



### PROPERTY DESCRIPTION

Being a tract or parcel of land lying and being in Land Lots 201 & 202, 18th District, DeKalb County, Georgia and being more particularly described as follows:

Beginning for the same at a 1/2 inch capped rebar set at the intersection of the Northeastly Right of Way Line of Briarwood Road (having an apparent variable width right of way) and the Southeastly Right of Way Line of Briarwood Way (having an apparent 60 feet wide right of way); thence, leaving the said Point of Beginning and running with the said line of Briarwood Way

1. North 54° 07' 37" East, 229.92 feet; thence,
2. 345.33 feet along the arc of a curve deflecting to the left, having a radius of 408.02 feet and a chord bearing and distance of North 29° 52' 50" East, 335.11 feet; thence,
3. North 05° 38' 03" East, 411.22 feet; thence,
4. 142.11 feet along the arc of a curve deflecting to the right, having a radius of 246.00 feet and a chord bearing and distance of North 22° 11' 01" East, 140.14 feet to a 1/2 inch capped rebar set; thence, leaving the aforesaid line of Briarwood Way and running with the lines of a subdivision entitled, "Unit 4 of Drew Valley" as recorded among the Land Records of DeKalb County, Georgia in Plat Book 22, Page 89
5. South 04° 40' 55" East, 73.10 feet to a 1/2 inch capped rebar set; thence,
6. South 80° 20' 55" East, 72.79 feet to a 1 inch cramped top pipe found; thence,
7. South 80° 20' 55" East, 229.91 feet to a 1/2 inch rebar found; thence,
8. South 71° 25' 58" East, 223.92 feet to a 1 inch cramped top pipe found; thence,
9. South 71° 28' 18" East, 69.85 feet to a 1 inch cramped top pipe found; thence,
10. South 71° 22' 33" East, 20.49 feet to a 1/2 inch capped rebar set; thence, leaving the lines of the aforesaid subdivision and running with the property now or formerly owned by Terraces at Brookhaven, LLC as described in a deed recorded among the aforesaid Land Records in Deed Book 24751, Page 667
11. South 05° 37' 24" West, 68.23 feet; thence,
12. South 18° 10' 35" West, 41.40 feet; thence,
13. South 34° 49' 48" West, 41.39 feet; thence,
14. South 51° 31' 21" West, 123.82 feet; thence,
15. South 44° 49' 30" West, 153.40 feet; thence,
16. South 39° 05' 04" West, 60.44 feet to a 1/2 inch rebar found; thence,
17. South 08° 10' 23" West, 96.89 feet; thence,
18. South 05° 22' 06" East, 53.22 feet to a 1/2 inch rebar found; thence,
19. South 04° 45' 42" East, 123.38 feet to a 1/2 inch rebar found; thence,
20. South 18° 27' 35" East, 165.55 feet to a 1/2 inch rebar found (disturbed); thence,
21. South 23° 56' 40" East, 131.42 feet to a 1/2 inch capped rebar set at the northeast corner of a subdivision entitled "Briarwood Field" as recorded among the aforesaid Land Records in Plat Book 136, Page 95-97; thence, running with the said lines of the Briarwood Field subdivision
22. South 89° 02' 27" West, 315.25 feet to a 1/2 inch capped rebar set; thence,
23. South 66° 36' 51" West, 139.92 feet to a 1/2 inch capped rebar set; thence,
24. 87.94 feet along the arc of a curve deflecting to the right, having a radius of 310.00 feet and a chord bearing and distance of South 38° 37' 38" West, 87.64 feet; thence,
25. South 47° 45' 17" West, 18.30 feet to a 1/2 inch capped rebar set; thence,
26. 31.41 feet along the arc of a curve deflecting to the left, having a radius of 20.00 feet and a chord bearing and distance of South 02° 45' 17" West, 28.28 feet to a 1/2 inch capped rebar set on the aforesaid line of Briarwood Road; thence, running with the said line of Briarwood Road
27. North 42° 14' 43" West, 99.93 feet; thence,
28. North 40° 04' 32" West, 143.25 feet; thence,
29. North 42° 31' 57" West, 126.03 feet; thence,
30. 147.85 feet along the arc of a curve deflecting to the left, having a radius of 917.57 feet and a chord bearing and distance of North 47° 40' 08" West, 147.69 feet to the Point of Beginning, containing 652,490 square feet or 14.9791 acres of land, more or less.

Property is subject to all easements and rights of way recorded and unrecorded.

### SITE INFORMATION

CURRENT OWNER: CITY OF BROOKHAVEN  
 DB. 24526 PG. 545

TAX PARCEL ID # 18 202 01 047

ADDRESS: 2335 BRIARWOOD WAY

ZONING: R75 (SINGLE FAMILY RESIDENTIAL DISTRICT)  
 JURISDICTION: CITY OF BROOKHAVEN

SETBACKS: FRONT 45' FROM MAJOR THOROUGHFARES  
 35' FROM MINOR THOROUGHFARES  
 30' FROM COLLECTOR STREETS  
 30' FROM OTHER STREETS

SIDE 7.5'  
 REAR 40'

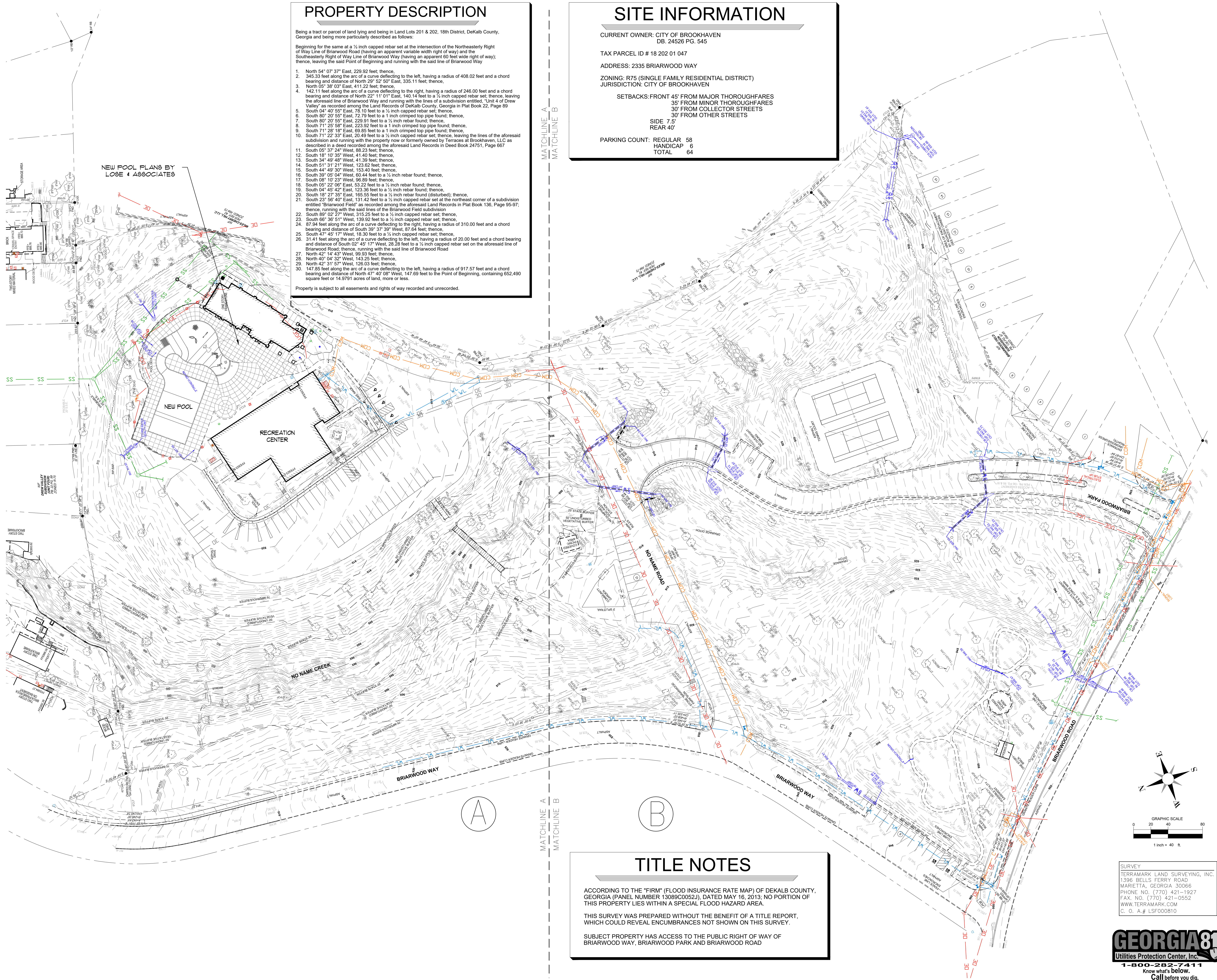
PARKING COUNT: REGULAR 58  
 HANDICAP 6  
 TOTAL 64

### TITLE NOTES

ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBER 13089C0052J), DATED MAY 16, 2013; NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH COULD REVEAL ENCUMBRANCES NOT SHOWN ON THIS SURVEY.

SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF BRIARWOOD WAY, BRIARWOOD PARK AND BRIARWOOD ROAD

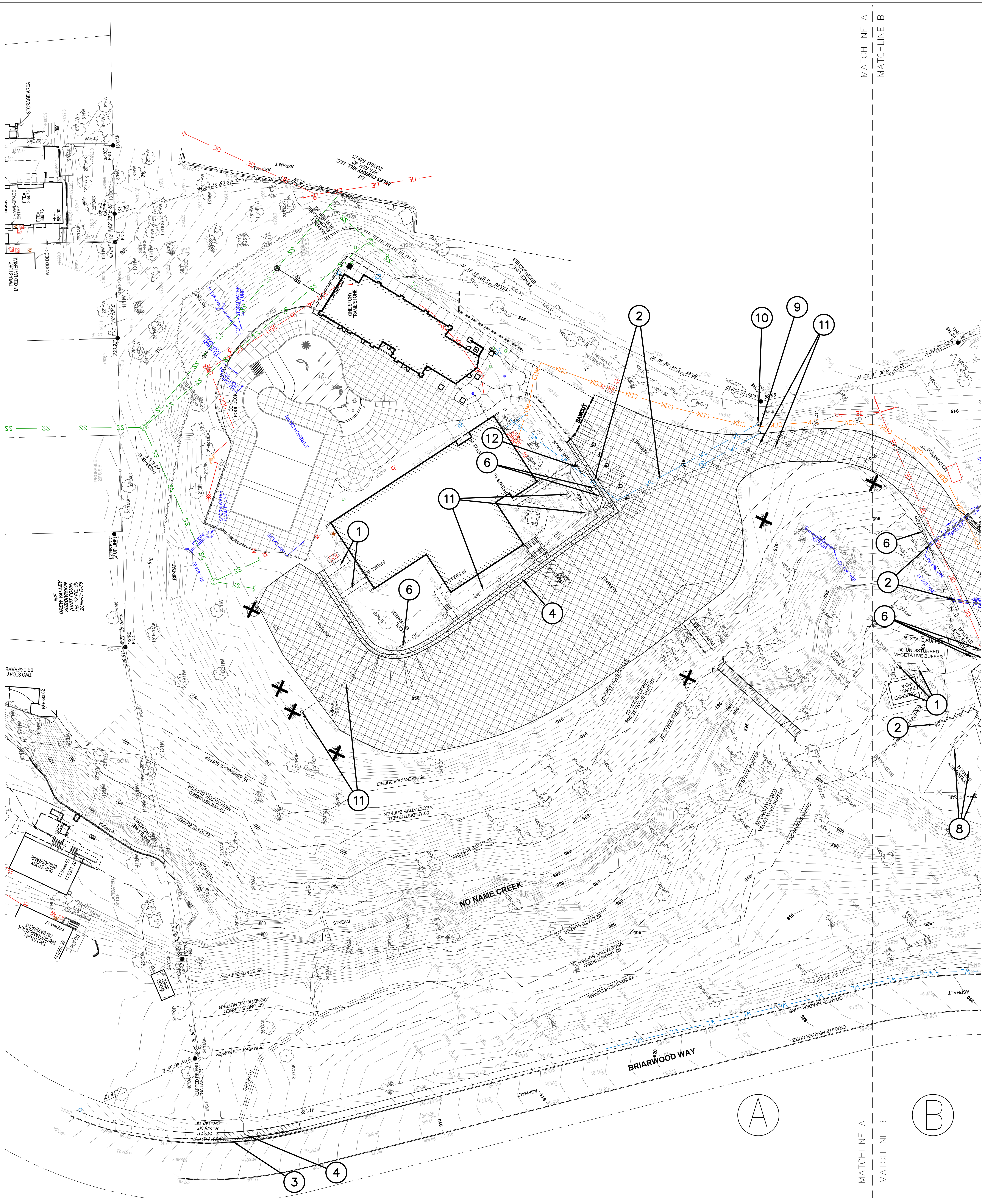
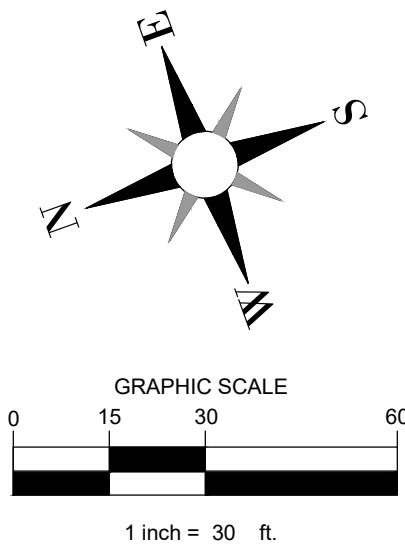
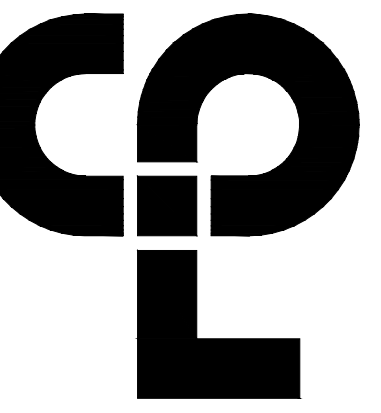


