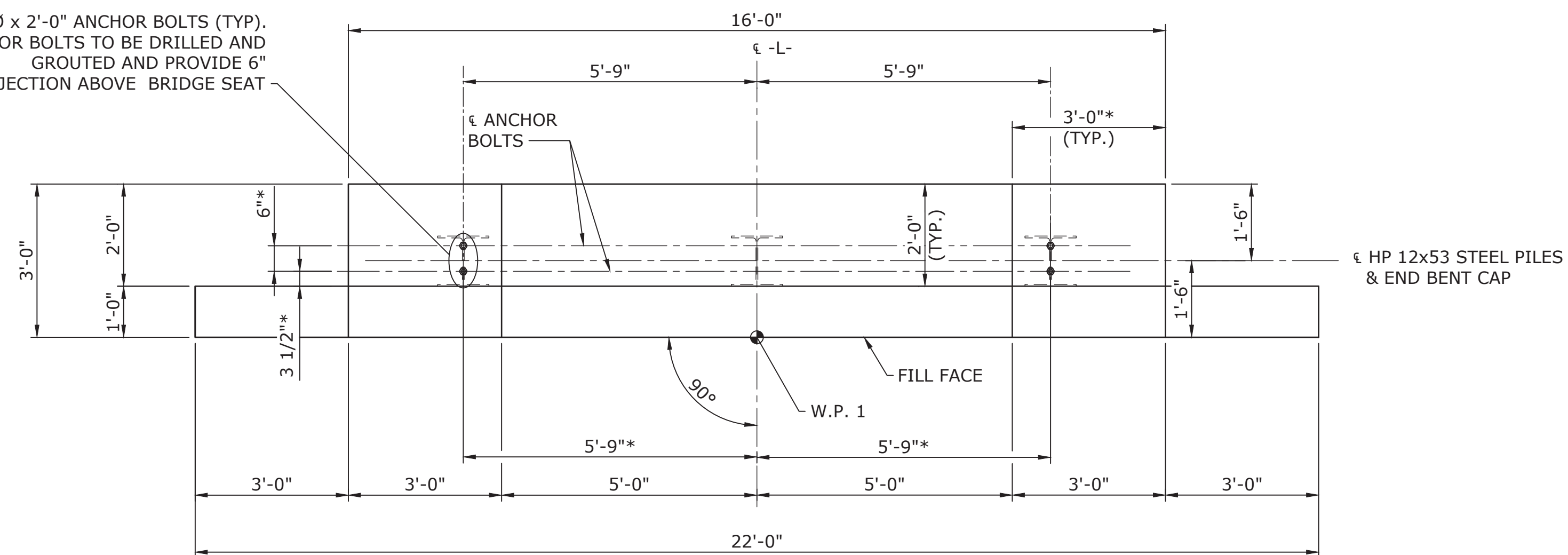
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S1

PLAN INFORMATION
PROJECT NO. 221977
FILENAME S-2 BRIDGE S1.DWG
CHECKED BY P. JACOB
DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

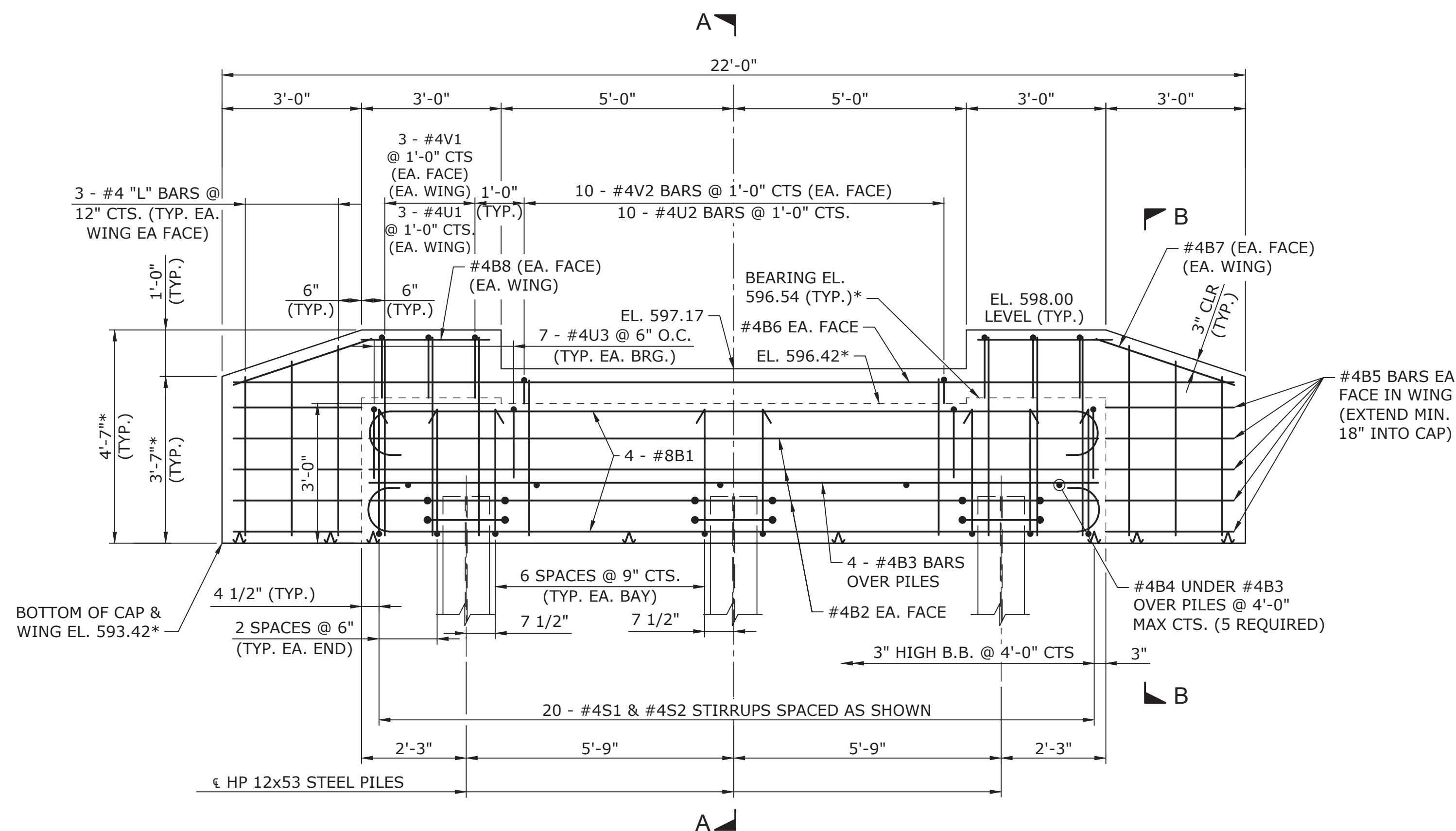
S-2

100% FINAL PLANS - BID SET

2 - 1"Ø x 2'-0" ANCHOR BOLTS (TYP). ANCHOR BOLTS TO BE DRILLED AND GROUTED AND PROVIDE 6" PROJECTION ABOVE BRIDGE SEAT



PLAN OF END BENT 1



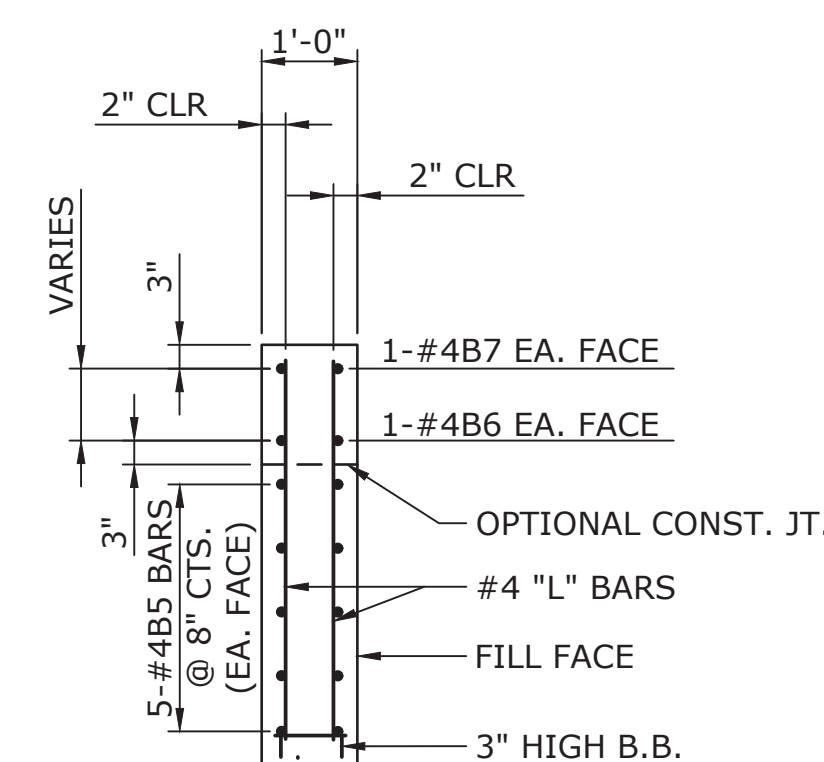
ELEVATION OF END BENT 1

NOTES:

1. FOR CROSS SECTION A-A, SEE SHEET S-5
2. CONCRETE COLLARS FOR STEEL PILES NOT SHOWN IN PLAN AND ELEVATION VIEWS FOR CLARITY.
3. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL", SHEET S-5.

NOTES:

1. DIMENSIONS MARKED WITH AN ASTERISK ARE TO BE ADJUSTED BY THE STRUCTURAL ENGINEER AFTER PREMANUFACTURED BRIDGE IS DESIGNED AND SHOP DRAWINGS HAVE BEEN ISSUED AND APPROVED. UPON RECEIPT OF APPROVED BRIDGE SHOP DRAWINGS, THE CONSTRUCTION ADMINISTRATOR SHALL FORWARD THE BRIDGE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER WILL THEN UPDATE AND ISSUE A NEW SET OF STRUCTURAL DRAWINGS FOR THE PROJECT.
2. DIMENSIONS, CONCRETE QUANTITIES AND REINFORCING STEEL QUANTITIES ARE SUBJECT TO CHANGE UNTIL AFTER SHOP DRAWINGS ARE REVIEWED AND APPROVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ADJUSTMENTS TO QUANTITIES.



SECTION B-B
TYP. BOTH WINGS

PEDESTRIAN BRIDGE S1

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100% FINAL PLANS - BID SET

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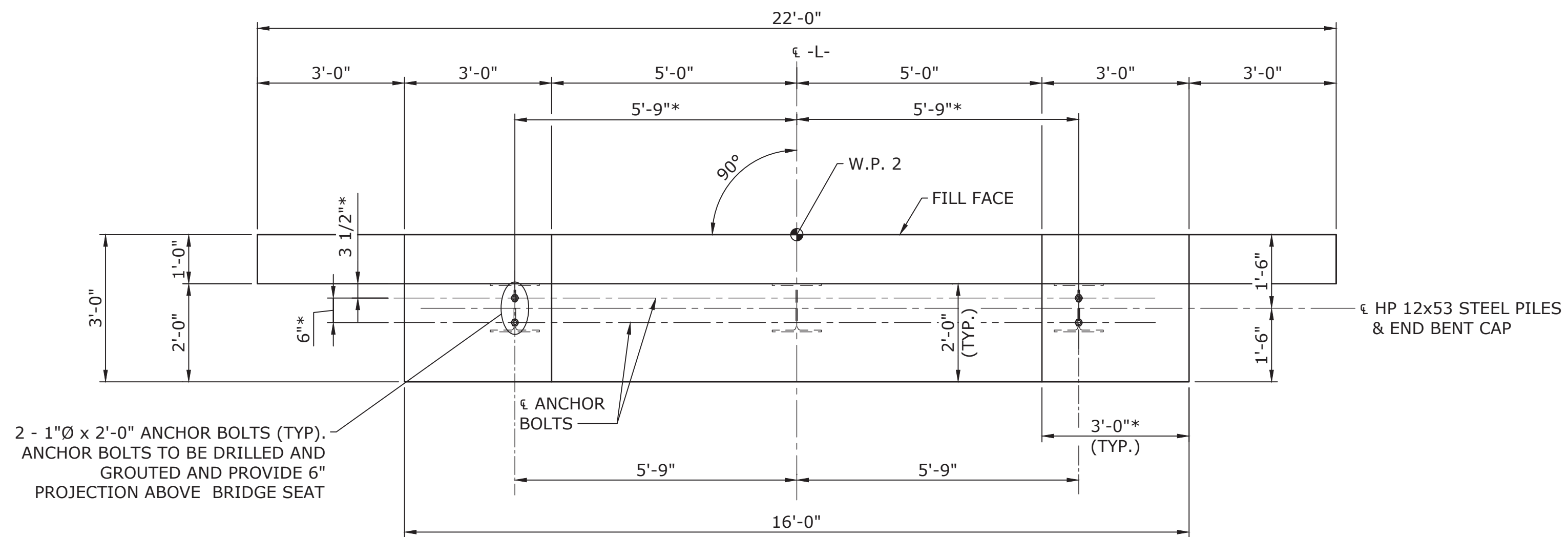
STRUCTURAL ENGINEER
moffatt & nichol
4700 FALLS OF NEUSE RD,
SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105