SURVEY  
 TERRAMARK LAND SURVEYING, INC.  
 1396 BELLS FERRY ROAD  
 MARIETTA, GEORGIA 30066  
 PHONE NO. (770) 421-1927  
 FAX NO. (770) 421-0552  
 WWW.TERRAMARK.COM  
 C. O. A.# LSF000810



**SHEET INFORMATION**

Scale: 1" = 40'  
 Date: 12/01/2022  
 Drawn By: MHS  
 Checked By: LAG  
 Existing Conditions



**LEGEND 'A'**

- REMOVE TREE AND ROOT BALL (6 EACH)
- REMOVE UNDERGROUND UTILITY
- SAWCUT LINE (38 LF)
- LIMITS OF REMOVAL OF ASPHALT PAVEMENT (39,380 SF)
- LIMITS OF REMOVAL OF CONCRETE SIDEWALK/PAVEMENT (SEE ITEM #4 BELOW)
- LIMITS OF REMOVAL OF CONCRETE CURB AND GUTTER (SEE ITEM #3 BELOW)

- 1 PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION OR AS SHOWN ON THIS PLAN INCLUDING, BUT NOT LIMITED TO EXISTING SIDEWALKS, BUILDINGS, UNDERGROUND UTILITIES, ABOVE GROUND UTILITIES, CURB AND GUTTER. ANY DAMAGE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE. (1 JOB)
- 2 REMOVE EXISTING IRRIGATION CONTROLLER VALVE AND BOX.. (1 JOB)
- 3 SAWCUT, DEMOLISH AND REMOVE CURB AND GUTTER (60 LF)
- 4 DEMOLISH AND REMOVE CONCRETE SIDEWALK (400 LF X 5' = 2000 SF)
- 5 DEMOLISH AND REMOVE STORM PIPE AND STORM STRUCTURE- SEE SHEET C201 (#4).
- 6 REMOVE SIGN AND SIGN POST. (3 EACH)
- 7 DEMOLISH AND REMOVE EXISTING MONUMENT SIGN- OMITTED.
- 8 DEMOLISH AND REMOVE EXISTING FENCING, ARBORS AND RAISED PLANTING BEDS- SEE SHEET C201 (#4).
- 9 CUT AND REMOVE WATER LINE TO LIMITS SHOWN. SEE UTILITY PLAN FOR ADDITIONAL INFORMATION. (1 JOB)
- 10 REMOVE EXISTING FIRE HYDRANT AND RELOCATE TO PROPOSED LOCATION. SEE UTILITY PLAN FOR ADDITIONAL INFORMATION. (1 JOB)
- 11 OVERHEAD ELECTRIC SERVICE TO BE REMOVED BY POWER COMPANY AND RELOCATED UNDERGROUND. OWNER RESPONSIBLE FOR ALL ASSOCIATED RELOCATION FEES. SEE SHEET AIT-01 (#52), THEN SHEET E100B (#55).
- 12 BIKE RACK TO REMAIN. (1 JOB)

**DEMOLITION NOTES:**

1. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES WITHOUT INTERFERING WITH VEHICLE AND PEDESTRIAN TRAFFIC IN ADJACENT AREAS.
2. CONTRACTOR SHALL PROTECT UTILITIES AND BENCHMARKS NOT SCHEDULED FOR DEMOLITION FROM DAMAGE. AT NO ADDITIONAL COST TO OWNER, THE CONTRACTOR SHALL REPLACE OR REPAIR ITEMS DAMAGED BEYOND THE LIMITS OF THE DEMOLITION SHOW.
3. REMOVE EXISTING ABOVE/BELOW GRADE CONSTRUCTION, AS INDICATED TO BE REMOVED, TO THE LIMIT INDICATED.
4. DISCONNECT AND SEAL OFF ABANDONED UTILITIES TO BE REMOVED PRIOR TO THE START OF ANY DEMOLITION ACTIVITIES. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE LEVEL, OR OUTSIDE OF CONTRACT LIMITS BY REPRESENTATIVES OF THE PUBLIC UTILITY BEING DISCONNECTED. MAINTAIN UTILITY SERVICE TO FACILITIES IN USE.
5. EXCEPT FOR ITEMS DESIGNATED TO BE REMOVED OR REUSED IN THE WORK, ALL MATERIALS RESULTING FROM THIS WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE PROMPTLY REMOVED FROM THE SITE. STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE PERMITTED ON PROJECT SITE.
6. REMOVE ALL DEBRIS, RUBBISH, AND WASTE MATERIALS FROM THE SITE. DO NOT STOCKPILE DEBRIS ON PROJECT SITE.
7. ALL MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY THE LOCAL MUNICIPALITY AND/OR STATE.
9. ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION UPON COMPLETION OF DEMOLITION PER THE EROSION AND CONTROL PLANS.
10. ALL TREES TO REMAIN SHALL HAVE PROPER PROTECTION UNLESS APPROVED PLANS INDICATES OTHERWISE.
11. BUMPSTERS AND/OR TEMPORARY SANITARY FACILITIES SHALL NOT BE LOCATED IN STREET OR TREE PROTECTION AREA, EASEMENTS, OR RIGHT-OF-WAY.
12. SAWCUT PAVEMENTS, CURBS, AND/OR WALLS WHOLE TO PROVIDE SMOOTH TRANSITION BETWEEN IMPROVEMENTS TO REMAIN & NEW IMPROVEMENTS.
13. SALVAGED ITEMS TO BE EVALUATED BY OWNER. IF REFUSED, CONTRACTOR SHALL DISPOSE OF ITEMS AT NO ADDITIONAL COST TO THE OWNER.

**EXISTING UTILITIES:**  
INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON IS BASED ON INFORMATION READILY AVAILABLE AT THE TIME OF PREPARATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE TAKEN INTO CONSIDERATION BY THOSE USING THIS DOCUMENT. THE LOCATION AND DISPOSITION OF UTILITIES SHOWN MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AFFECTED BY HIS WORK PRIOR TO BEGINNING ANY CONSTRUCTION OR LAND DISTURBANCE.

SURVEY  
TERRAMARK LAND SURVEYING, INC.  
1396 BELLS FERRY ROAD  
MARIETTA, GEORGIA 30066  
PHONE NO. (770) 421-1927  
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WWW.TERRAMARK.COM  
C. O. A.# LSF000810



**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK  
Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

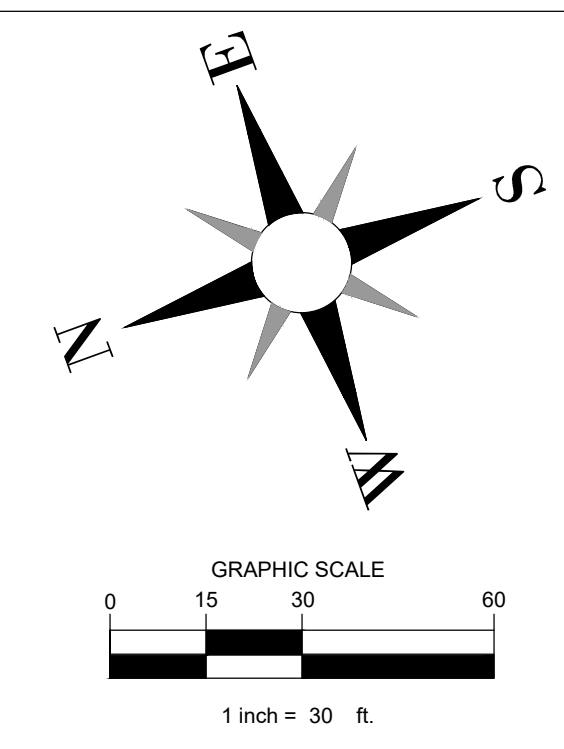
**REVISION SCHEDULE**

Rev.	Date	Description
1	01-14-2023	LDP CFI COMMENT #1
2	01-19-2023	BUILDING PERMIT
3	02-02-2023	LDP CFI COMMENT #2
4	02-27-2023	LDP CFI COMMENT #3



**SHEET INFORMATION**

Scale: 1" = 30'  
Date: 12/01/2022  
Created By: MJS  
Drawing Title: SITE DEMOLITION PLAN# AREA A



**LEGEND**

- REMOVE TREE AND ROOT BALL (12 EACH)
- REMOVE UNDERGROUND UTILITY
- SAWCUT LINE (34 LF)
- LIMITS OF REMOVAL OF ASPHALT PAVEMENT (17,600 SF)
- LIMITS OF REMOVAL OF CONCRETE SIDEWALK/PAVEMENT (SEE ITEM #4 BELOW)
- LIMITS OF REMOVAL OF CONCRETE CURB AND GUTTER (SEE ITEM #3 BELOW)

- 1 PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION OR AS SHOWN ON THIS PLAN INCLUDING, BUT NOT LIMITED TO EXISTING SIDEWALKS, BUILDINGS, UNDERGROUND UTILITIES, ABOVE GROUND UTILITIES, CURB AND GUTTER. ANY DAMAGE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE. (1 JOB)
- 2 REMOVE EXISTING IRRIGATION CONTROLLER VALVE AND BOX.. (1 JOB)
- 3 SAWCUT, DEMOLISH AND REMOVE CURB AND GUTTER (575 LF)
- 4 DEMOLISH AND REMOVE CONCRETE SIDEWALK (135 LF X 5' = 575 SF)
- 5 DEMOLISH AND REMOVE STORM PIPE AND STORM STRUCTURE. (25 LF OF PIPE & (2) STORM HEADWALLS)
- 6 REMOVE SIGN AND SIGN POST. (7 EACH)
- 7 DEMOLISH AND REMOVE EXISTING MONUMENT SIGN. OMITTED.
- 8 DEMOLISH AND REMOVE EXISTING FENCING, ARBORS AND RAISED PLANTING BEDS. (1300 SF - 1 JOB)
- 9 DEMOLISH AND REMOVE EXISTING STONE HEADWALL. (1 JOB)
- 10 REMOVE EXISTING 1" PVC WATER LINE FROM TERMINATION UP TO CONNECTION POINT TO 2" SERVICE LINE (280 LF)
- 11 REMOVE AND RELOCATE EXISTING CONCRETE UTILITY VAULT, WORK PERFORMED BY UTILITY COMPANY, PAID BY CITY OF BROOKHAVEN.

**DEMOLITION NOTES:**

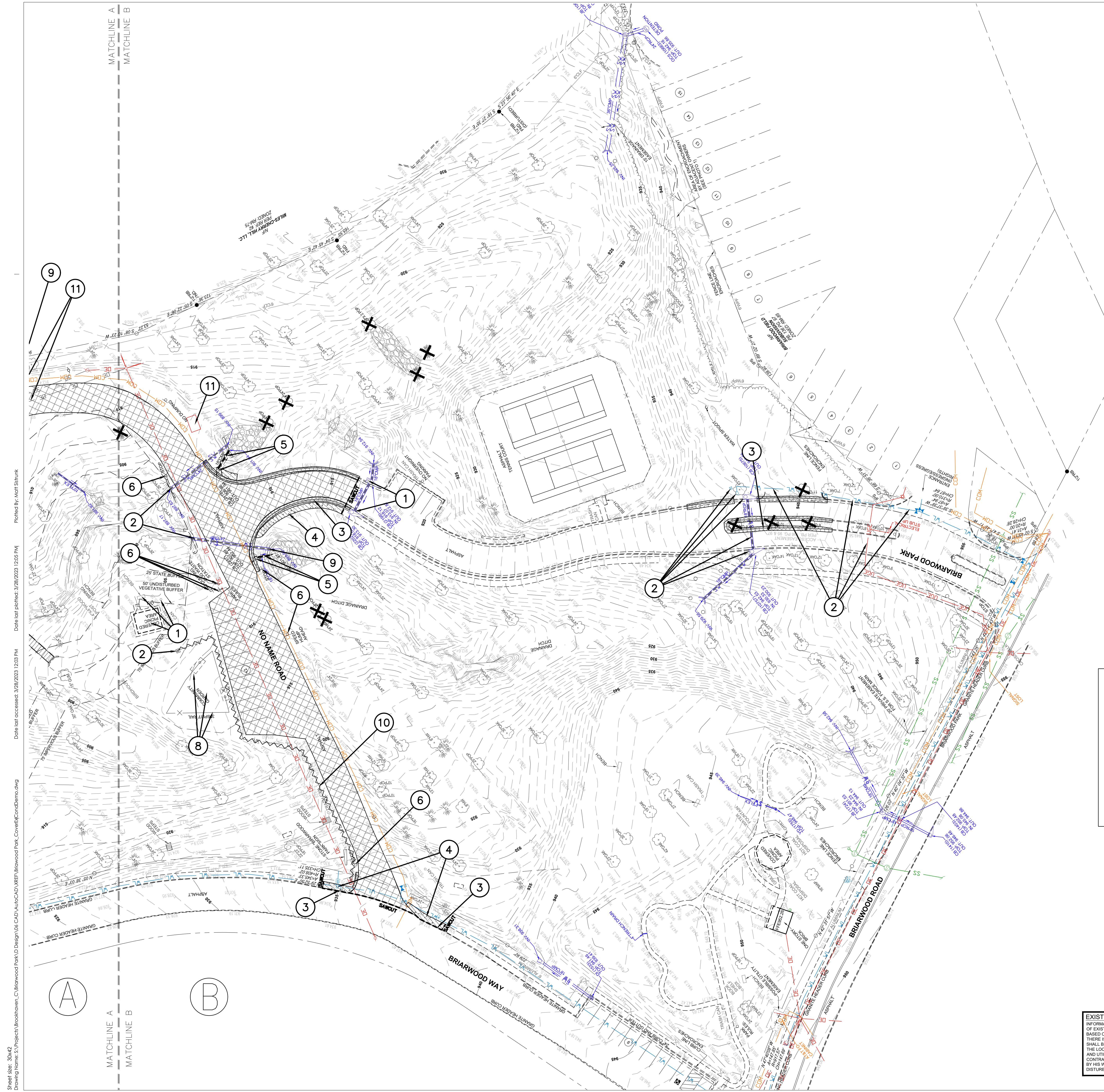
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3. REMOVE EXISTING ABOVE-BELOW GRADE CONSTRUCTION, AS INDICATED TO BE REMOVED, TO THE LIMIT INDICATED BY REPRESENTATIVES OF THE PUBLIC UTILITY BEING DISCONNECTED. MAINTAIN UTILITY SERVICE TO FACILITIES IN USE.
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6. ALL MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER.
7. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY THE LOCAL MUNICIPALITY AND/OR STATE.
8. ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION UPON COMPLETION OF DEMOLITION PER THE EROSION AND CONTROL PLANS.
9. ALL TREES TO REMAIN SHALL HAVE PROPER PROTECTION UNLESS APPROVED PLANS INDICATES OTHERWISE.
10. DUMPSTERS AND/OR TEMPORARY SANITARY FACILITIES SHALL NOT BE LOCATED IN STREET OR TREE PROTECTION AREA, EASEMENTS, OR RIGHT-OF-WAY.
11. SAWCUT PAVEMENTS, CURBS, AND/OR WALLS WHOLE TO PROVIDE SMOOTH TRANSITION BETWEEN IMPROVEMENTS TO REMAIN & NEW IMPROVEMENTS.
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 WWW.TERRAMARK.COM  
 C. O. A.# LSF000810



**SHEET INFORMATION**  
 Scale: 1" = 30'  
 Date: 12/01/2022  
 Created By: LAG  
 Drawing Title: SITE DEMOLITION PLAN AREA B

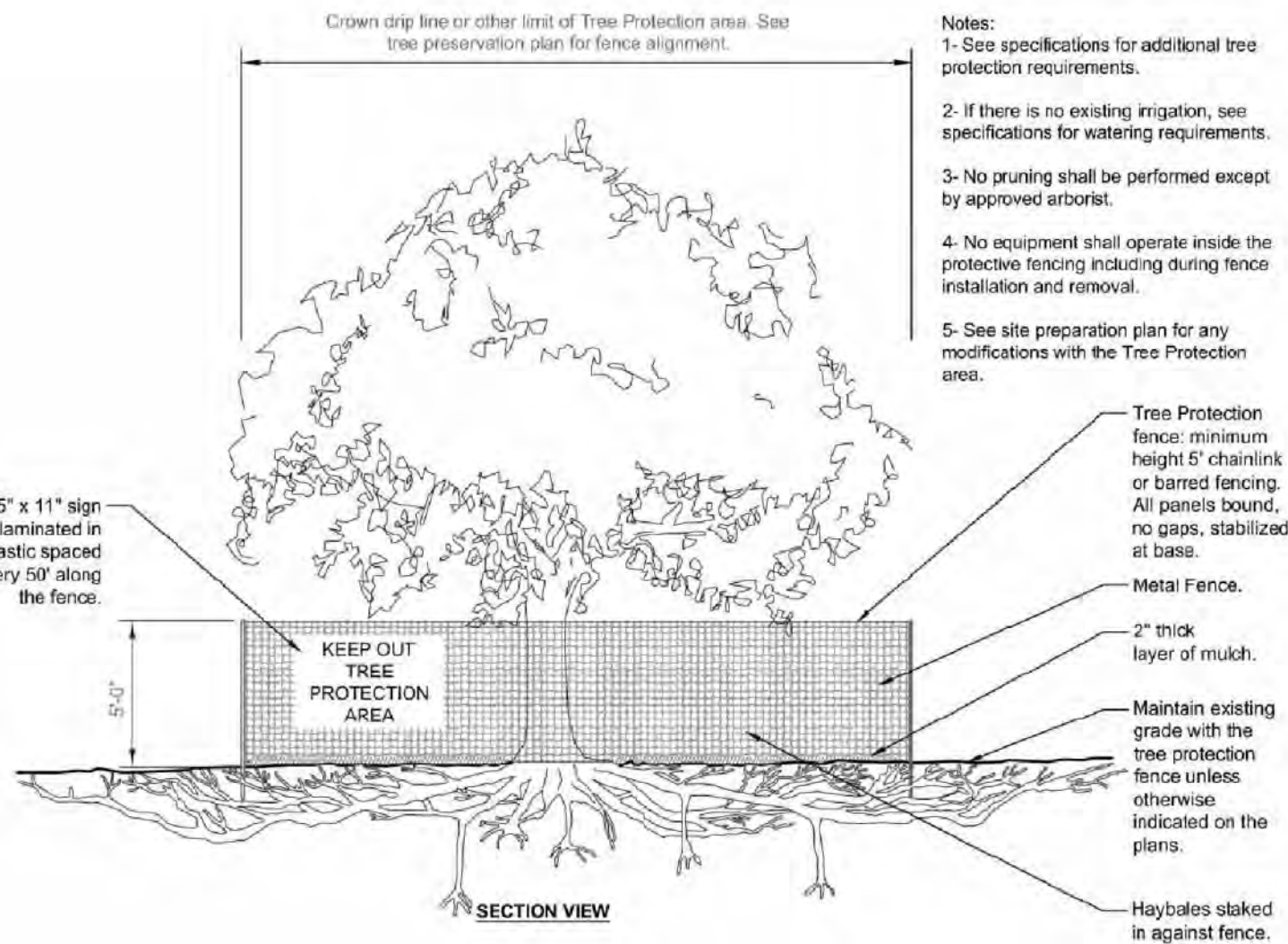


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 Date last plotted: 3/28/2023 12:05 PM  
 Plotted By: AGH1 S11111111

**TREE CARE PRESCRIPTION NOTES:**

1. Trees need prescription care have been identified on the plan. City Arborist will finalize all trees require tree care prescriptions.
2. City Arborist will coordinate all tree Rx for this project.
3. Details of tree care prescriptions (line item invoice) and proof of payment for all prescriptive services must be provided by GC before construction activities.

**Structural Root Plate (SRP) Note:**  
 The radius of SRP is equal to 0.5 feet per inch of DBH. The entire SRP must be protected. No construction activities are allowed inside SRP.



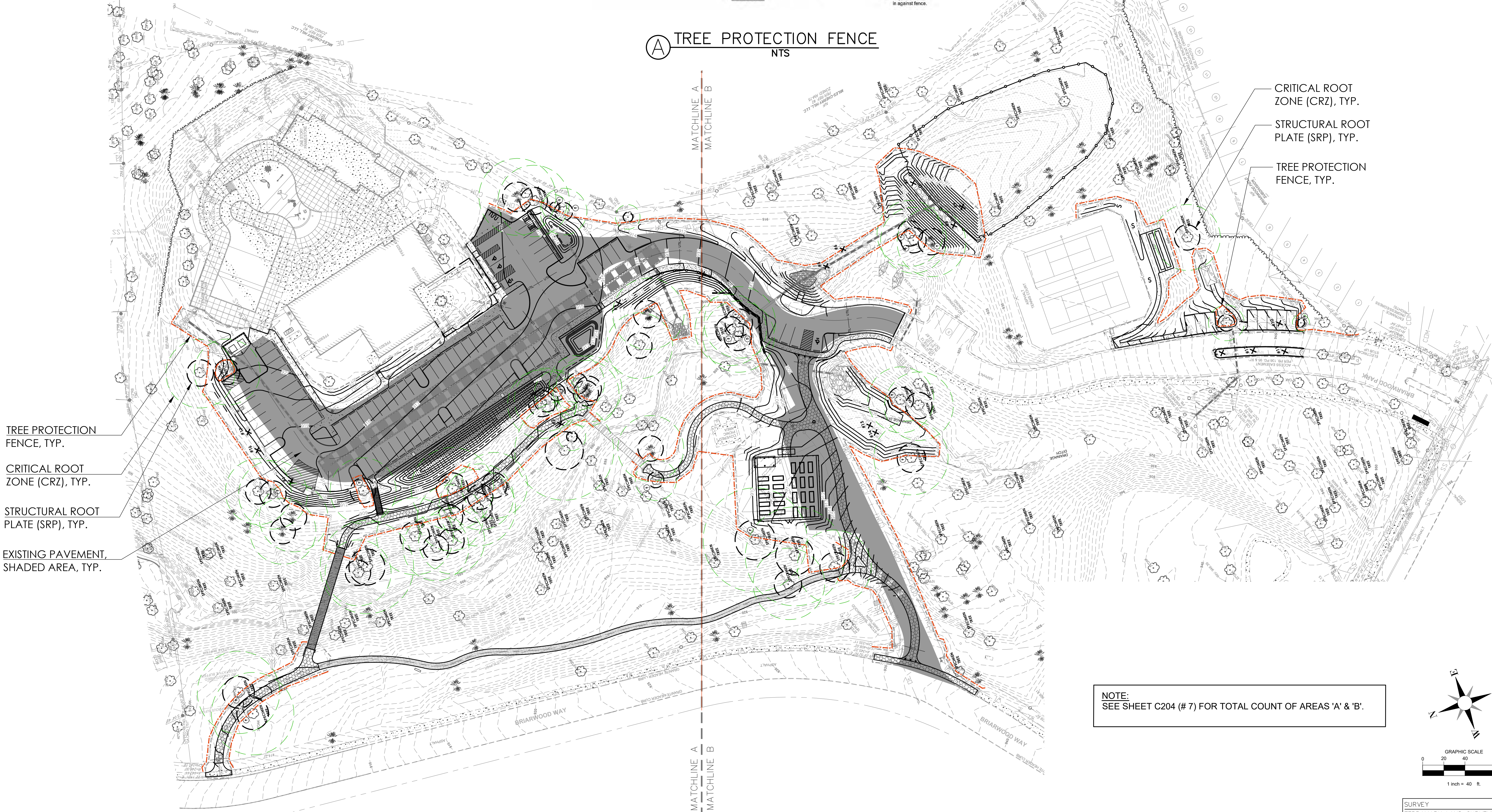
**Tree Protection Note:**  
 No machine trenching through Critical Root Zone. Hand-dig where silt fence (SD-1) crosses the Critical Root Zone of any tree. Root prune as needed according to ISA/ANSI professional standards.

**Special Tree Protection Note:**  
 All tree removal will be relay heavily on field adjustment to maximize numbers of trees preserved. Landscape architect, city arborist, and program manager will work as a team to make final decision on site.

**LEGEND**

- X REMOVED TREE: REMOVE TREE AND ROOT BALL
- P PRESCRIPTION TREE: TREES THAT HAVE THEIR ROOT ZONE DAMAGED BUT ARE DESIGNATED TO REMAIN. PROTECT THE TREE AND PROVIDE PRESCRIPTION TREATMENT. TREATMENT WILL BE PROVIDED BY THE CITY ARBORIST AND HIS TREE CARE CONSULTANT. CONTRACTOR ONLY NEEDS TO COORDINATE WITH CITY FOR THIS WORK. ACTUAL PRESCRIPTION WORK IS NOT PART OF THE GENERAL CONTRACTORS WORK.

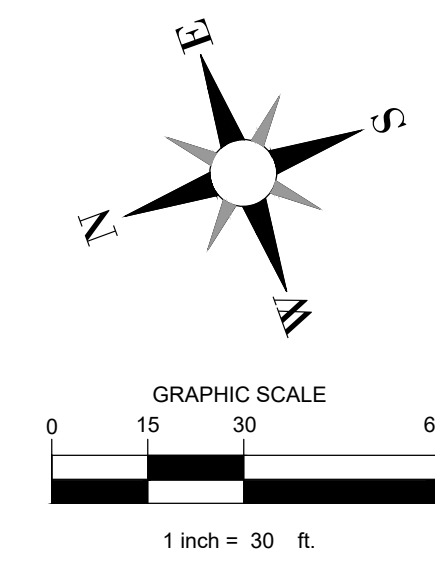
**(A) TREE PROTECTION FENCE NTS**



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 Date last plotted: 3/28/2023 11:11 AM  
 Plotted By: Catherine Newberry