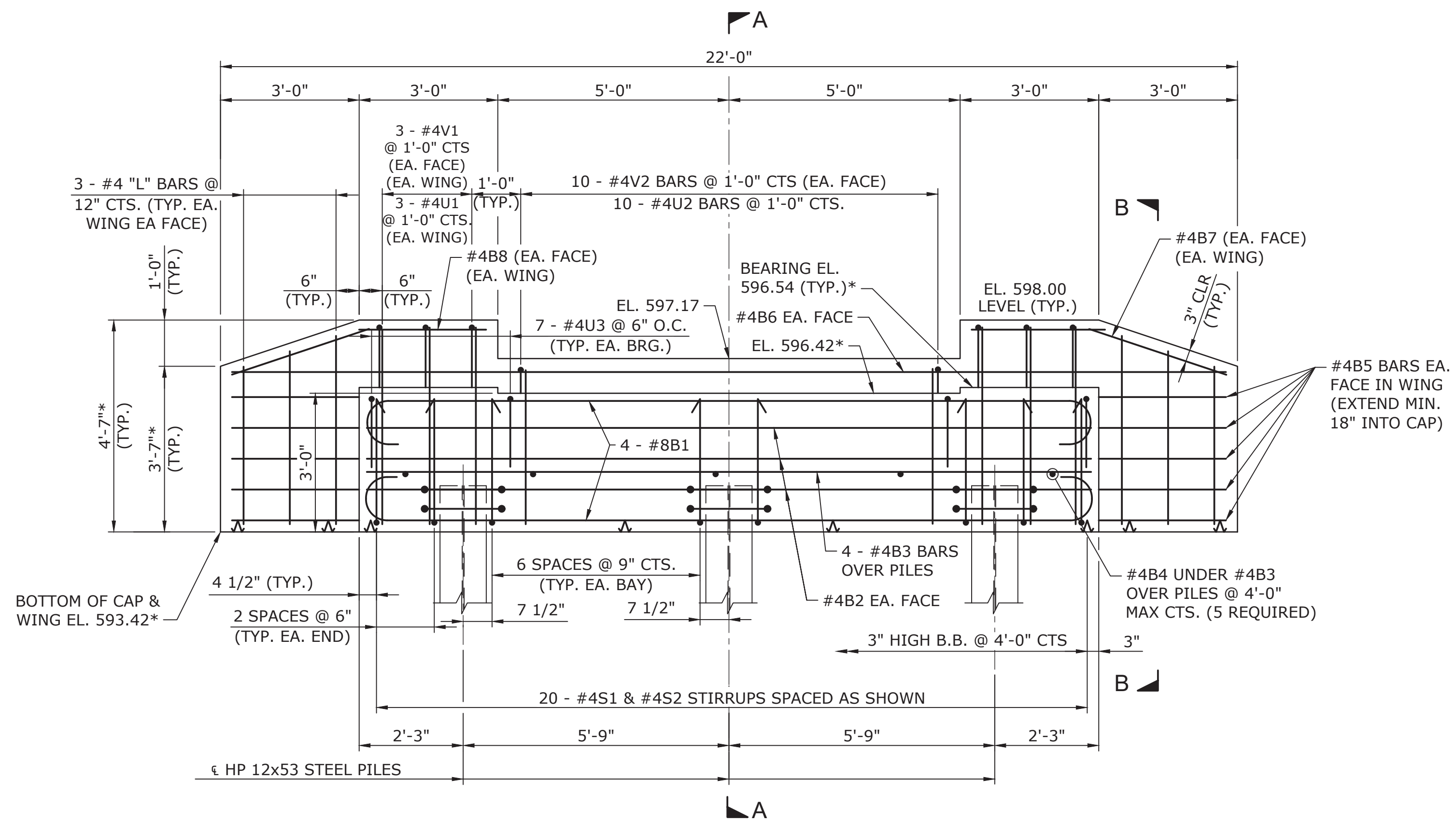
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S1 END BENT 1

PLAN INFORMATION
PROJECT NO. 221977
FILENAME S1 END BENT 1.dwg
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DATE 06-14-2023

S-3



PLAN OF END BENT 2



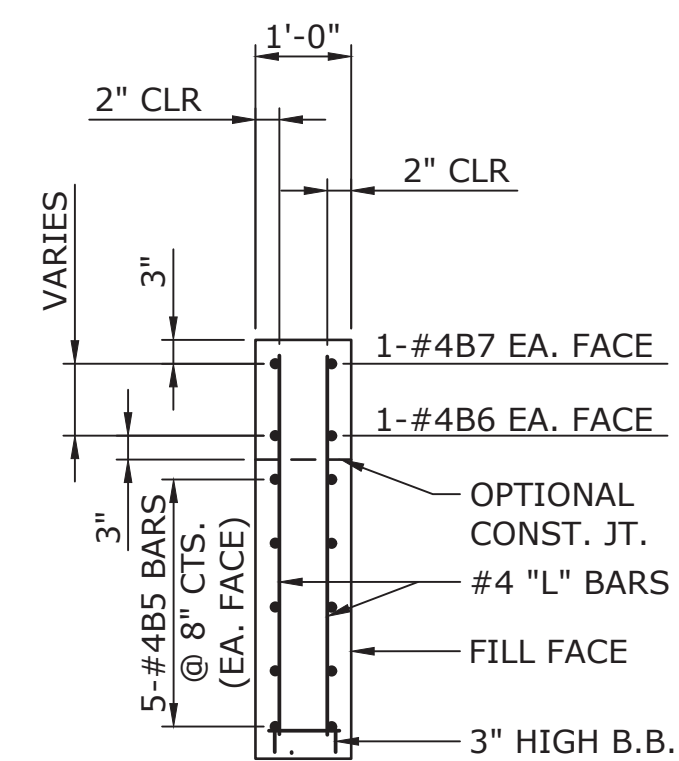
ELEVATION OF END BENT 2

NOTES:

1. FOR CROSS SECTION A-A, SEE SHEET S-5
2. CONCRETE COLLARS FOR STEEL PILES NOT SHOWN IN PLAN AND ELEVATION VIEWS FOR CLARITY.
3. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL", SHEET S-5.

NOTES:

1. DIMENSIONS MARKED WITH AN ASTERISK ARE TO BE ADJUSTED BY THE STRUCTURAL ENGINEER AFTER PREMANUFACTURED BRIDGE IS DESIGNED AND SHOP DRAWINGS HAVE BEEN ISSUED AND APPROVED. UPON RECEIPT OF APPROVED BRIDGE SHOP DRAWINGS, THE CONSTRUCTION ADMINISTRATOR SHALL FORWARD THE BRIDGE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER WILL THEN UPDATE AND ISSUE A NEW SET OF STRUCTURAL DRAWINGS FOR THE PROJECT.
2. DIMENSIONS, CONCRETE QUANTITIES AND REINFORCING STEEL QUANTITIES ARE SUBJECT TO CHANGE UNTIL AFTER SHOP DRAWINGS ARE REVIEWED AND APPROVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ADJUSTMENTS TO QUANTITIES.
3. CONTRACTOR SHALL NOTIFY MARK LOMAX (MLOMAX@WSACC.ORG, 704.202.6014) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY SUBSURFACE CONSTRUCTION AND INSTALLATION OF STEEL PILES.



SECTION B-B
TYP. BOTH WINGS

PEDESTRIAN BRIDGE S1

100% FINAL PLANS - BID SET

CLIENT CITY OF CONCORD

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SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105



DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S1 END BENT 2

PLAN INFORMATION
PROJECT NO. 221977
FILENAME S1 END BENT 2.dwg
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DATE 06-14-2023

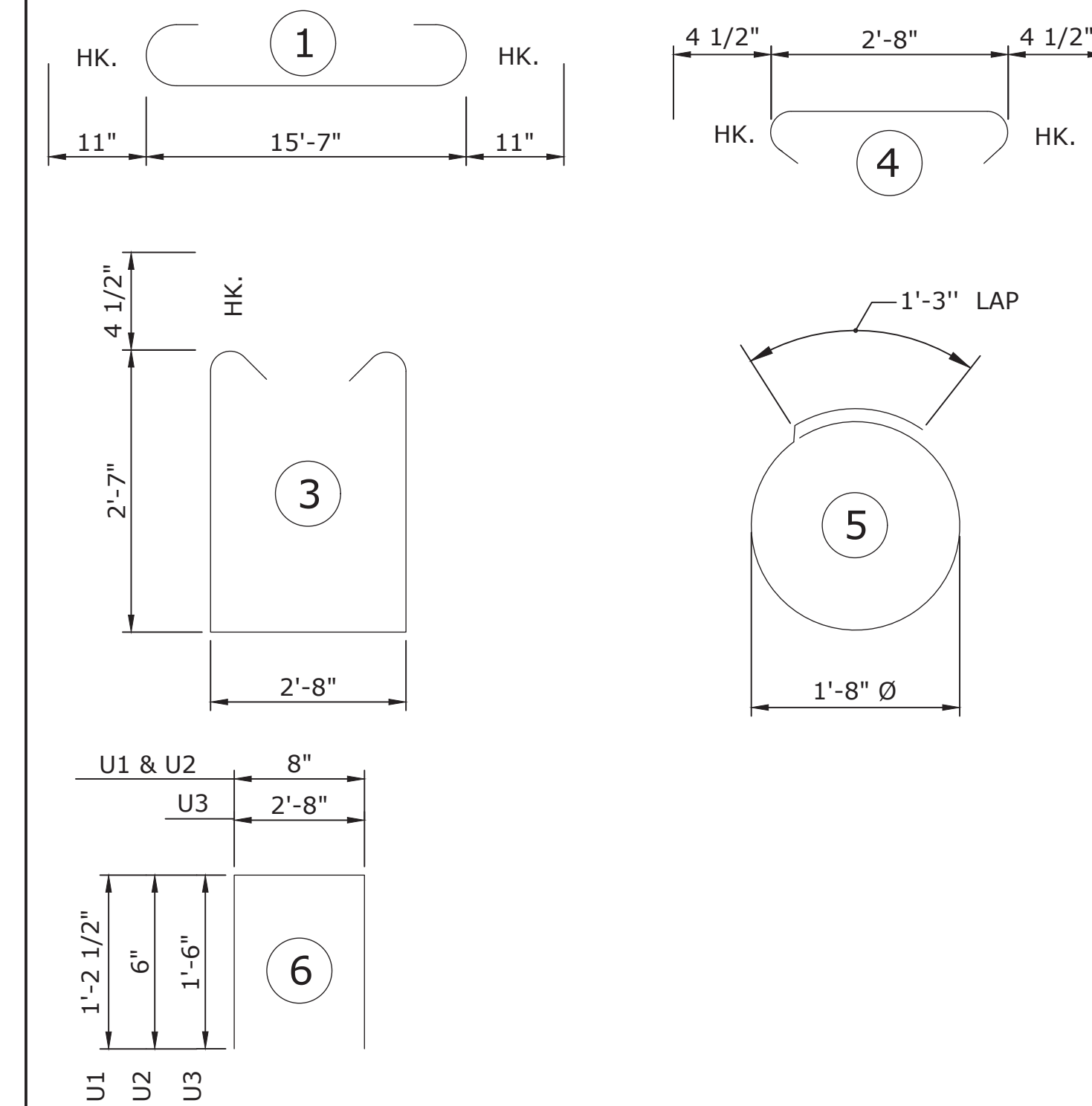
S-4

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NOTES:

- STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHOR BOLTS.
- THE TOP SURFACE OF THE CAP EXCEPT THE BRIDGE SEAT BUILDUPS SHALL BE SLOPED TRANSVERSELY FROM THE BACKWALL TO EDGE OF CAP AT THE RATE OF 2%.
- ANCHOR BOLTS SHALL BE SET BY DRILLING HOLES AND GROUTING AFTER THE CAP HAS BEEN POURED AND CURED. EMBEDMENT DEPTH OF ANCHORS SHALL BE AT LEAST 15 INCHES. WHEN PLACING MAIN CAP STEEL, ENSURE THAT FUTURE DRILLING FOR ANCHOR BOLTS WILL BE AT LEAST ONE INCH CLEAR FROM EDGE OF REINFORCING BAR.
- NO ADDITIONAL PAYMENT IS MADE FOR REINFORCING STEEL OR CONCRETE. THE ENTIRE COST OF THIS WORK TO BE INCLUDED AMONG THE VARIOUS PAY ITEMS.
- FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 450 OF THE NCDOT STANDARD SPECIFICATIONS.
- DIMENSIONS, CONCRETE QUANTITIES AND REINFORCING STEEL QUANTITIES ARE SUBJECT TO CHANGE UNTIL AFTER SHOP DRAWINGS ARE REVIEWED AND APPROVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ADJUSTMENTS TO QUANTITIES.
- DIMENSIONS MARKED WITH AN ASTERISK ARE TO BE ADJUSTED BY THE STRUCTURAL ENGINEER AFTER PREMANUFACTURED BRIDGE IS DESIGNED AND SHOP DRAWINGS HAVE BEEN ISSUED AND APPROVED. UPON RECEIPT OF APPROVED BRIDGE SHOP DRAWINGS, THE CONSTRUCTION ADMINISTRATOR SHALL FORWARD THE BRIDGE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER WILL THEN UPDATE AND ISSUE A NEW SET OF STRUCTURAL DRAWINGS FOR THE PROJECT.

BAR TYPES

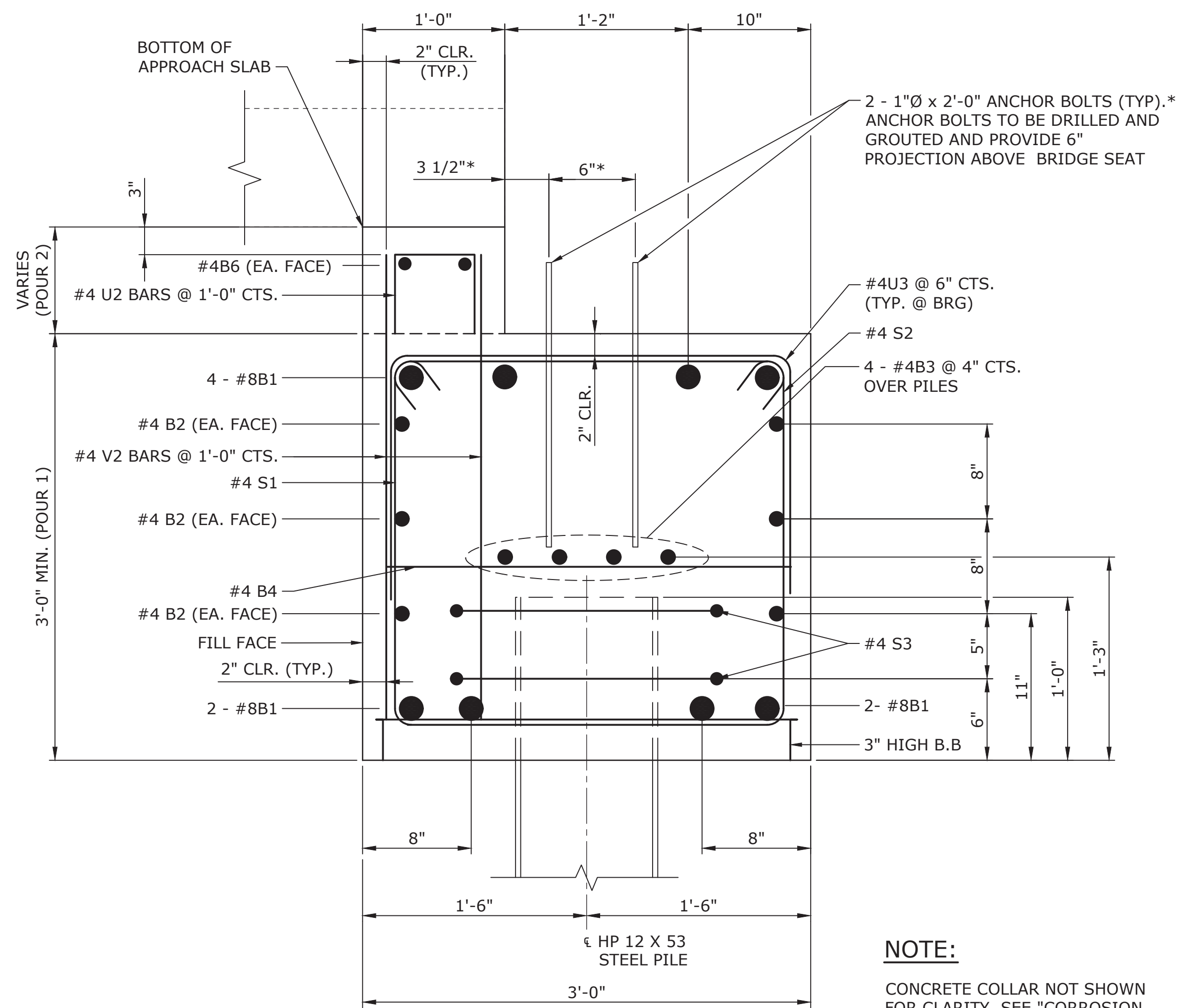


BILL OF MATERIAL

FOR ONE END BENT					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#8	1	17'-5"	372
B2	6	#4	STR	15'-8"	63
B3	4	#4	STR	15'-8"	42
B4	5	#4	STR	2'-8"	9
B5	20	#4	STR	4'-4"	58
B6	2	#4	STR	21'-8"	29
B7	4	#4	STR	3'-0"	8
B8	4	#4	STR	2'-9"	7
S1	20	#4	3	8'-7"	115
S2	20	#4	4	3'-5"	46
S3	6	#4	5	6'-6"	26
U1*	6	#4	6	3'-1"	12
U2*	10	#4	6	1'-8"	11
U3	14	#4	6	5'-8"	53
L1*	4	#4	STR	3'-3"	9
L2*	4	#4	STR	3'-7"	10
L3*	4	#4	STR	3'-11"	10
V1*	12	#4	STR	4'-1"	33
V2*	20	#4	STR	3'-3"	43
REINFORCING STEEL					956 LBS.
CLASS A CONCRETE BREAKDOWN					
POUR 1 - CAP & LOWER WINGS					6.7 C.Y.
POUR 2 - BACKWALL & UPPER WINGS					0.9 C.Y.
TOTAL CLASS A CONCRETE					7.6 C.Y.
HP 12 X 53 STEEL PILES					
END BENT #1	NO: 3	LIN. FT. = 30*			
END BENT #2	NO: 3	LIN. FT. = 30*			
STEEL PILE POINTS					
END BENT #1	NO: 3				
END BENT #2	NO: 3				

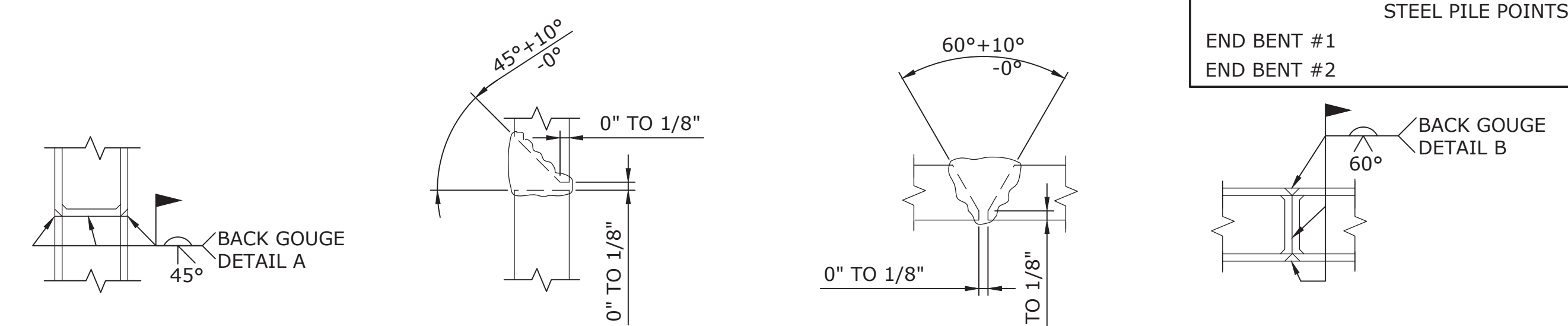
ALL BAR DIMENSIONS ARE OUT TO OUT.

*PILE LENGTHS ARE ESTIMATED BASED ON GEOTECH BORINGS FOR BIDDING PURPOSES

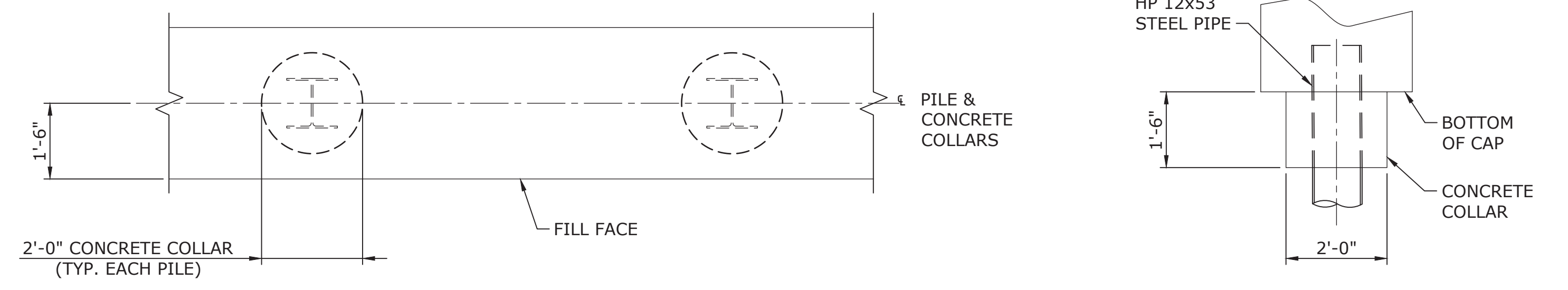


SECTION A-A
BRIDGE S1 - END BENT DETAILS

NOTE:
CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL."