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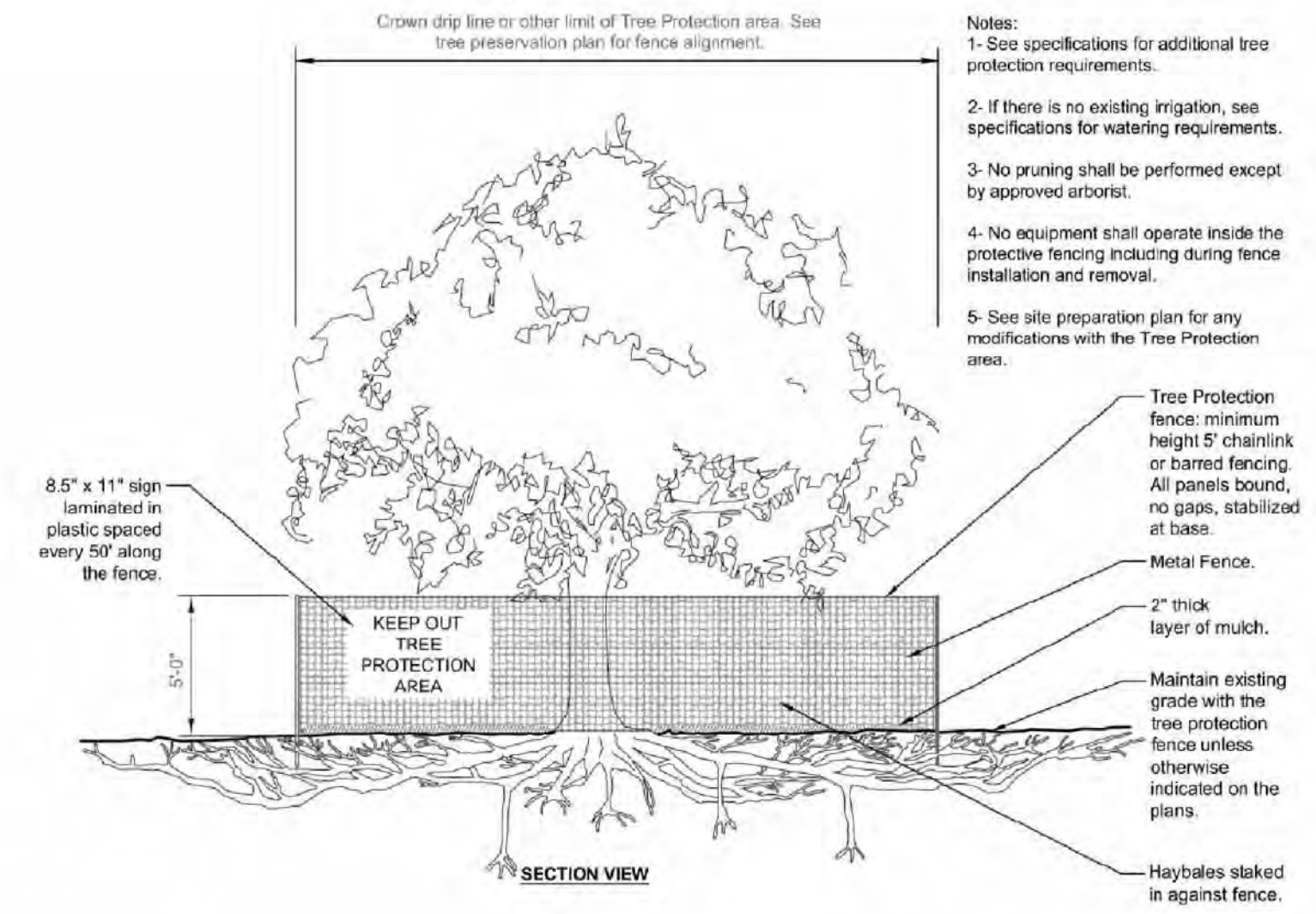




**TREE CARE PRESCRIPTION NOTES:**

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2. City Arborist will coordinate all tree Rx for this project.
3. Details of tree care prescriptions (line item invoice) and proof of payment for all prescriptive services must be provided by GC before construction activities.

**Structural Root Plate (SRP) Note:**  
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**A TREE PROTECTION FENCE  
 NTS**

**TOTAL TREE FENCE  
 AREA 'A' = 2,000 LF**

**Tree Protection Note:**  
 No machine trenching through Critical Root Zone. Hand-dig where silt fence (SD-1) crosses the Critical Root Zone of any tree. Root prune as needed according to ISA/ANSI professional standards.

**Special Tree Protection Note:**  
 All tree removal will be relay heavily on field adjustment to maximize numbers of trees preserved. Landscape architect, city arborist, and program manager will work as a team to make final decision on site.

**NOTE:**  
 SEE SHEET C204 (# 7) FOR TOTAL COUNT OF AREAS 'A' & 'B'.

**LEGEND**

- X REMOVE TREE AND ROOT BALL
- P TREES THAT HAVE THEIR ROOT ZONE DAMAGED BUT ARE DESIGNATED TO REMAIN. PROTECT THE TREE AND PROVIDE PRESCRIPTION TREATMENT. TREATMENT WILL BE PROVIDED BY THE CITY ARBORIST AND HIS TREE CARE CONSULTANT. CONTRACTOR ONLY NEEDS TO COORDINATE WITH CITY FOR THIS WORK. ACTUAL PRESCRIPTION WORK IS NOT PART OF THE GENERAL CONTRACTORS WORK.

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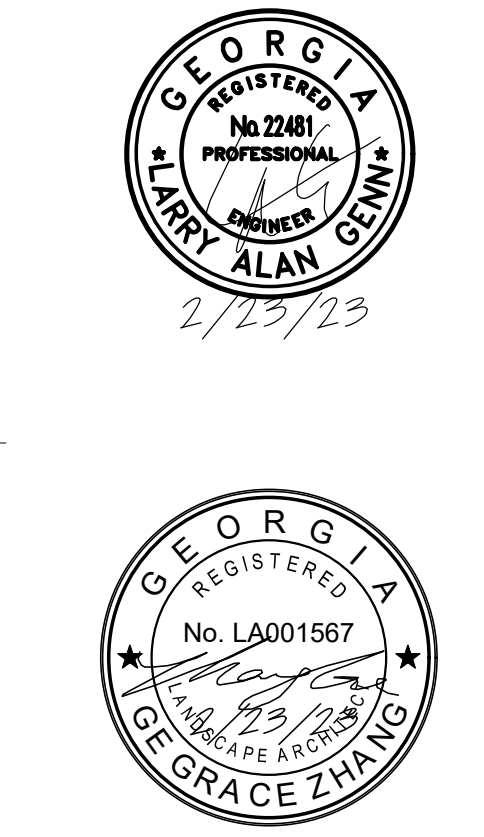
**GEORGIA811**  
 Utilities Protection Center, Inc.  
 1-800-282-7411  
 Know what's below.  
 Call before you dig.

**PROJECT INFORMATION**

Project Number: 15991.00  
 Client Name: CITY OF BROOKHAVEN  
 Project Name: BRIARWOOD PARK

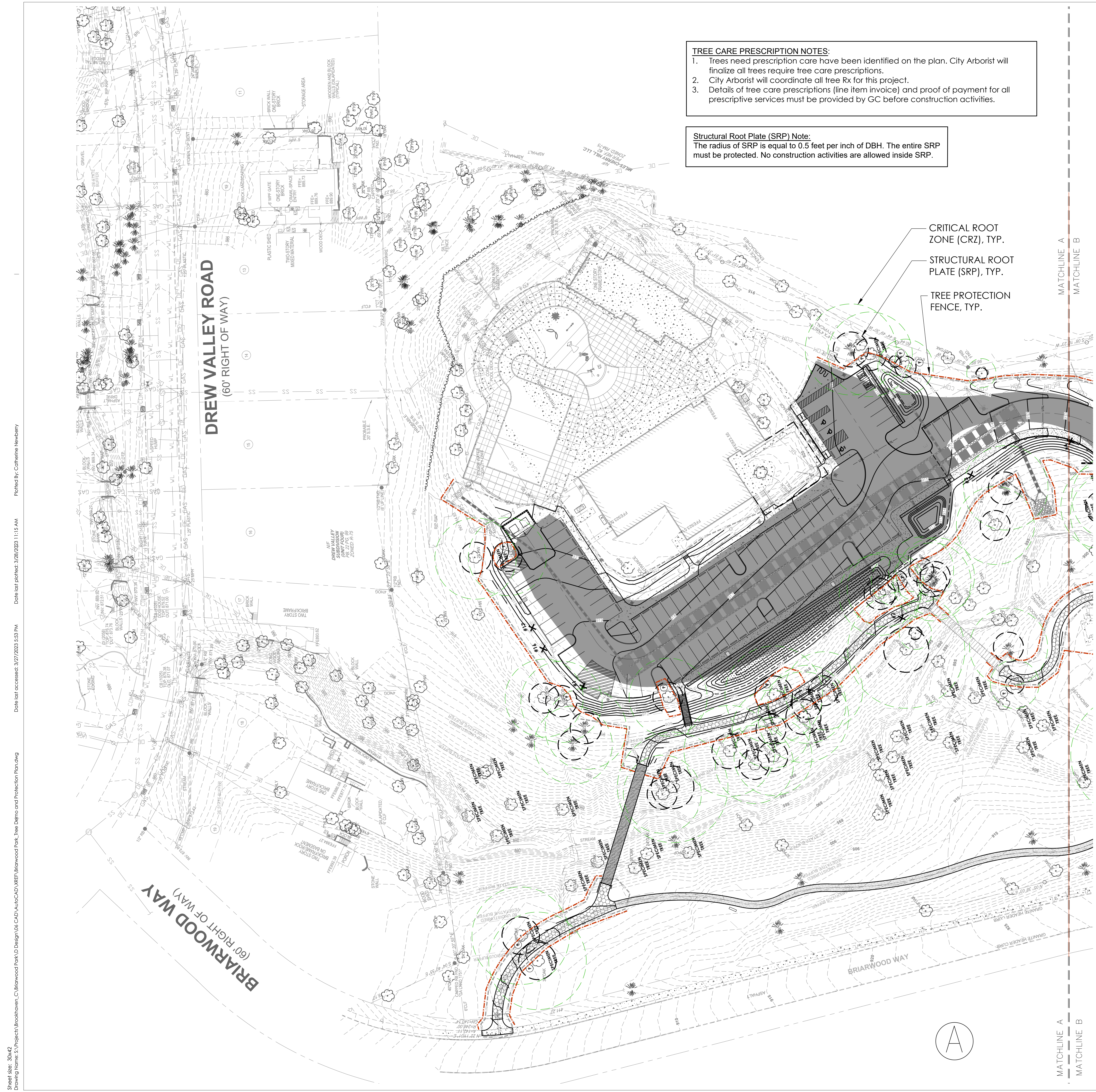
**REVISION SCHEDULE**

1	01-14-2023	LDP CITY COMMENT #1
2	01-19-2023	BUILDING PERMIT
3	02-09-2023	LDP CITY COMMENT #2
4	03-27-2023	LDP CITY COMMENT #3



**SHEET INFORMATION**

Scale: 1" = 30'  
 Date: 12.01.2022  
 Drawn By: MMS  
 Checked By: LAD  
 Design File: TREE PROTECTION PLAN ENLARGEMENT A

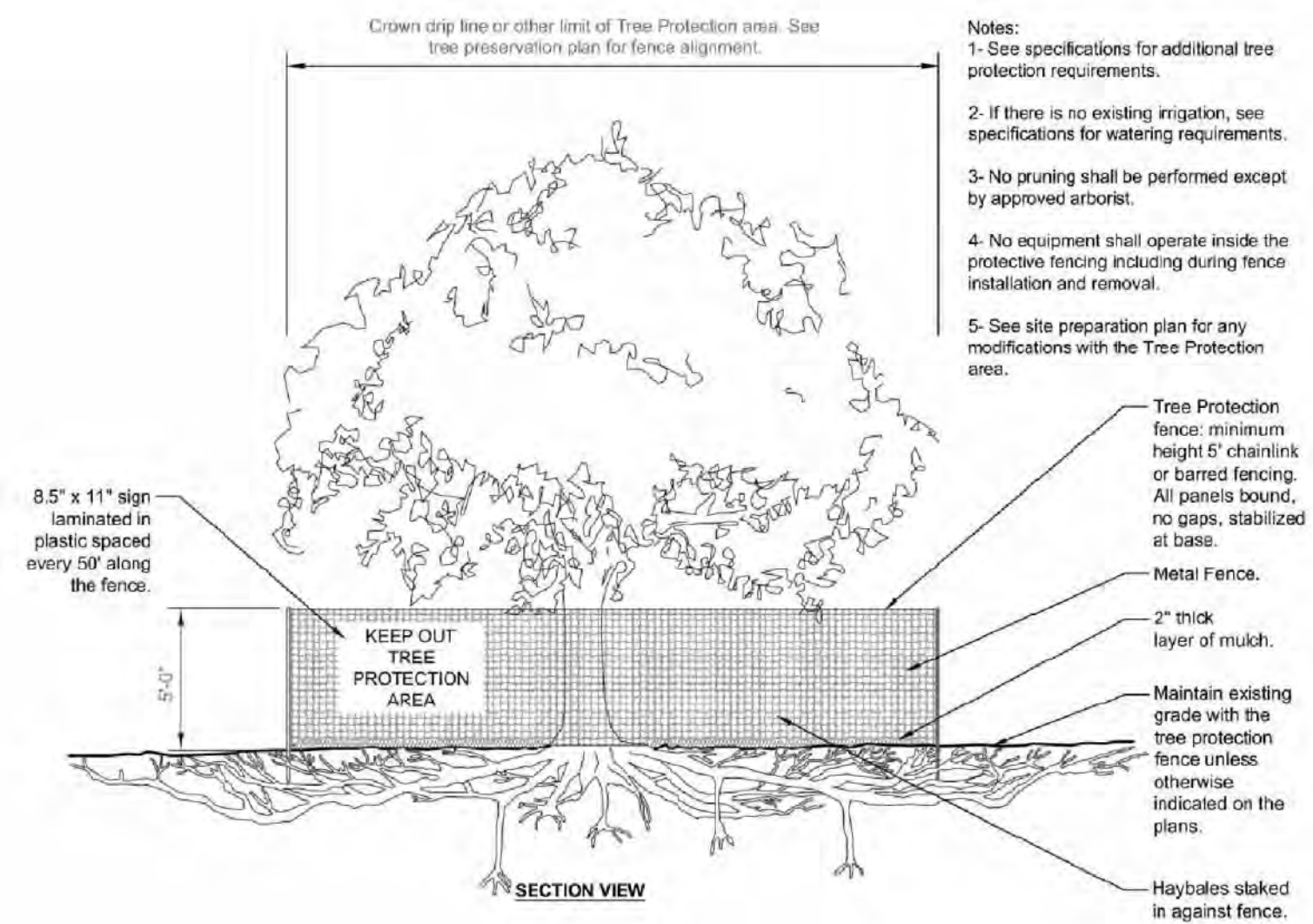
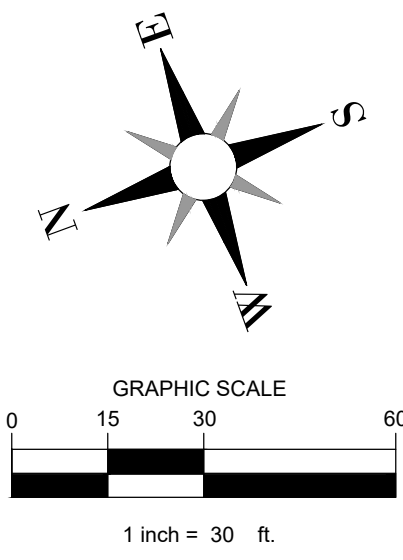


Sheet Size: 30x42  
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 Date last accessed: 3/27/2023 4:53 PM  
 Date last plotted: 3/28/2023 11:15 AM  
 Plotted By: Catherine Newberry

**TREE CARE PRESCRIPTION NOTES:**

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2. City Arborist will coordinate all tree Rx for this project.
3. Details of tree care prescriptions (line item invoice) and proof of payment for all prescriptive services must be provided by GC before construction activities.