PILE SPLICE DETAILS



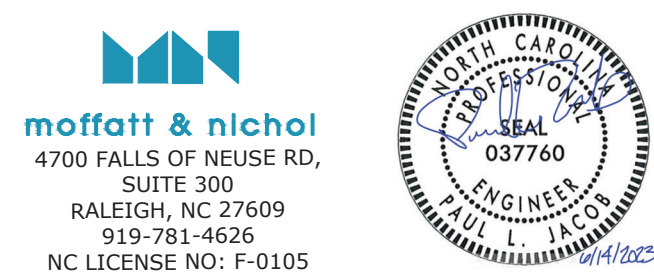
PLAN
ELEVATION
CORROSION PROTECTION FOR STEEL PILES DETAIL

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CLIENT CITY OF CONCORD

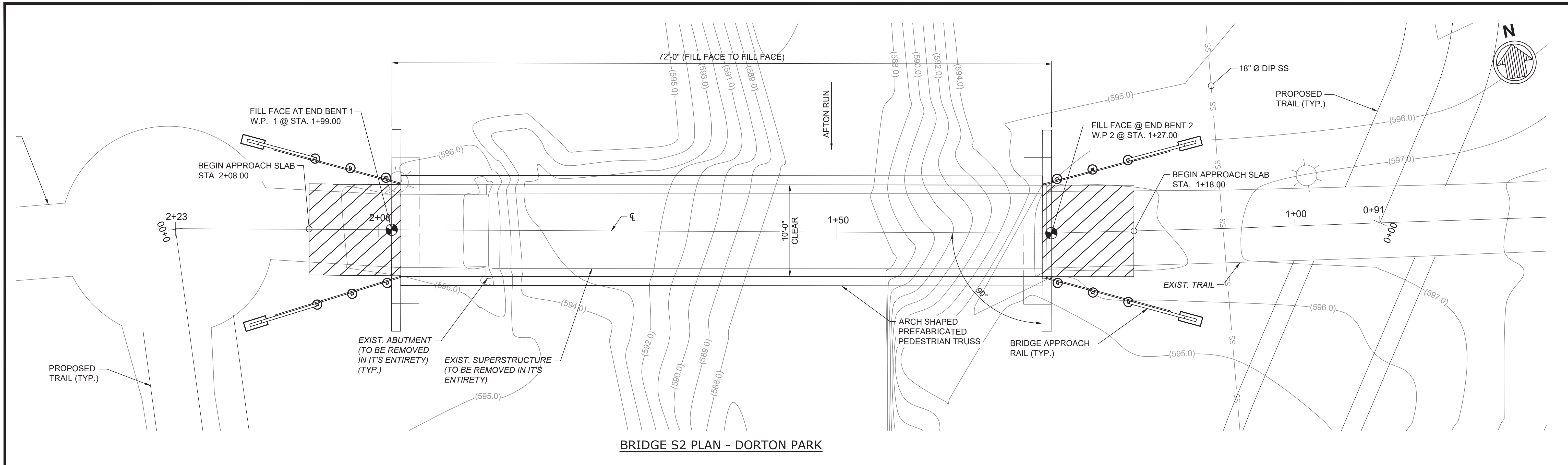
REVISIONS
NO. DATE



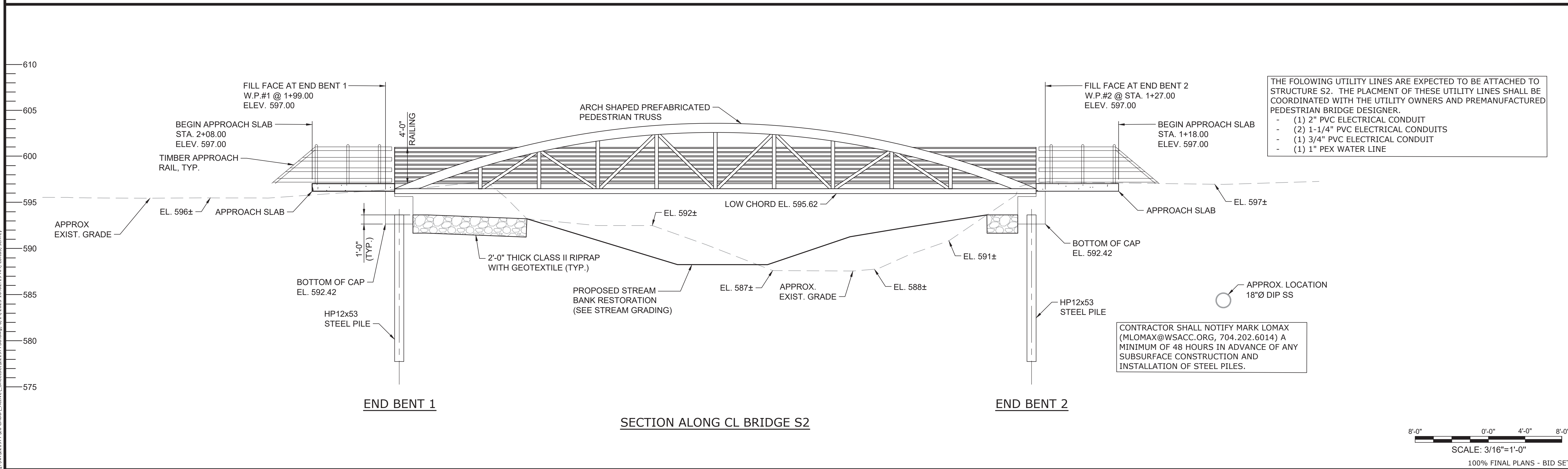
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S1 - END BENT DETAILS

PLAN INFORMATION
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FILENAME S1 DETAILS.dwg
CHECKED BY P. JACOB
DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

S-5



BRIDGE S2 PLAN - DORTON PARK

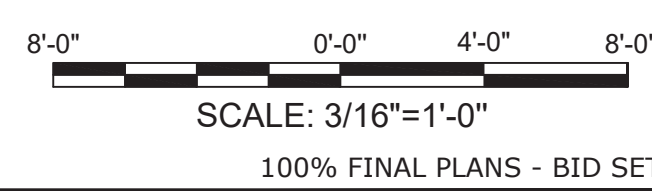


SECTION ALONG CL BRIDGE S2

THE FOLLOWING UTILITY LINES ARE EXPECTED TO BE ATTACHED TO STRUCTURE S2. THE PLACEMENT OF THESE UTILITY LINES SHALL BE COORDINATED WITH THE UTILITY OWNERS AND PREFABRICATED PEDESTRIAN BRIDGE DESIGNER.

- (1) 2" PVC ELECTRICAL CONDUIT
- (2) 1-1/4" PVC ELECTRICAL CONDUITS
- (1) 3/4" PVC ELECTRICAL CONDUIT
- (1) 1" PEX WATER LINE

CONTRACTOR SHALL NOTIFY MARK LOMAX (MLOMAX@WSACC.ORG, 704.202.6014) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY SUBSURFACE CONSTRUCTION AND INSTALLATION OF STEEL PILES.



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CLIENT CITY OF CONCORD

REVISIONS
NO. DATE

STRUCTURAL ENGINEER

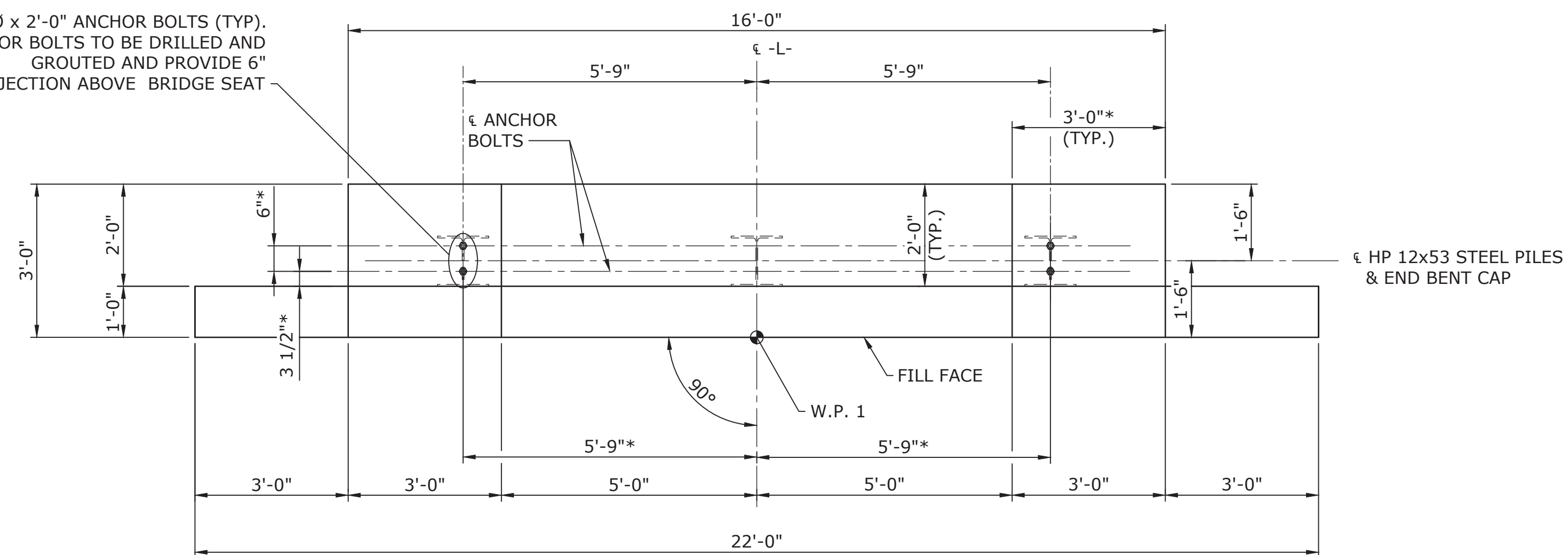
moffatt & nichol
4700 FALLS OF NEUSE RD., SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105

DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S2

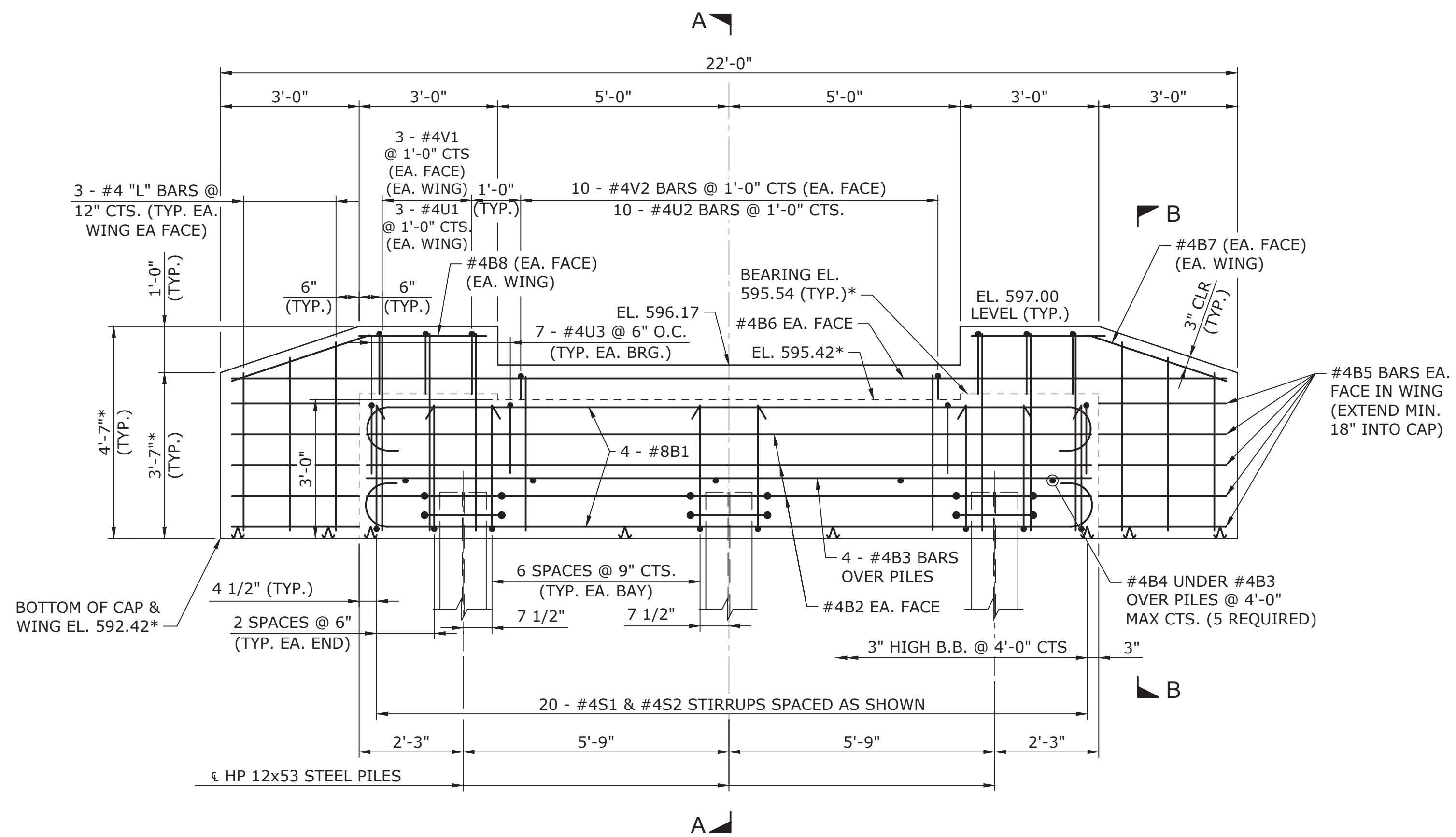
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CHECKED BY P. JACOB
DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