**Structural Root Plate (SRP) Note:**  
 The radius of SRP is equal to 0.5 feet per inch of DBH. The entire SRP must be protected. No construction activities are allowed inside SRP.



**(A) TREE PROTECTION FENCE NOTES**

**TOTAL TREE FENCE AREA 'B' = 2,410 LF**

**Tree Protection Note:**  
 No machine trenching through Critical Root Zone. Hand-dig where silt fence (SD-1) crosses the Critical Root Zone of any tree. Root prune as needed according to ISA/ANSI professional standards.

**Special Tree Protection Note:**  
 All tree removal will be relay heavily on field adjustment to maximize numbers of trees preserved. Landscape architect, city arborist, and program manager will work as a team to make final decision on site.

CRITICAL ROOT ZONE (CRZ), TYP.  
 STRUCTURAL ROOT PLATE (SRP), TYP.  
 TREE PROTECTION FENCE, TYP.

**Park Bond Project Tree Preservation Form**

Park Name: **Briarwood Park**  
 Project: **Briarwood Park Improvement**  
 1/23/2023



**Proposed Trees Removed in Areas 'A' & 'B'**

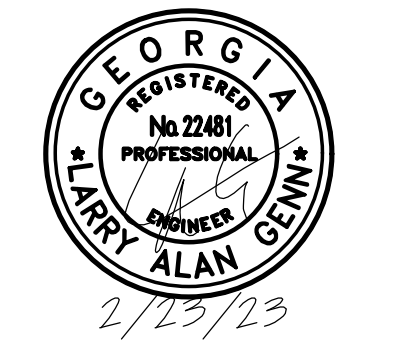
ID	Species	Size (Inches DBH)	Condition	Status	Reason for Removal	Quantity
1	LOBLOLLY PINE	24				1
2	OAK	14				1
3	LOBLOLLY PINE	22				1
4	LOBLOLLY PINE	26				1
5	POPLAR	24				1
6	POPLAR	24				1
7	POPLAR	26				1
8	LOBLOLLY PINE	24				1
9	LOBLOLLY PINE	25				1
10	OAK	11				1
11	OAK	6				1
12	OAK	10				1
13	OAK	8				1
14	HARDWOOD	24				1
15	POPLAR	25				1
16	LOBLOLLY PINE	25				1
17	LOBLOLLY PINE	22				1
<b>(See Demolition Plans)</b>						
<b>Total Inches Removed</b>	<b>340</b>				<b>Total Number of Trees Removed</b>	<b>17</b>

**LEGEND**

**X** REMOVED TREE. REMOVE TREE AND ROOT BALL.

**P** PRESCRIPTION TREE. TREES THAT HAVE THEIR ROOT ZONE DAMAGED BUT ARE DESIGNATED TO REMAIN. PROTECT THE TREE AND PROVIDE PRESCRIPTION TREATMENT. TREATMENT WILL BE PROVIDED BY THE CITY ARBORIST AND HIS TREE CARE CONSULTANT. CONTRACTOR ONLY NEEDS TO COORDINATE WITH CITY FOR THIS WORK. ACTUAL PRESCRIPTION WORK IS NOT PART OF THE GENERAL CONTRACTORS WORK.

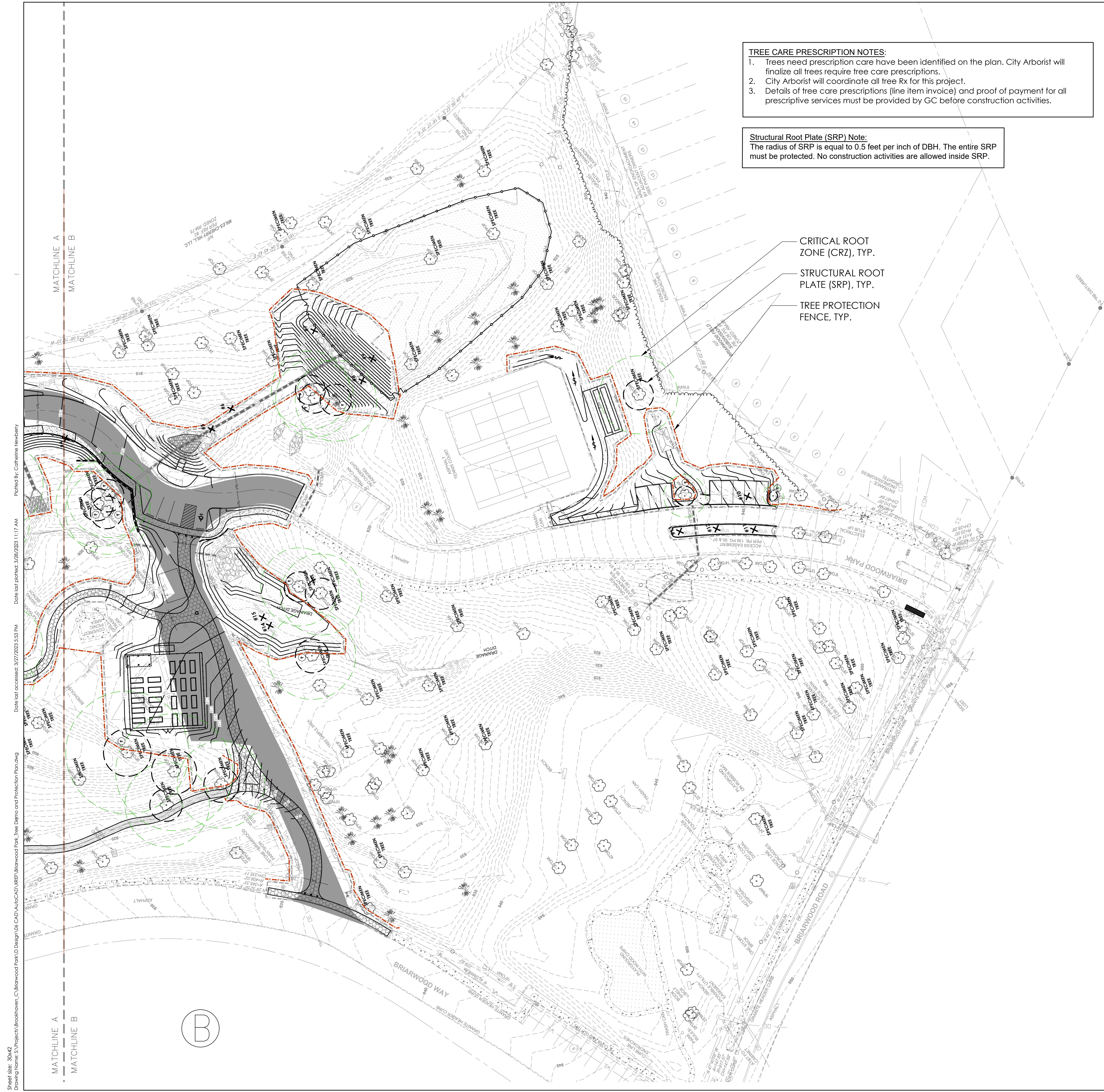
**SURVEY**  
 TERRAMARK LAND SURVEYING, INC.  
 1396 BELLS FERRY ROAD  
 MARIETTA, GEORGIA 30066  
 PHONE NO. (770) 421-1927  
 FAX NO. (770) 421-0552  
 WWW.TERRAMARK.COM  
 C. O. A.# LSF000810



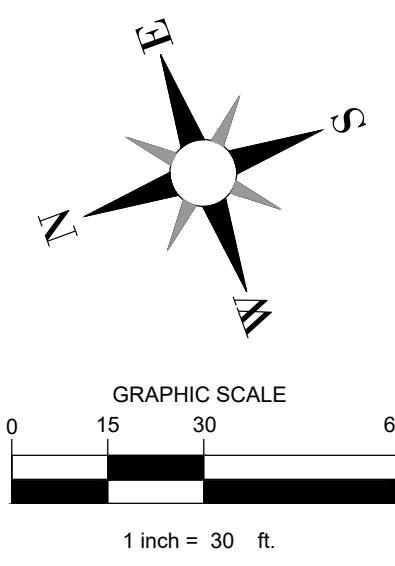
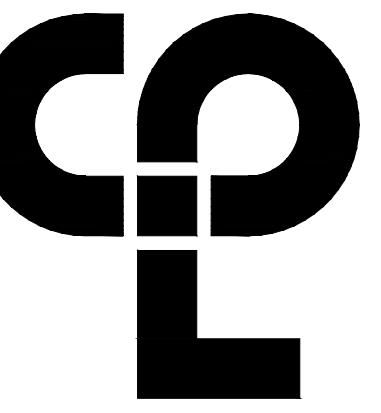
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 Scale: 1" = 30'  
 Created By: MJS  
 Checked By: LAD

Tree Protection Plan  
 ENLARGEMENT B



Sheet Size: 30x42  
 Drawing Name: S:\Project\Brookhaven, CV\Briarwood Park\AD Design\06 CAD\AUTOCAD\XREF\Briarwood Park Tree Demo and Protection Plan.dwg  
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 Date last plotted: 3/28/2023 1:17 AM  
 Plotted By: Catherine Newberry

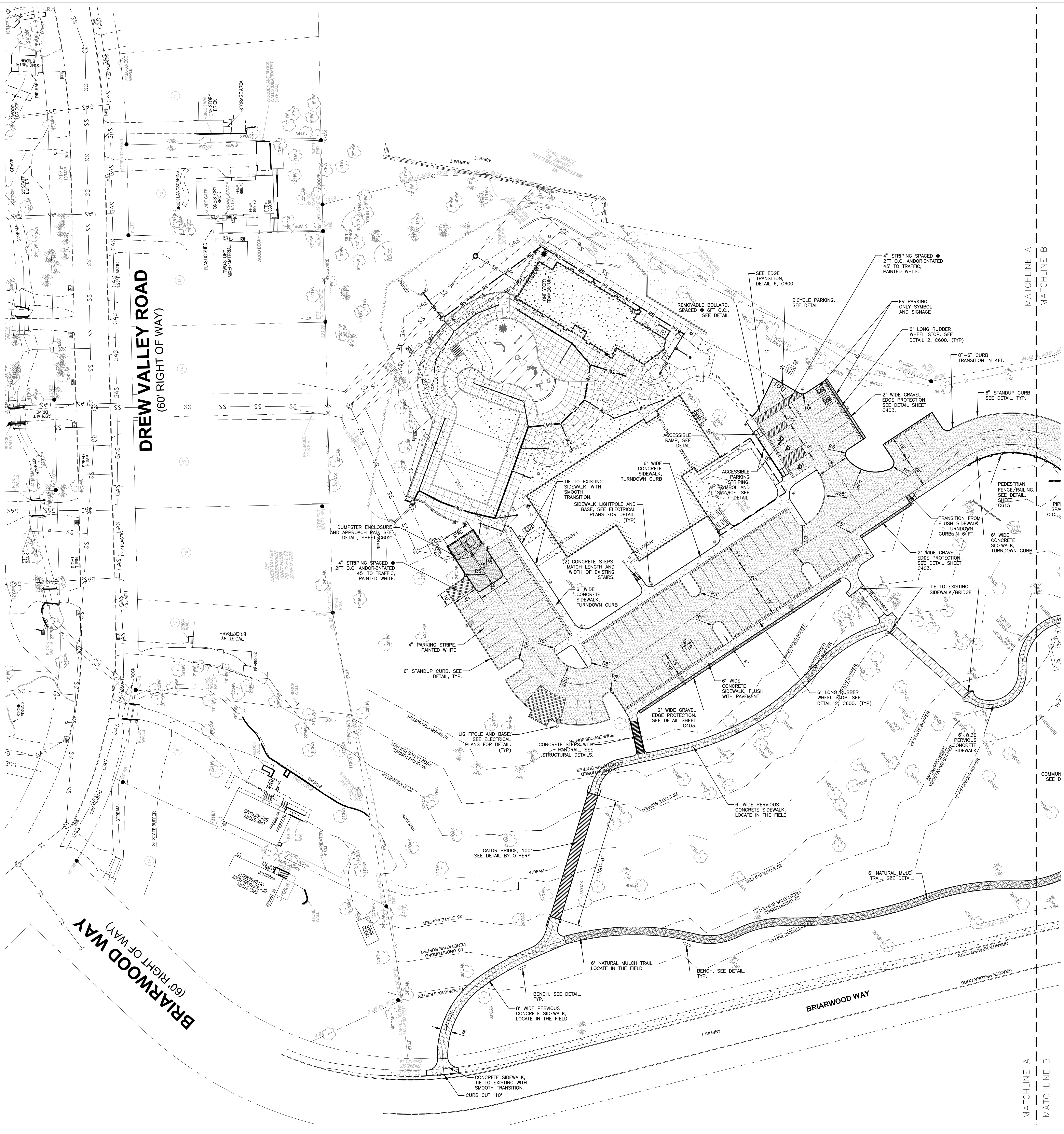


PAVING LEGEND

- STANDARD CONCRETE PAVEMENT  
DETAIL 3, SHEET C600
- 1-1/2" MILL AND OVERLAY, SHEET  
C600
- NATURAL MULCH TRAIL  
DETAIL 5, SHEET C600
- 4" PERVIOUS CONCRETE PAVEMENT  
DETAIL 5, SHEET C600
- 4" CONCRETE SIDEWALK  
DETAIL 1, SHEET C600
- PERMETRAK PRECAST  
BOARDWALK  
(SEE PLANS BY OTHERS)

SITE NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CITY, COUNTY AND STATE REGULATIONS, CODES AND O.S.H.A. STANDARDS.
- PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA AS PER F.E.M.A. FLOOD INSURANCE MAP PANEL NUMBER 13089C0025H DATED 8/15/2019.
- ALL DIMENSIONS SHOWN ARE TO FACE OF BUILDING, TO FACE OF CURB, TO CENTERLINE OF STRIPING, TO PROPERTY LINE OR CORNER, UNLESS OTHERWISE NOTED.
- HANDICAP RAMPS SHALL BE PROVIDED AT THE INTERSECTION OF SIDEWALKS AND ENTRANCE DRIVES (AND CONC. ENTRANCE ISLANDS) AS SHOWN ON PLANS.
- JOINT SEALANTS SHALL BE INSTALLED FOR ALL EXPANSION JOINTS IN PAVERS SET WITH MORTAR, CAST-IN-PLACE CONCRETE, JOINTS BETWEEN DIFFERING MATERIALS, BETWEEN CURBS AND SIDEWALK, BETWEEN EXISTING AND PROPOSED CONCRETE PAVEMENTS, CONTROL AND EXPANSION JOINTS IN CAST-IN-PLACE CONCRETE, CONTROL AND EXPANSION JOINTS IN UNIT MASONRY AND JOINTS IN MASONRY. PLASTIC ZIP CAPS SHALL BE REMOVED BEFORE SEALANT IS APPLIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE PROJECT IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS, THE CONTRACTOR SHALL SUBMIT THEM IN WRITING TO THE ENGINEER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WRITTEN CLARIFICATION FROM THE ENGINEER FOR OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK IN QUESTION OR OTHER RELATED WORK.
- ALL SITE WORK CONCRETE SHALL BE MINIMUM 3000 PSI 28 DAY STRENGTH.
- CONCRETE SCORE LINES SHALL BE EQUALLY SPACED WITHIN EACH CONCRETE PANEL, AT NO FURTHER THAN 6" MAXIMUM SPACING, AND AS CLOSE TO 4"x4" JOINTING AS POSSIBLE. SEE PLANS FOR TYPICAL LOCATIONS.
- AS SOON AS CONCRETE HAS BEEN FLOATED LEVEL AND SMOOTH AND HAS BEGUN TO SET UP, APPLY A LIGHT BROOM FINISH IN A CONSISTENT DIRECTION PERPENDICULAR TO THE DIRECTION OF PRIMARY PEDESTRIAN TRAVEL.
- ALL EXPANSION JOINTS ARE 1/2" PREMOLDED BITUMINOUS ASPHALT WITH A BACKER ROD AND JOINT SEALER.
- CONCRETE CRACK CONTROL JOINTS SHALL BE SAWCUT. SAWCUTTING MUST OCCUR THE SAME DAY THE CONCRETE IS POURED AND AS SOON AS IT CAN SUPPORT THE WEIGHT OF A PERSON WITH A SAW. PRIOR TO SAWCUTTING, CONTRACTOR SHALL CHALK LAYOUT JOINTS. CONTRACTOR SHALL SUBMIT SAWCUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- ALL EXPANSION AND CONTROL JOINTS SHALL ALIGN WHEREVER PROPOSED WORK MEETS EXISTING.
- ALL ACCESSIBLE RAMPS SHALL HAVE DETECTABLE WARNING SURFACES MEETING GOOT SPECIFICATIONS.
- EROSION, SEDIMENT & POLLUTION CONTROL MEASURES SHALL BE ERECTED PRIOR TO ANY LAND DISTURBANCE ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION UNTIL PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED. CLEAN OUT AND REMOVE ALL ACCUMULATED SILT AND SEDIMENT WHENEVER SAID DEVICES ARE HALF FULL.
- ALL CONSTRUCTION SURVEYING (INCLUDING LAYOUT) SHALL BE PERFORMED BY A LAND SURVEYOR WITH A CURRENT REGISTRATION AND LICENSE IN THE STATE OF GEORGIA. CONTRACTOR REQUIRED TO OBTAIN CERTIFIED AS-BUILTS OF LIGHT POLE BASE LOCATIONS AND BOLT PATTERNS AND CONFIRM WITH MANUFACTURER.



**EXISTING UTILITIES:**  
INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON IS BASED ON INFORMATION READILY AVAILABLE AT THE TIME OF PREPARATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE TAKEN INTO CONSIDERATION BY THOSE USING THIS DOCUMENT. THE LOCATION AND DISPOSITION OF UTILITIES SHOWN MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AFFECTED BY HIS WORK PRIOR TO BEGINNING ANY CONSTRUCTION OR LAND DISTURBANCE.

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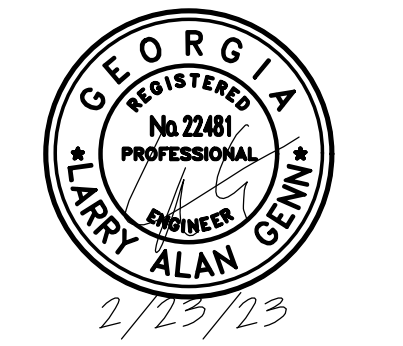
PROJECT INFORMATION

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

REVISION SCHEDULE

Rev.	Date	Description
1	01-14-2023	LOP CFI COMMENT #1
2	01-19-2023	BUILDING PERMIT
3	02-03-2023	LOP CFI COMMENT #2
4	03-27-2023	LOP CFI COMMENT #3

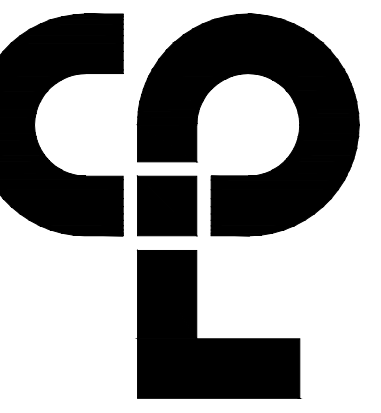


SHEET INFORMATION

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Scale: 1" = 30'  
Drawn By: MMS  
Checked By: LAG

SITE LAYOUT PLAN AREA A





**PROJECT INFORMATION**

Project Number: 1591.00  
Client Name: CITY OF BROOKHAVEN

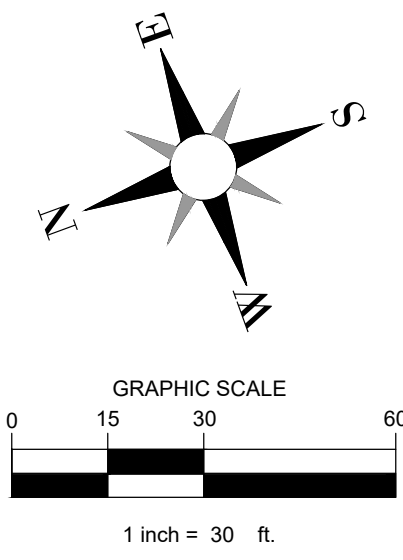
**PROJECT NAME**

BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev.	Date	Description
1	01-14-2023	LOP CFI COMMENT #1
2	01-19-2023	BUILDING PERMIT
3	02-03-2023	LOP CFI COMMENT #2
4	02-07-2023	LOP CFI COMMENT #3



**PAVING LEGEND**

	STANDARD CONCRETE PAVEMENT DETAIL 3, SHEET C600
	1-1/2" MILL AND OVERLAY, SHEET C600
	NATURAL MULCH TRAIL DETAIL 5, SHEET C600
	4" PERVIOUS CONCRETE PAVEMENT DETAIL 5, SHEET C600
	4" CONCRETE SIDEWALK DETAIL 1, SHEET C600
	PERMETRAK PRECAST BOARDWALK (SEE PLANS BY OTHERS)

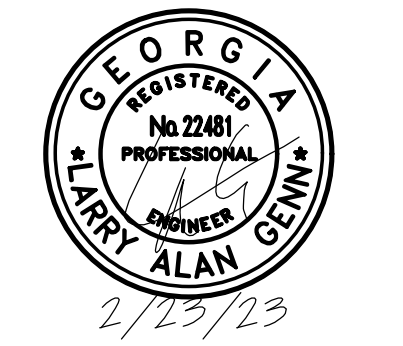
**SITE NOTES:**

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CITY, COUNTY AND STATE REGULATIONS, CODES AND O.S.H.A. STANDARDS.
2. PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA AS PER F.E.M.A. FLOOD INSURANCE MAP PANEL NUMBER 1308900024 DATED 8/15/2019.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF BUILDING, TO FACE OF CURB, TO CENTERLINE OF STRIPING, TO PROPERTY LINE OR CORNER, UNLESS OTHERWISE NOTED.
4. HANDICAP RAMPS SHALL BE PROVIDED AT THE INTERSECTION OF SIDEWALKS AND ENTRANCE DRIVES (AND CONC. ENTRANCE ISLANDS) AS SHOWN ON PLANS.
5. JOINT SEALANTS SHALL BE INSTALLED FOR ALL EXPANSION JOINTS IN PAVERS SET WITH MORTAR, CAST-IN-PLACE CONCRETE, JOINTS BETWEEN DIFFERENT MATERIALS, BETWEEN CURBS AND SIDEWALK, BETWEEN EXISTING AND PROPOSED CONCRETE PAVEMENTS, CONTROL AND EXPANSION JOINTS IN CAST-IN-PLACE CONCRETE, CONTROL AND EXPANSION JOINTS IN UNIT MASONRY AND JOINTS IN MASONRY. PLASTIC ZIP CAPS SHALL BE REMOVED BEFORE SEALANT IS APPLIED.
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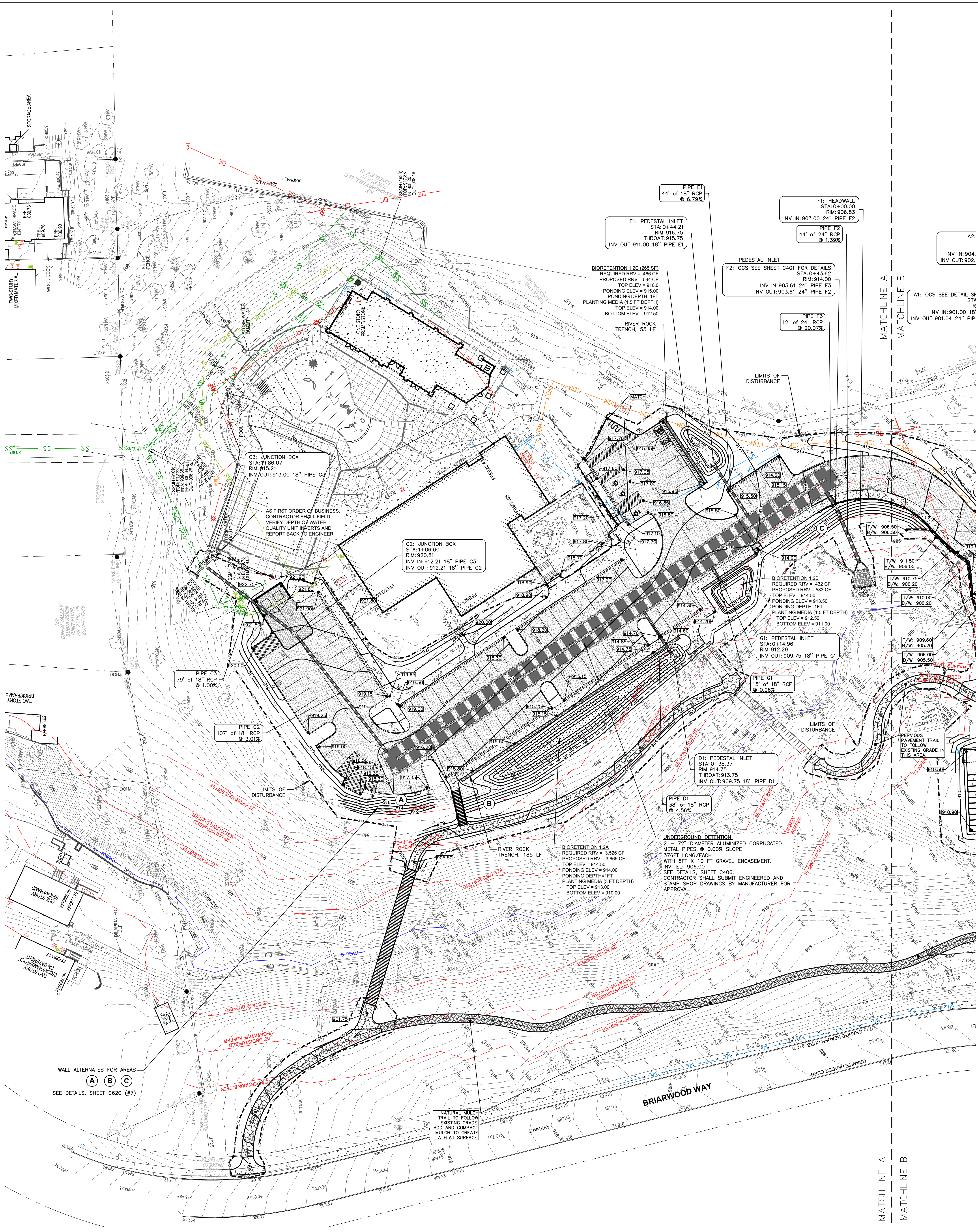
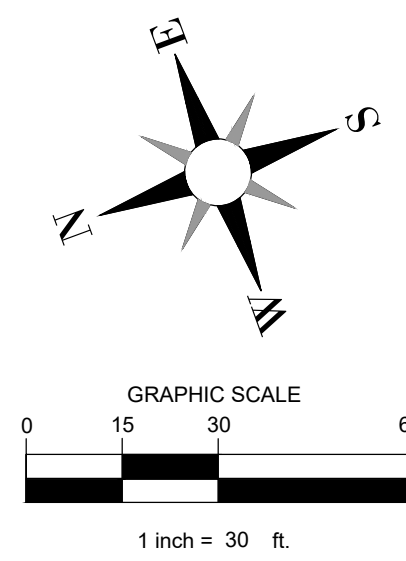
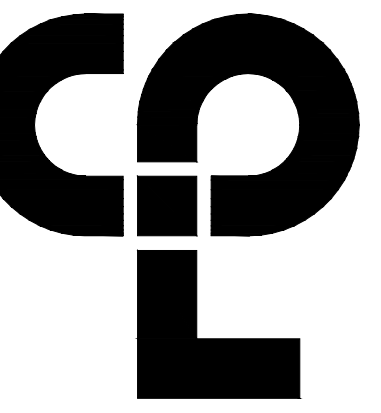
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS REGULATIONS FOR ANY PERSONS LICENSING ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ASSIST IN ANY MANNER IN ANY STATE WITHOUT THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR AND WITHOUT THE SIGNATURE THEREON IN ANY MANNER. THIS SEAL, SIGNATURE AND THE SIGNATURE THEREON SHALL BE THE PROPERTY OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR AND SHALL BE RETURNED TO HIM OR HER UPON THE DATE OF SUCH ALTERATION AND A PROPER RECORD OF THE ALTERATION.