S-6

2 - 1"Ø x 2'-0" ANCHOR BOLTS (TYP). ANCHOR BOLTS TO BE DRILLED AND GROUTED AND PROVIDE 6" PROJECTION ABOVE BRIDGE SEAT



PLAN OF END BENT 1



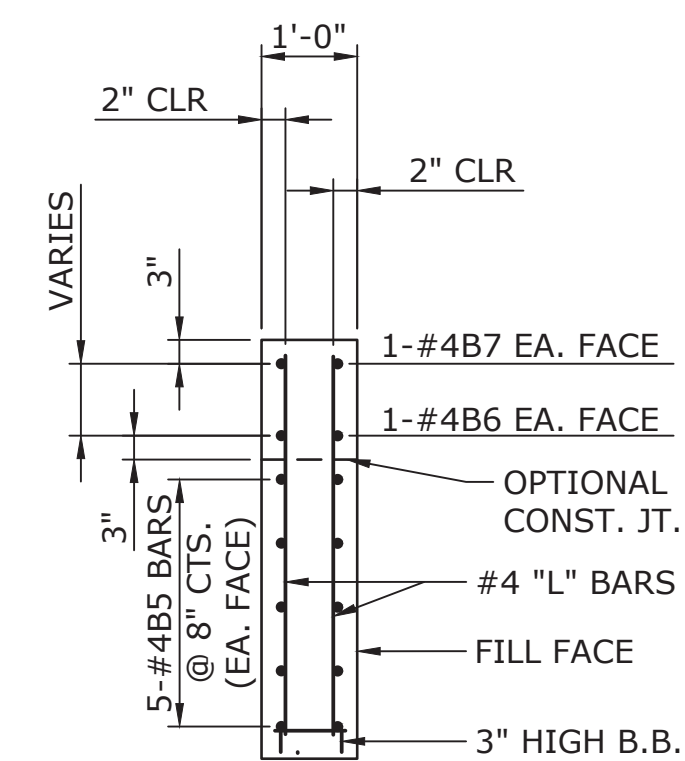
ELEVATION OF END BENT 1

NOTES:

1. FOR CROSS SECTION A-A, SEE SHEET S-9
2. CONCRETE COLLARS FOR STEEL PILES NOT SHOWN IN PLAN AND ELEVATION VIEWS FOR CLARITY.
3. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL", SHEET S-9.

NOTES:

1. DIMENSIONS MARKED WITH AN ASTERISK ARE TO BE ADJUSTED BY THE STRUCTURAL ENGINEER AFTER PREMANUFACTURED BRIDGE IS DESIGNED AND SHOP DRAWINGS HAVE BEEN ISSUED AND APPROVED. UPON RECEIPT OF APPROVED BRIDGE SHOP DRAWINGS, THE CONSTRUCTION ADMINISTRATOR SHALL FORWARD THE BRIDGE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER WILL THEN UPDATE AND ISSUE A NEW SET OF STRUCTURAL DRAWINGS FOR THE PROJECT.
2. DIMENSIONS, CONCRETE QUANTITIES AND REINFORCING STEEL QUANTITIES ARE SUBJECT TO CHANGE UNTIL AFTER SHOP DRAWINGS ARE REVIEWED AND APPROVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ADJUSTMENTS TO QUANTITIES.



SECTION B-B
TYP. BOTH WINGS

PEDESTRIAN BRIDGE S2

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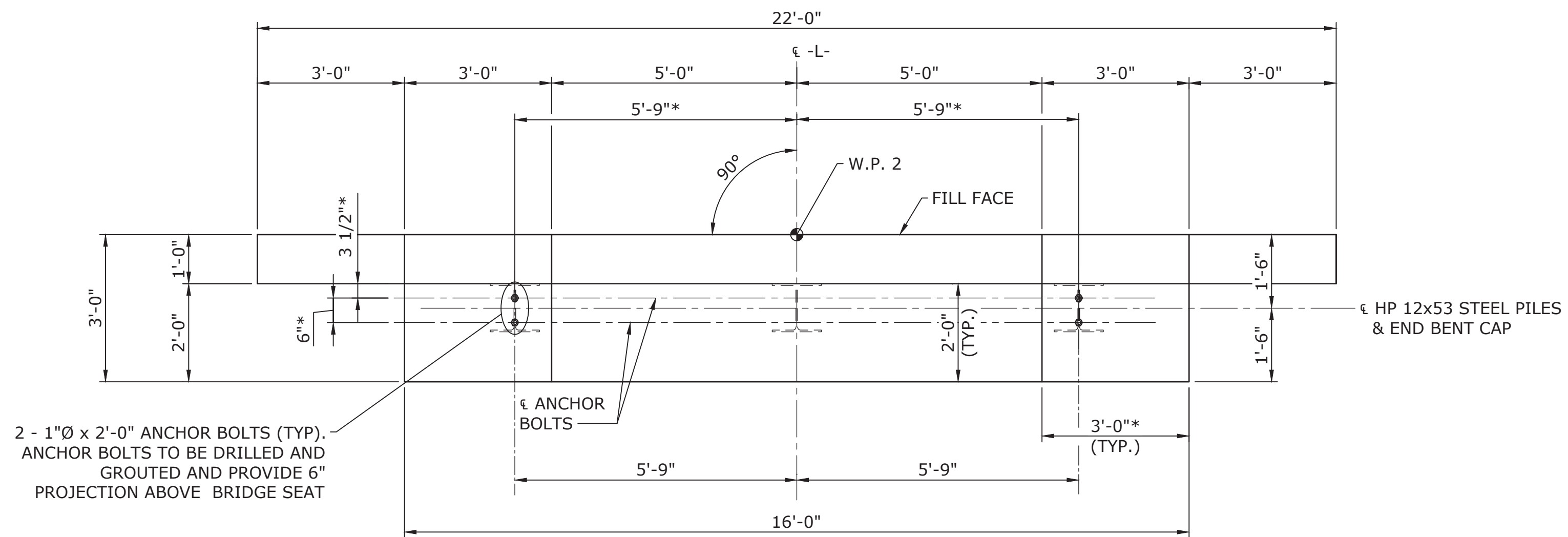
STRUCTURAL ENGINEER
moffatt & nichol
4700 FALLS OF NEUSE RD,
SUITE 300
RALEIGH, NC 27609
919-781-4626
NC LICENSE NO: F-0105



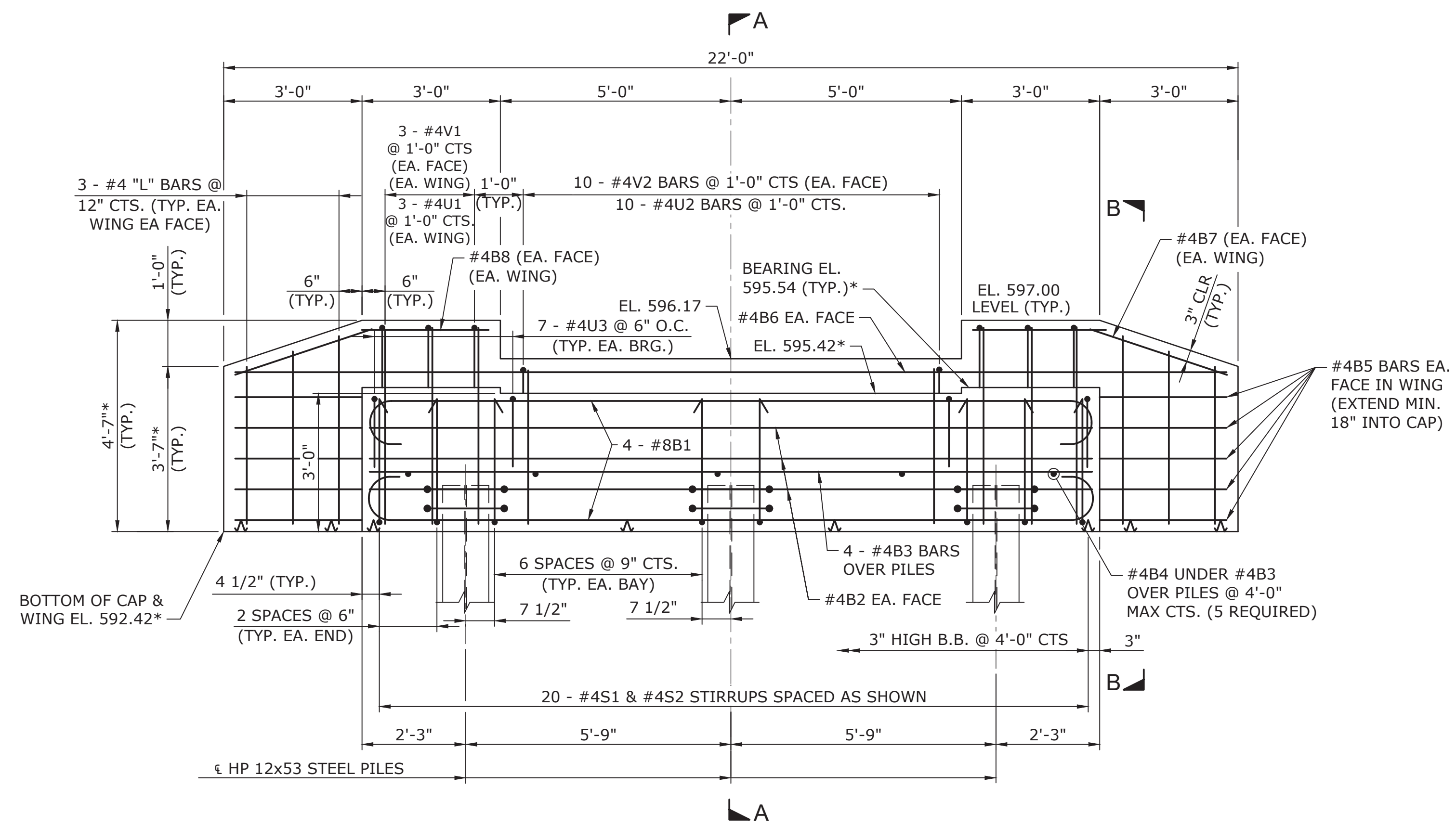
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S2 END BENT 1

PLAN INFORMATION
PROJECT NO. 221977
FILENAME S2 END BENT 1.dwg
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DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

S-7



PLAN OF END BENT 2



ELEVATION OF END BENT 2

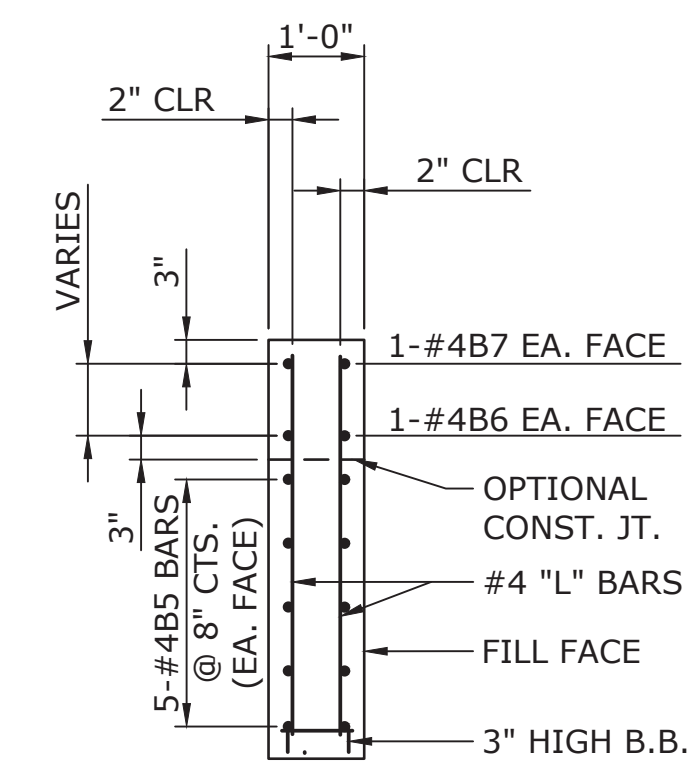
NOTES:

1. FOR CROSS SECTION A-A, SEE SHEET S-9
2. CONCRETE COLLARS FOR STEEL PILES NOT SHOWN IN PLAN AND ELEVATION VIEWS FOR CLARITY.
3. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL", SHEET S-9.