**SHEET INFORMATION**  
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Date: 12/01/2022  
Created by: MMS  
Checked by: LAG

Sheet Title: SITE LAYOUT PLAN  
Area: B

C301  
SHEET # 5  
PLAN 04/28/2023  
Permit # LDP22-00019

Sheet Size: 30x42  
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Date last accessed: 3/27/2023 12:28 PM  
Date last plotted: 3/27/2023 1:29 PM  
Plotted by: Catherine Newberry



**GRADING AND DRAINAGE NOTES:**

- NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER FIRM PANEL 1308800024K DATED 8/15/2019.
- THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.
- WATER QUALITY FOR THIS PROJECT IS PROVIDED ON SITE BY A COMBINATION OF BIO-RETENTION AREAS, WATER QUALITY PONDS AND PROPRIETARY DEVICES.
- STREAM BUFFERS EXIST ON THE PROPERTY.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING:
  - THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND,
  - THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND,
  - IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.
- SOURCE OF TOPOGRAPHY IS SURVEY BY GASKINS DATED 11-21-19 AND REFERENCE VERTICAL DATUM IS NAVD 88 DATUM.
- MINIMUM SLOPE FOR CUT OR FILL IS 3% EXCEPT EARTHEN DAM EMBANKMENTS, ROCK CUTS, WHERE CERTIFIED BY A PROFESSIONAL GEOTECHNICAL ENGINEER OR AS DISCUSSED IN 8.1.6 SHALL BE 8:1.6 SHALL BE 3%.
- HOPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO M-7, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET CONFORMING TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30 OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- ALL HOPE PIPE SHALL BE DOUBLE-WALL, SMOOTH INTERIOR.
- ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- BE THOROUGHLY FAMILIAR WITH ALL EXISTING SITE CONDITIONS BY SITE VISITATION, DETAILED REVIEW OF ALL CURRENT SITE PLANS, PREVIOUS INFORMATION OF SURROUNDING LAND USES AND ZONING CONDITIONS OR OTHER MATERIALS TO FULLY ASCERTAIN THE SCOPE OF THE WORK IMPLIED WITHIN THE PLANS.
- ESTABLISH AND MAINTAIN HORIZONTAL AND VERTICAL BENCHMARKS THROUGHOUT THE DURATION OF THE PROJECT.
- PROVIDE AN "AS-BUILT" SURVEY OF ALL SITE IMPROVEMENTS INCLUDING WATER, STORM SEWER, SANITARY SEWER AND FIRE PROTECTION SYSTEMS; SAID "AS-BUILT" SURVEY SHALL BE PERFORMED BY AN EXPERIENCED GEORGIA REGISTERED LAND SURVEYOR AND SHALL ILLUSTRATE ALL FINAL GRADE ELEVATIONS, HORIZONTAL AND VERTICAL RELATIONSHIPS BETWEEN BUILT STRUCTURES, PIPING, AND POND FINISHED GRADIENTS OF PIPES AND MATERIALS TYPES. THE CONTRACTOR SHALL RENDER THE AS-BUILT DRAWINGS AT AN ACCEPTABLE MEASURED SCALE(S) AND SHALL DELIVER A REPRODUCIBLE COPY OF SAID "AS-BUILT" TO THE OWNER PRIOR TO APPLICATION OF FINAL PAYMENT.
- A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER WILL MONITOR ALL EARTHWORK OPERATIONS AND PROVIDE TESTING AS TO THE STANDARDS AND QUALITY OF BEARING SURFACES AND THE MINIMUM QUALITY STANDARDS OF MATERIALS. THE GEOTECHNICAL ENGINEER SHALL MAKE THE SOLE INTERPRETATION OF ROCK AND UNSATURABLE SOILS AND SHALL MAKE RECOMMENDATIONS AS TO ITS REMOVAL OR FINAL DISPOSITION. ALL ROCK ENCOUNTERED IS PART OF THE WORK, NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK.
- LIMIT CONSTRUCTION OPERATIONS TO THE PROJECT SITE AND PROTECT ADJACENT PROPERTIES AND PROPERTY OWNERS FROM ENCROACHMENT BY SOIL EROSION.
- THE SCOPE OF WORK DEFINED WITHIN THIS PLAN INCLUDES ALL GRADING OPERATIONS FOR FINAL GRADE ELEVATIONS AS SHOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTH QUANTITIES, GRADING OPERATIONS AND MISCELLANEOUS HAULING AND/OR DISPOSAL OPERATIONS TO RENDER THE SITE TO THE FINAL CONTOUR AND GRADE ELEVATIONS SHOWN ON THE PLAN. "EXCESS" CUT IS GENERATED FROM EXCAVATIONS. SAID "EXCESS" SHALL BE DISTRIBUTED AND FINE GRADED AND GRASSED ON DESIGNATED OR APPROVED AREA OF THE OWNER'S PROPERTY.
- LAND DISTURBANCE TO BE LIMITED TO THOSE AREAS NEEDED FOR DRIVES, DRAINAGE, BUILDINGS, PARKING, AND UTILITIES. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

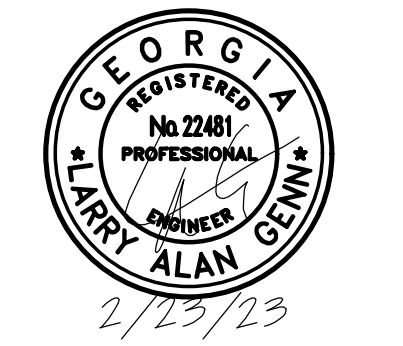
**PROJECT INFORMATION**  
 Project Number: 15991.00  
 Client Name: CITY OF BROOKHAVEN  
 Project Name: BRIARWOOD PARK  
 Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev.	Date	Description
1	01-14-2023	LDP CFI COMMENT #1
2	01-19-2023	REVISION PERMIT
3	02-09-2023	LDP CFI COMMENT #2
4	03-07-2023	LDP CFI COMMENT #3

**NOTE:**  
SEE LINE ITEM # 3 ON CONSTRUCTION ITEMS - BID SCHEDULE

**EXISTING UTILITIES:**  
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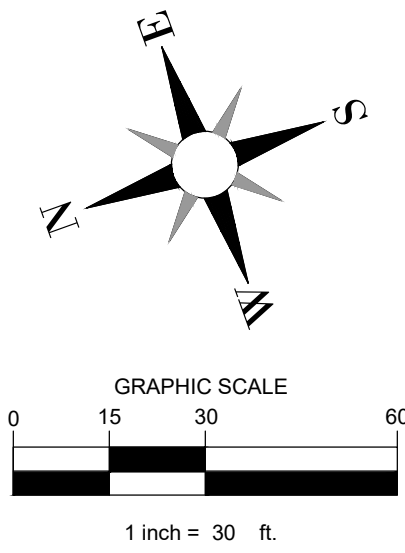
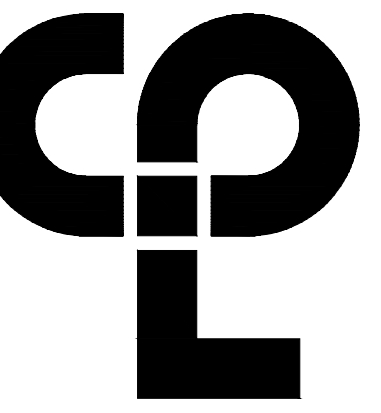


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**SHEET INFORMATION**  
 Date: 12/01/2022  
 Scale: 1" = 30'  
 Drawn By: MJS  
 Created By: LAD  
 Designing File:  
**SITE GRADING AND DRAINAGE PLAN# AREA A**



Sheet Size: 30x42  
 Drawing Name: S:\Project\Brookhaven, C:\Briarwood Park\A Design\06 CAD\AUCAD\XREF\Briarwood Park\_Grading\Drainage\Utility.dwg  
 Date last accessed: 3/27/2023 12:44 PM  
 Date last plotted: 3/27/2023 1:30 PM  
 Plotted By: Catherine Newberry



**GRADING AND DRAINAGE NOTES:**

- NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER FIRM PANEL 13089C0052K DATED 8/15/2019.
- THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.
- WATER QUALITY FOR THIS PROJECT IS PROVIDED ON SITE BY A COMBINATION OF BIO-RETENTION AREAS, WATER QUALITY PONDS AND PROPRIETARY DEVICES.
- STREAM BUFFERS EXIST ON THIS PROPERTY.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING:
  - THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND,
  - THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND,
  - IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.
- SOURCE OF TOPOGRAPHY IS SURVEY BY GASKINS DATED 11-21-19 AND REFERENCE VERTICAL DATUM IS NAVD 83 DATUM.
- MAXIMUM SLOPE FOR CUT OR FILL IS 3H:1V EXCEPT EARTHEN DAM EMBANKMENTS, ROCK CUTS, WHICH CERTIFIED BY A PROFESSIONAL GEOTECHNICAL ENGINEER OR AS DISCUSSED IN 8.1.6 SHALL BE 8:1.6 SHALL BE 3H:1V.
- HIDE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO M-7, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET WHICH CONFORMS TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321. AASHTO SECTION 30 OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- HIDE PIPE SHALL BE DOUBLE-WALL, SMOOTH INTERIOR.
- ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
- BE THOROUGHLY FAMILIAR WITH ALL EXISTING SITE CONDITIONS BY SITE VISITATION, DETAILED REVIEW OF ALL CURRENT SITE PLANS, PREVIOUS INFORMATION OF SURROUNDING LAND USES AND ZONING CONDITIONS OR OTHER MATERIALS TO FULLY ASCERTAIN THE SCOPE OF THE WORK IMPLIED WITHIN THE PLANS.
- ESTABLISH AND MAINTAIN HORIZONTAL AND VERTICAL BENCHMARKS THROUGHOUT THE DURATION OF THE PROJECT.
- PROVIDE AN "AS-BUILT" SURVEY OF ALL SITE IMPROVEMENTS INCLUDING WATER, STORM SEWER, SANITARY SEWER AND FIRE PROTECTION SYSTEMS; SAID "AS-BUILT" SURVEY SHALL BE PERFORMED BY AN EXPERIENCED GEORGIA REGISTERED LAND SURVEYOR AND SHALL ILLUSTRATE ALL FINAL GRADE ELEVATIONS, HORIZONTAL AND VERTICAL RELATIONSHIPS BETWEEN BUILT STRUCTURES, PIPING, ADD POND FINISHED GRADIENTS OF PIPES AND MATERIALS TYPES. THE CONTRACTOR SHALL RENDER THE AS-BUILT DRAWINGS AT AN ACCEPTABLE MEASURED SCALE(S) AND SHALL DELIVER A REPRODUCIBLE COPY OF SAID "AS-BUILT" TO THE OWNER PRIOR TO APPLICATION OF FINAL PAYMENT.
- A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER WILL MONITOR ALL EARTHWORK OPERATIONS AND PROVIDE TESTING AS TO THE STANDARDS AND QUALITY OF BEARING SURFACES AND THE MINIMUM QUALITY STANDARDS OF MATERIALS. THE GEOTECHNICAL ENGINEER SHALL MAKE THE SOLE INTERPRETATION OF ROCK AND UNSUITABLE SOILS AND SHALL MAKE RECOMMENDATIONS AS TO ITS REMOVAL OR FINAL DISPOSITION. ALL ROCK ENCOUNTERED IS PART OF THE WORK, NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK.
- LIMIT CONSTRUCTION OPERATIONS TO THE PROJECT SITE AND PROTECT ADJACENT PROPERTIES AND PROPERTY OWNERS FROM ENCROACHMENT BY SOIL EROSION.
- THE SCOPE OF WORK DEFINED WITHIN THIS PLAN INCLUDES ALL GRADING OPERATIONS FOR FINAL GRADE ELEVATIONS AS SHOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTH QUANTITIES, GRADING OPERATIONS AND MISCELLANEOUS HAULING AND/OR DISPOSAL OPERATIONS TO FENCE THE SITE TO THE FINAL CONTOUR AND GRADE ELEVATIONS SHOWN ON THE PLAN. IF "EXCESS" CUT IS GENERATED FROM EXCAVATIONS, SAID "EXCESS" SHALL BE DISTRIBUTED AND FINE GRADED AND GRASSED ON DESIGNATED OR APPROVED AREA OF THE OWNER'S PROPERTY.
- LAND DISTURBANCE TO BE LIMITED TO THOSE AREAS NEEDED FOR DRIVES, DRAINAGE, BUILDINGS, PARKING, AND UTILITIES. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