PEDESTRIAN BRIDGE S2

NOTES:

1. DIMENSIONS MARKED WITH AN ASTERISK ARE TO BE ADJUSTED BY THE STRUCTURAL ENGINEER AFTER PREMANUFACTURED BRIDGE IS DESIGNED AND SHOP DRAWINGS HAVE BEEN ISSUED AND APPROVED. UPON RECEIPT OF APPROVED BRIDGE SHOP DRAWINGS, THE CONSTRUCTION ADMINISTRATOR SHALL FORWARD THE BRIDGE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER WILL THEN UPDATE AND ISSUE A NEW SET OF STRUCTURAL DRAWINGS FOR THE PROJECT.
2. DIMENSIONS, CONCRETE QUANTITIES AND REINFORCING STEEL QUANTITIES ARE SUBJECT TO CHANGE UNTIL AFTER SHOP DRAWINGS ARE REVIEWED AND APPROVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ADJUSTMENTS TO QUANTITIES.
3. CONTRACTOR SHALL NOTIFY MARK LOMAX (MLOMAX@WSACC.ORG, 704.202.6014) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY SUBSURFACE CONSTRUCTION AND INSTALLATION OF STEEL PILES.



SECTION B-B
TYP. BOTH WINGS

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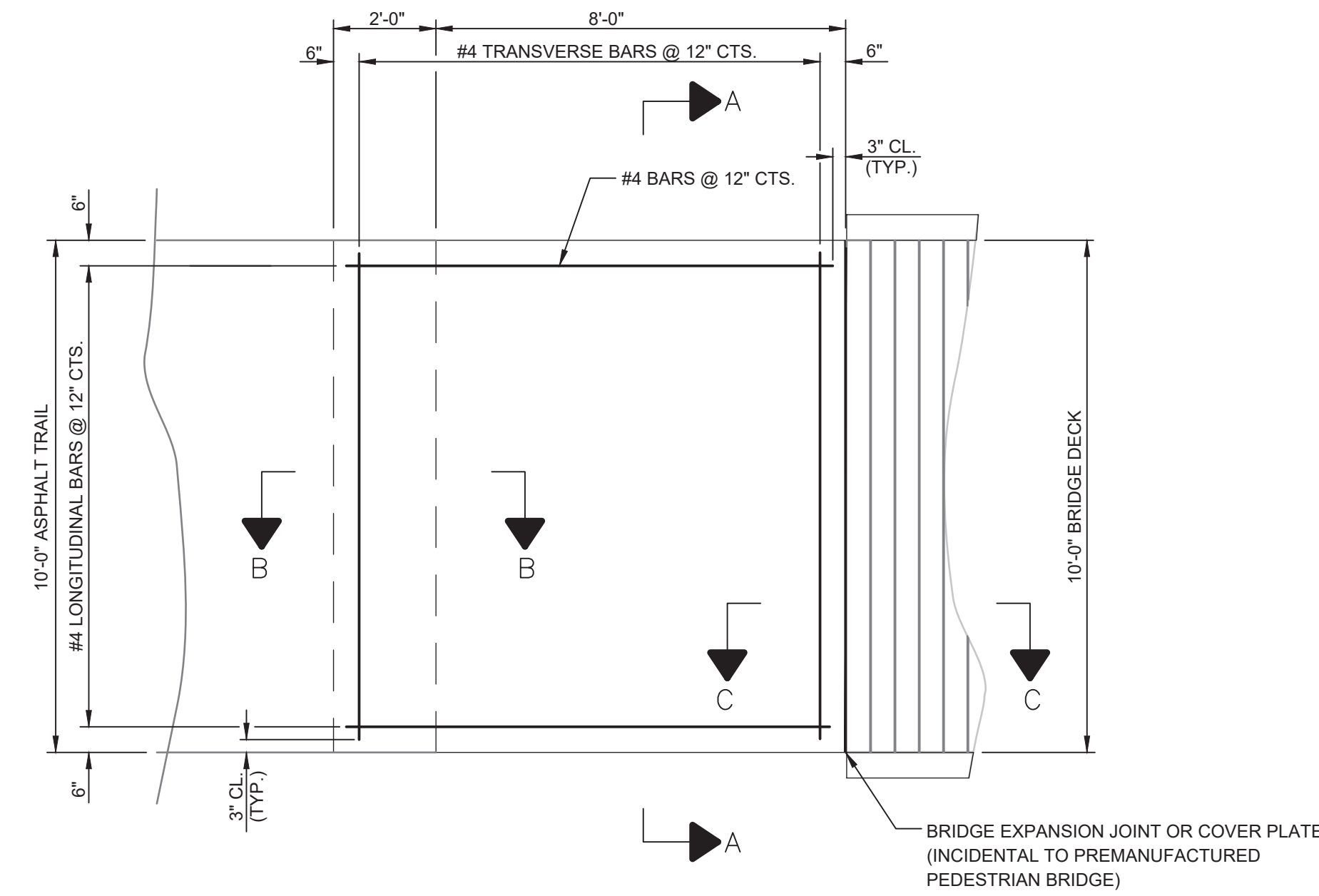
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
BRIDGE S2 END BENT 2

PLAN INFORMATION
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SCALE NOTED
DATE 06-14-2023

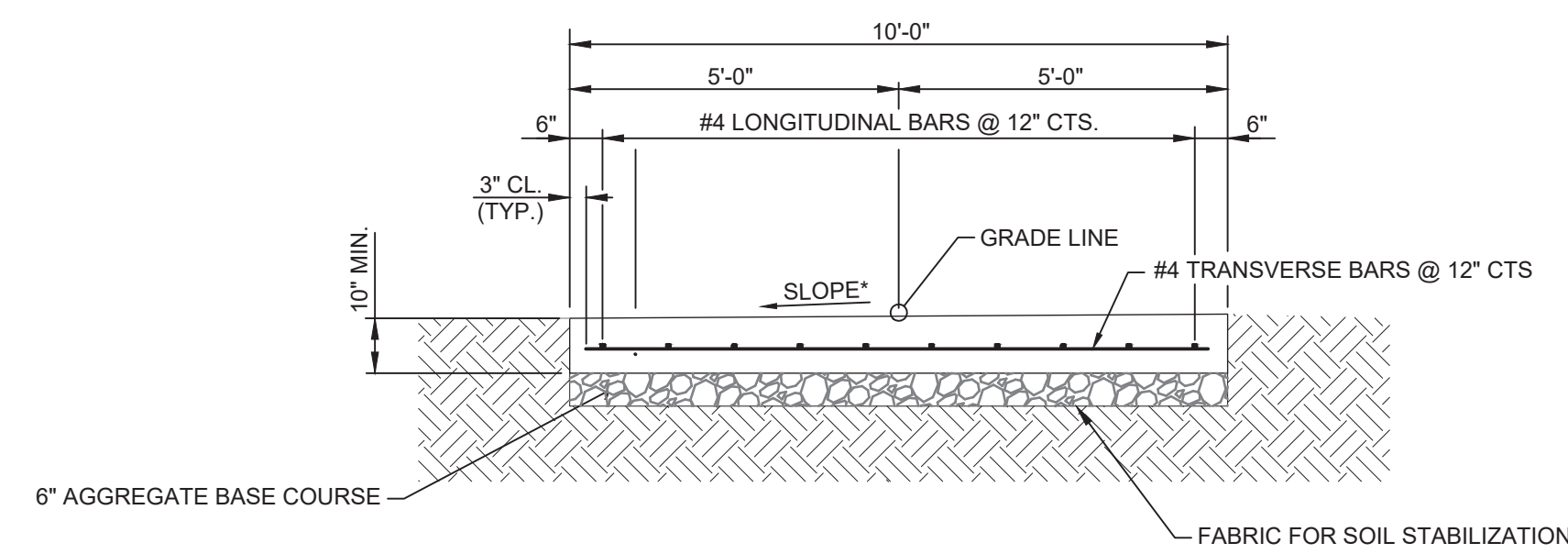
S-8

NOTES

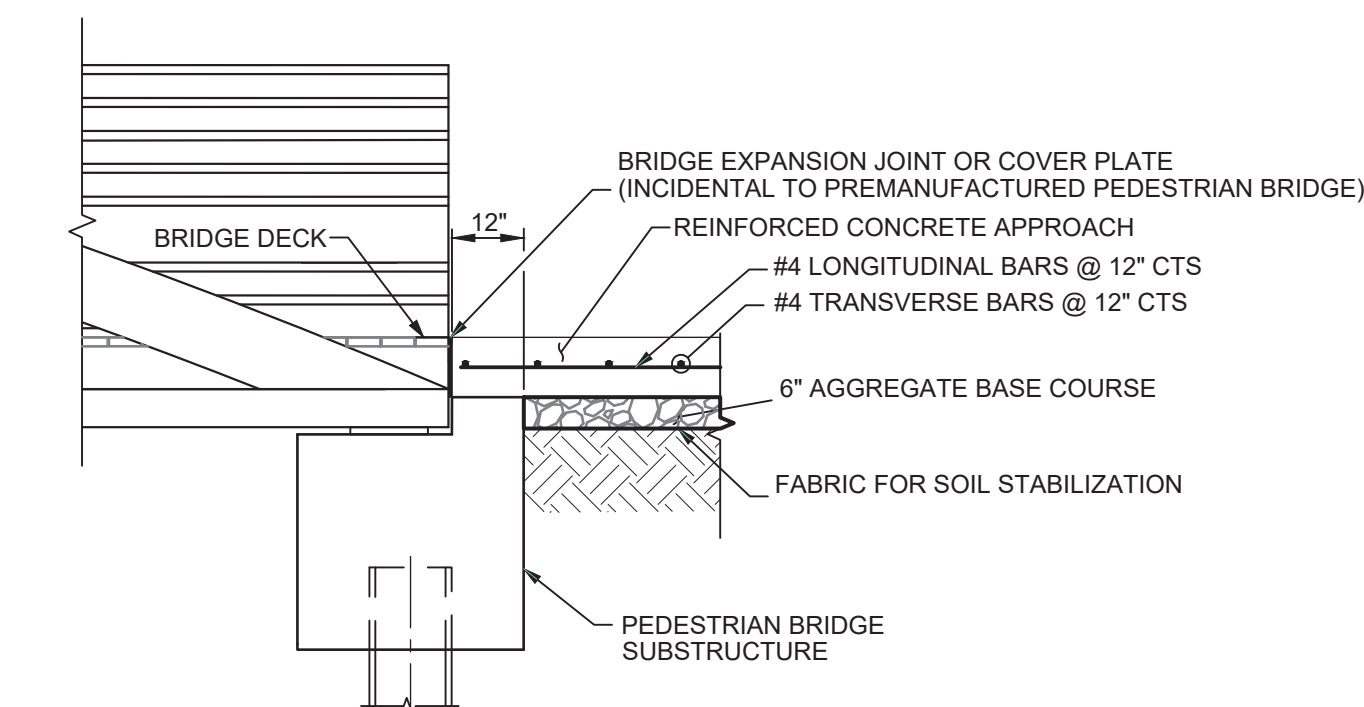
1. CONCRETE APPROACH SLAB REQUIRED AT BEGIN AND END OF STRUCTURES S1 AND S2.
2. SEE SPECIAL PROVISION FOR BRIDGE APPROACH SLAB.
3. CROSS SLOPE OF CONCRETE APPROACH SLAB SHALL TRANSITION FROM ASPHALT TRAIL TO MATCH CROSS SLOPE OF PEDESTRIAN BRIDGE AND BOARDWALK. DIRECTION OF CROSS SLOPE SHALL BE AS INDICATED ON TRAIL PLANS.



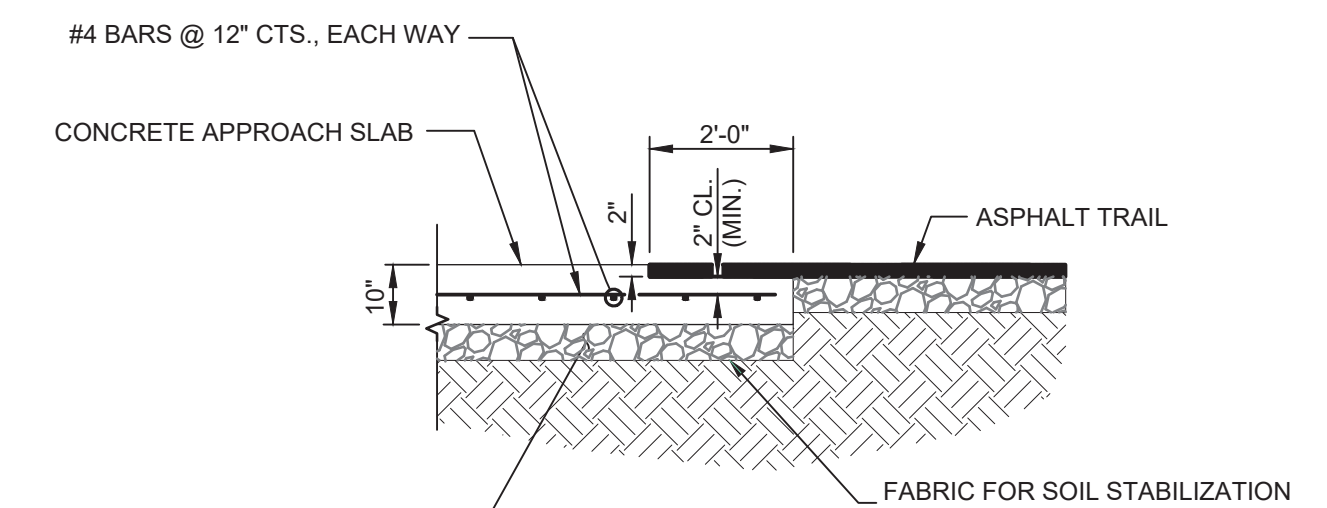
BRIDGE APPROACH PLAN VIEW
(BEGIN APPROACH SHOWN, END APPROACH SIMILAR BUT MIRRORED)



SECTION A-A
TYPICAL SECTION
*SEE NOTE 3



SECTION C-C
APPROACH SLAB/PEDESTRIAN BRIDGE CONNECTION



SECTION B-B
APPROACH SLAB TO TRAIL CONNECTION

APPROACH SLAB DETAILS

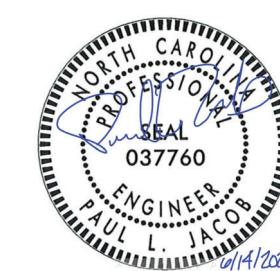
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NO. DATE

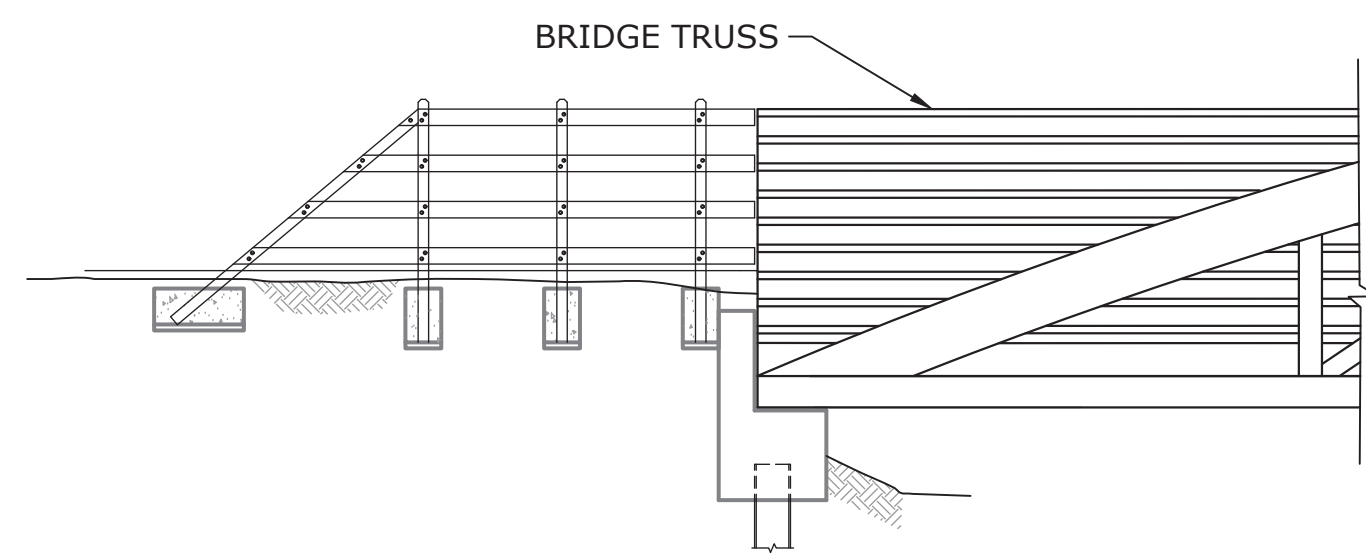
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919-781-4626
NC LICENSE NO: F-0105



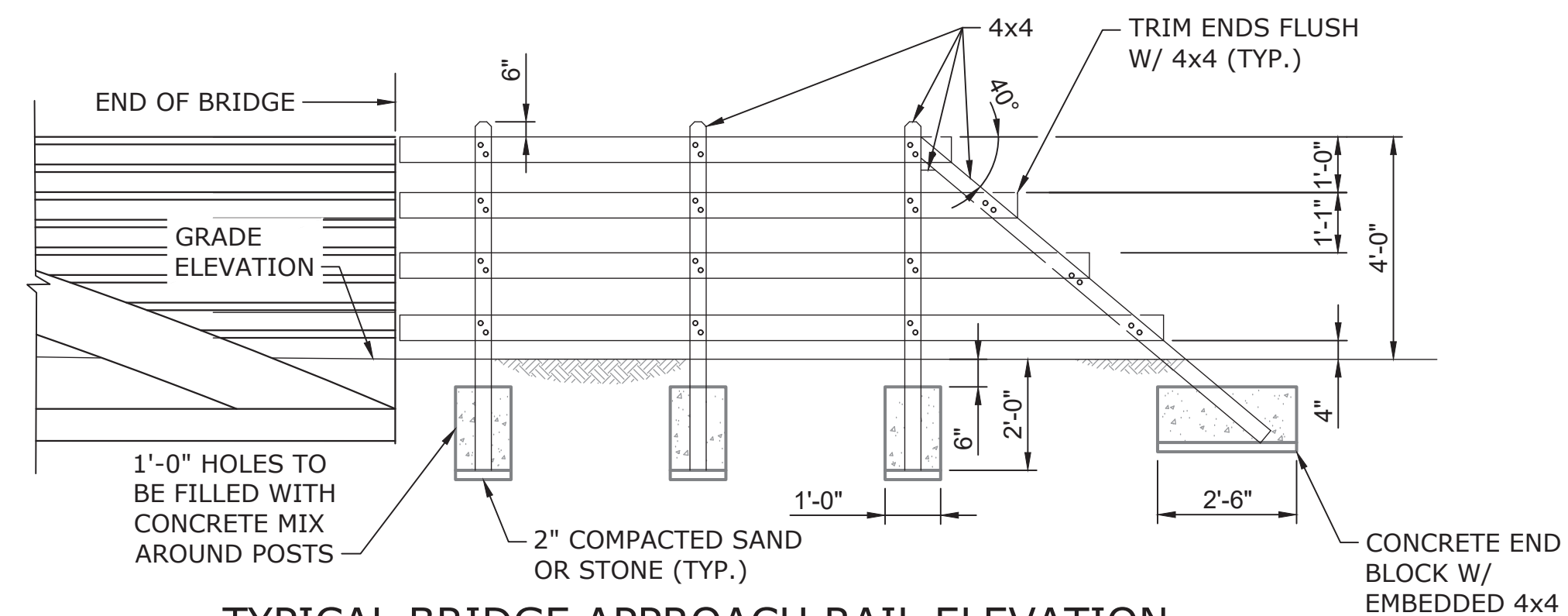
DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
APPROACH SLABS

PLAN INFORMATION
PROJECT NO. 221977
FILENAME Approach Slabs.dwg
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DRAWN BY J. LOFTUS
SCALE NOTED
DATE 06-14-2023

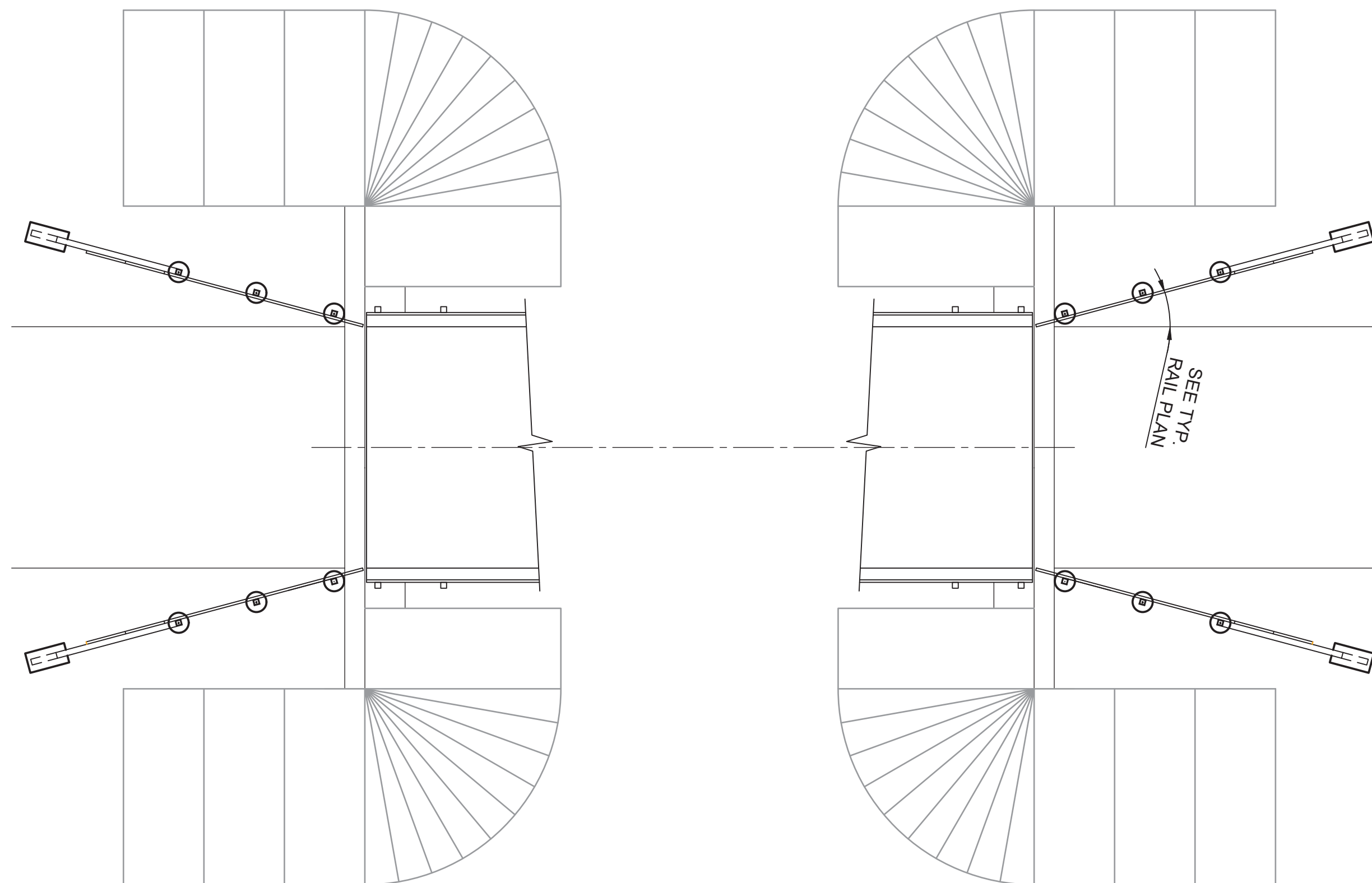
S-10



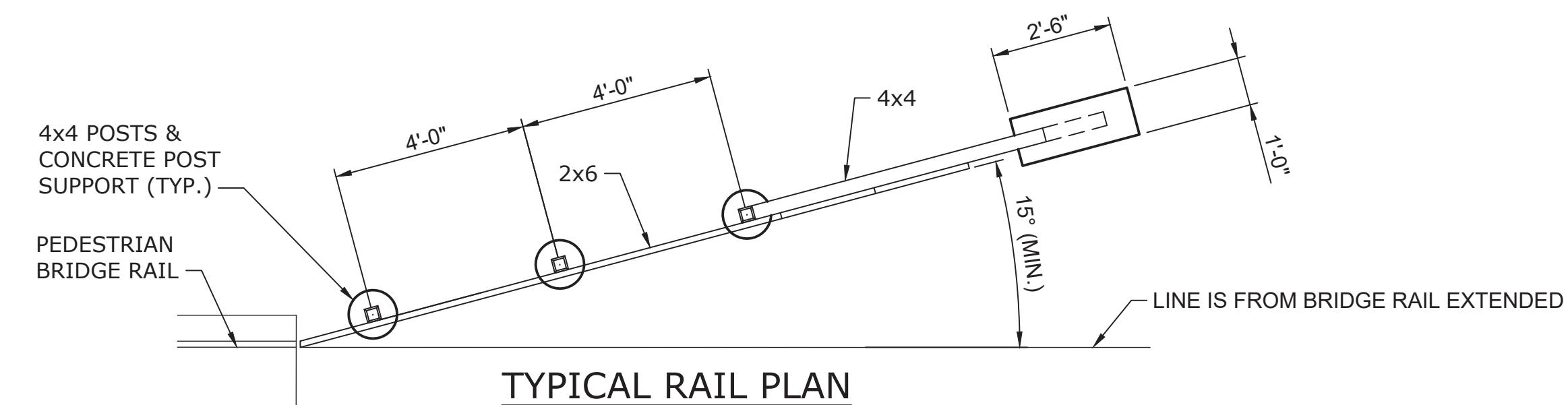
BRIDGE APPROACH RAIL ELEVATION
SHOWING BACK FACE OF RAILING



TYPICAL BRIDGE APPROACH RAIL ELEVATION



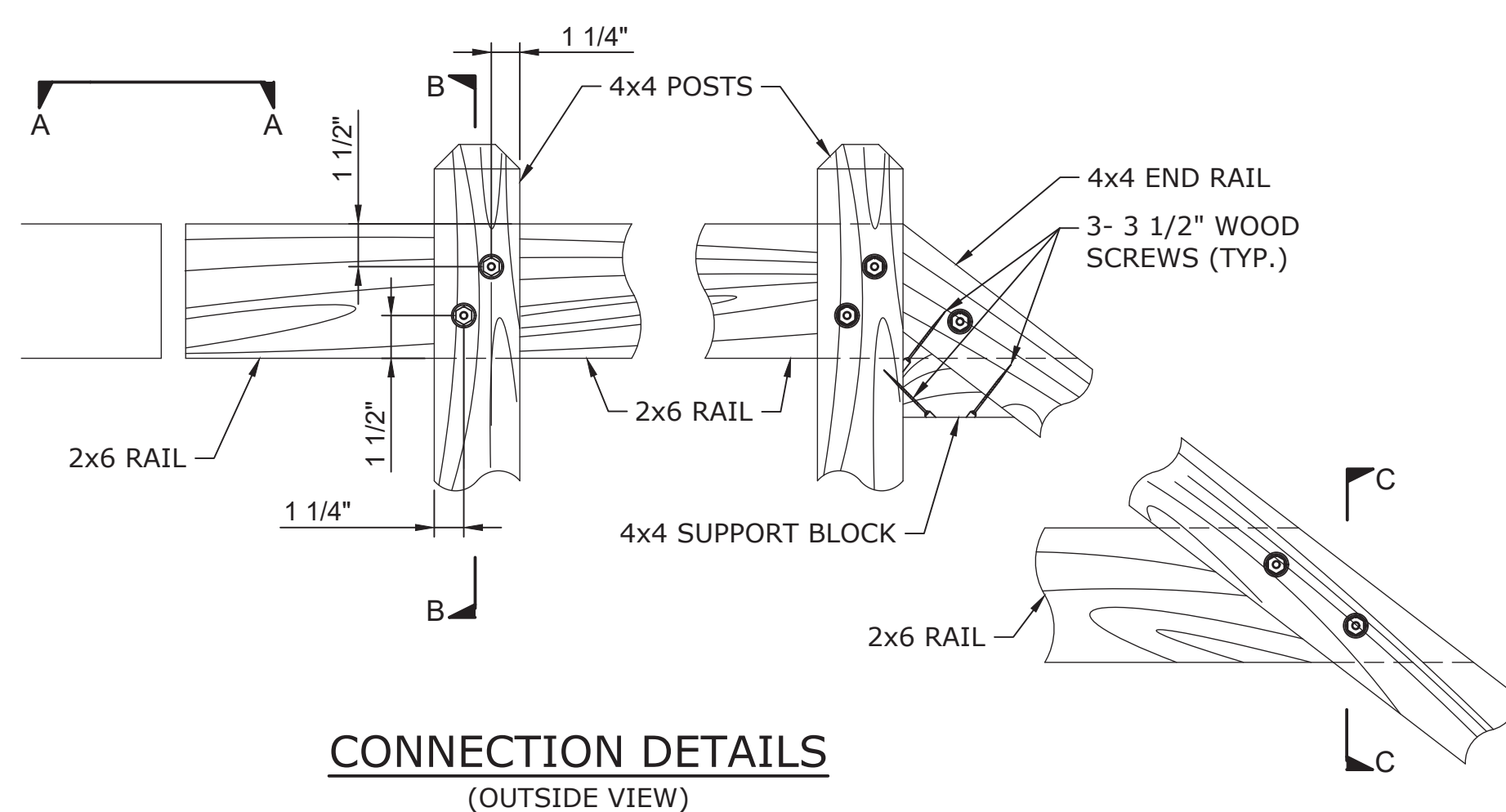
PLAN



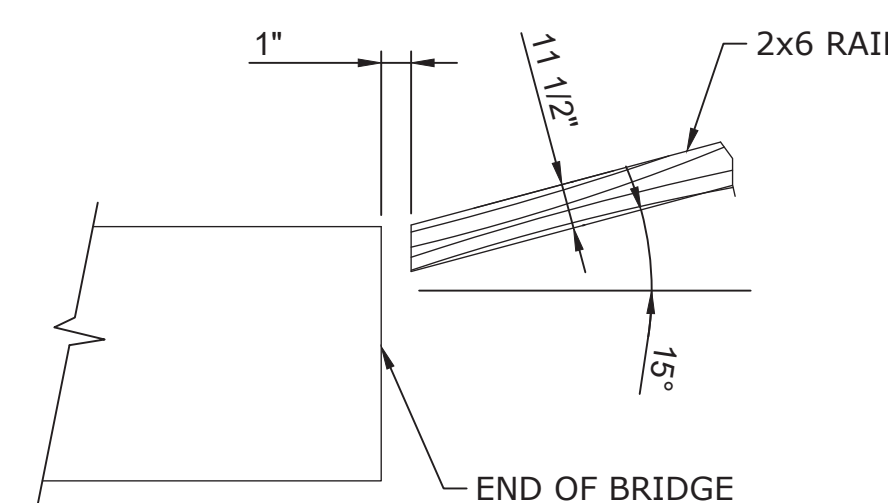
TYPICAL RAIL PLAN

NOTES:

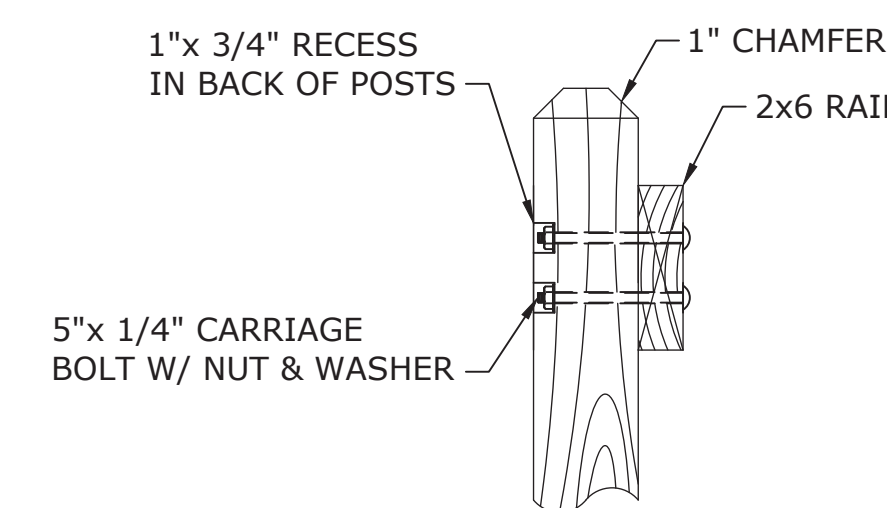
1. ALL TREATED LUMBER FOR THE GUARDRAIL & POSTS SHALL MEET THE REQUIREMENTS OF SECTION 1082 OF THE NCDOT STANDARD SPECIFICATIONS.
2. ALL SCREWS, BOLTS, NUTS AND WASHERS ARE TO BE HOT DIPPED GALVANIZED.
3. THE LOCATION OF POST FOOTINGS AND END BLOCKS ARE TO BE FIELD VERIFIED. DEVIATIONS FROM PLAN DIMENSIONS ARE TO BE APPROVED BY THE ENGINEER.
4. SEE SPECIAL PROVISION FOR APPROACH RAIL. THE TOTAL QUANTITY IN THE BID ITEM SHALL INCLUDE EACH QUADRANT OF BRIDGE THAT REQUIRES APPROACH RAIL. SEE PLAN SHEETS FOR APPROACH RAIL LOCATIONS AT BRIDGES.
5. END OF APPROACH RAIL SHALL BE AT LEAST 2'-0" FROM EDGE OF TRAIL WITH A MINIMUM ANGLE OF 15 DEGREES.



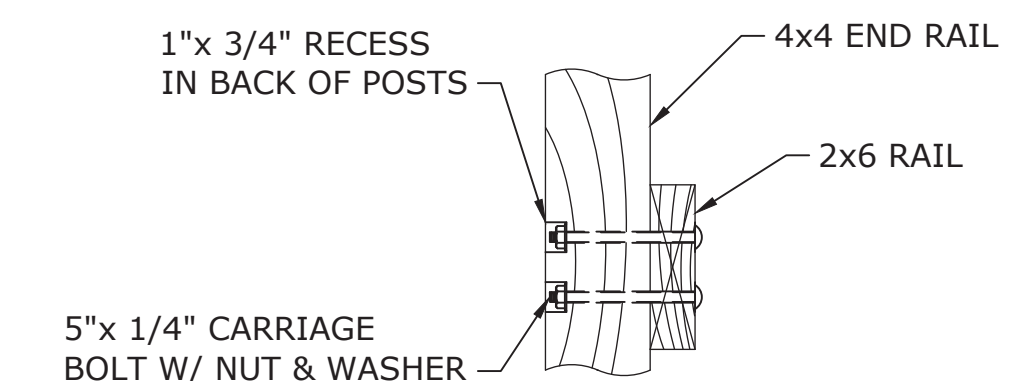
CONNECTION DETAILS
(OUTSIDE VIEW)



SECTION A-A



SECTION B-B



SECTION C-C

BRIDGE APPROACH RAIL DETAILS

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DORTON PARK
PEDESTRIAN BRIDGE REPLACEMENTS
APPROACH RAILS

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