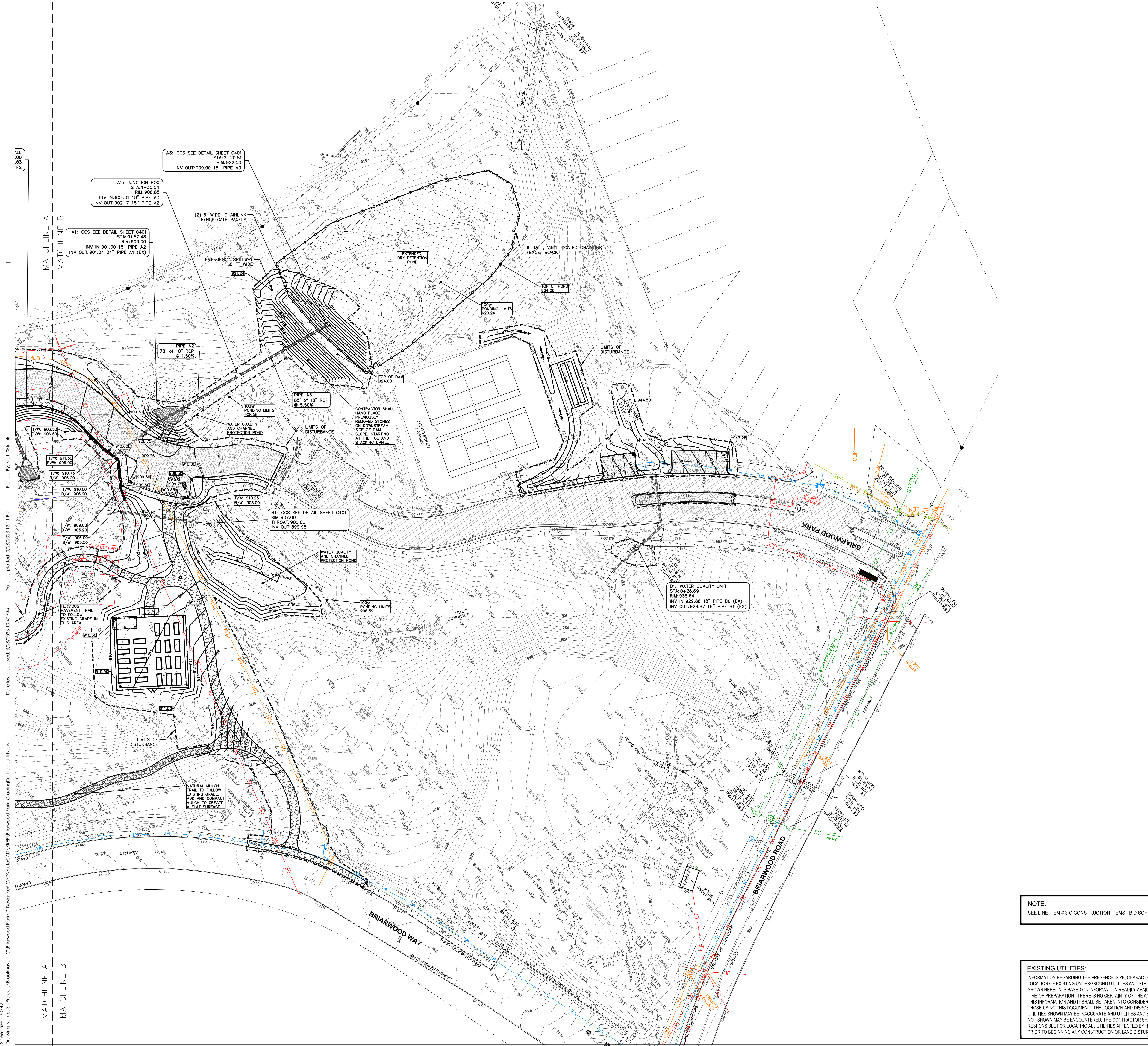
**PROJECT INFORMATION**

Project Number: 1591.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev. No.	Date	Description
1	01-14-2022	LDP CIP COMMENT #1
2	01-19-2022	BUILDING PERMIT
3	02-03-2022	LDP CIP COMMENT #2
4	02-07-2022	LDP CIP COMMENT #3



B1: WATER QUALITY UNIT  
STA: 0+26.69  
RIM: 926.64  
INV IN: 929.88 18" PIPE B0 (EX)  
INV OUT: 929.87 18" PIPE B1 (EX)

A3: OCS SEE DETAIL SHEET C401  
STA: 2+20.81  
RIM: 922.20  
INV OUT: 909.00 18" PIPE A3

A2: JUNCTION BOX  
STA: 1+35.54  
RIM: 908.85  
INV IN: 904.31 18" PIPE A3  
INV OUT: 902.17 18" PIPE A2

A1: OCS SEE DETAIL SHEET C401  
STA: 0+57.48  
RIM: 906.00  
INV IN: 901.00 18" PIPE A2  
INV OUT: 901.04 24" PIPE A1 (EX)

NOTE:  
SEE LINE ITEM # 3 O CONSTRUCTION ITEMS - BID SCHEDULE

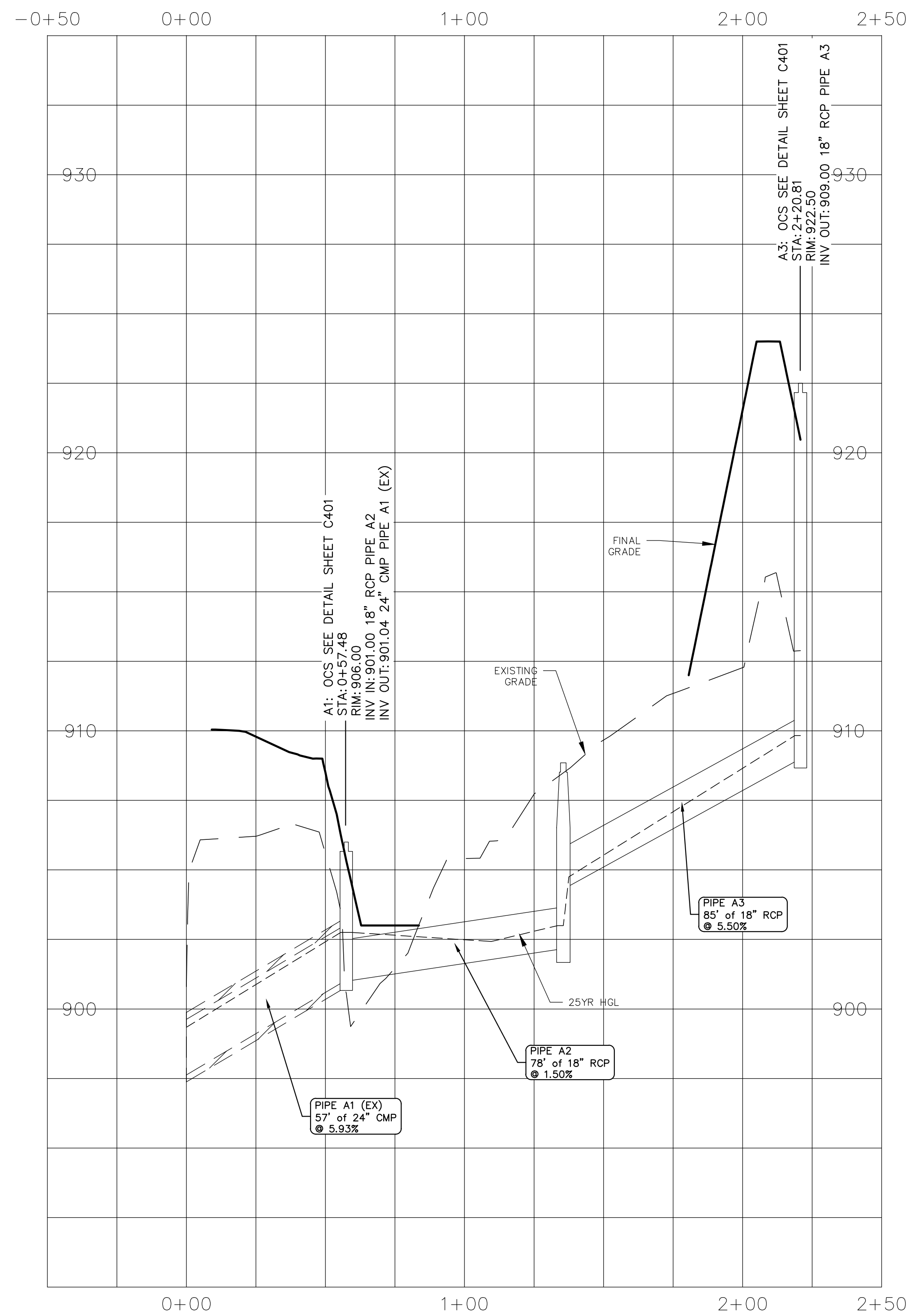
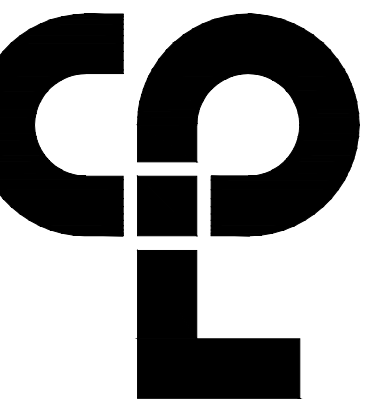
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INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON IS BASED ON INFORMATION READILY AVAILABLE AT THE TIME OF PREPARATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE TAKEN INTO CONSIDERATION BY THOSE USING THIS DOCUMENT. THE LOCATION AND DISPOSITION OF UTILITIES SHOWN MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AFFECTED BY HIS WORK PRIOR TO BEGINNING ANY CONSTRUCTION OR LAND DISTURBANCE.



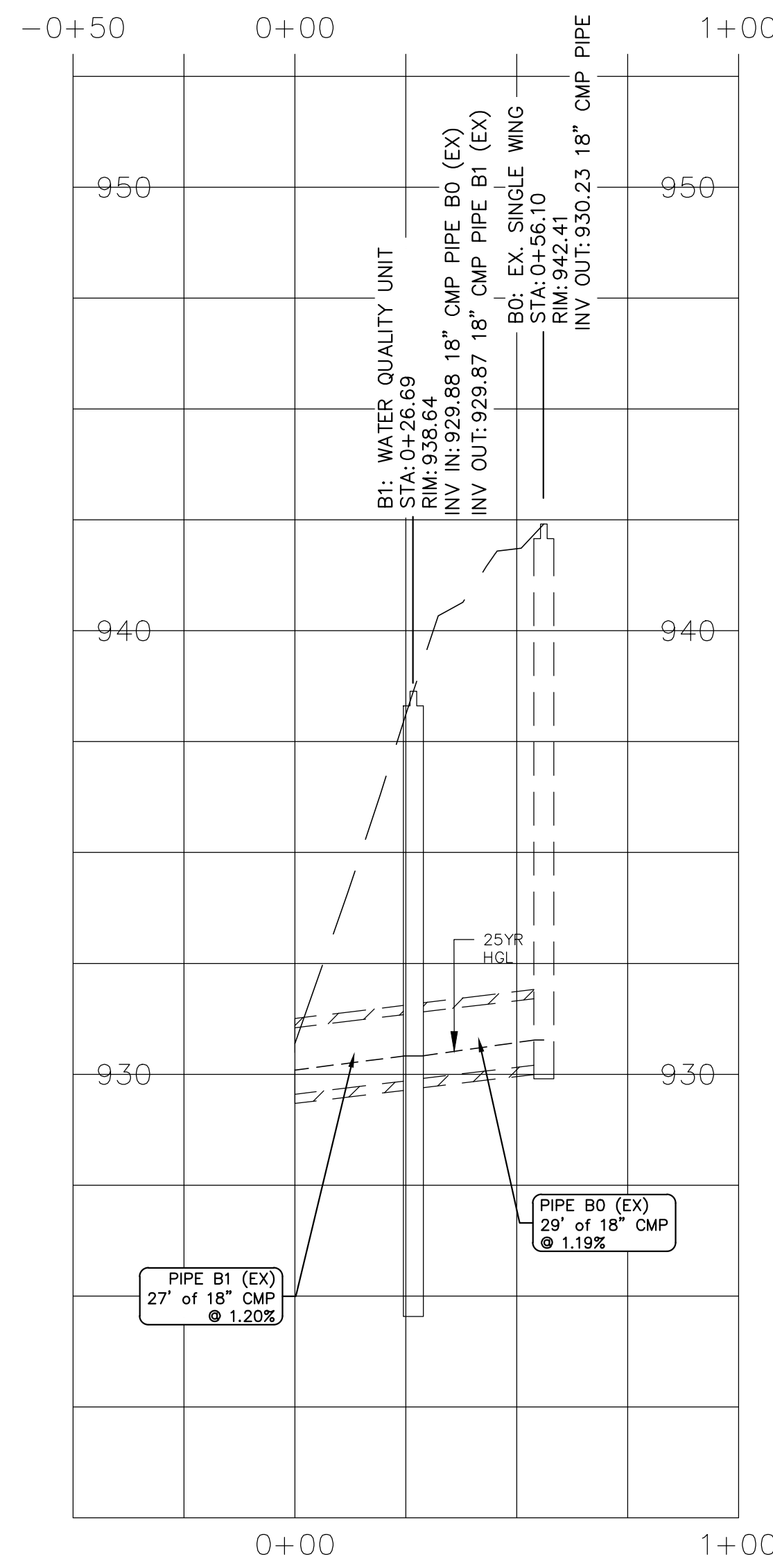
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C401  
SHEET # 1 OF 2  
DATE: 04/28/2023  
PERMIT # LDP22-00019

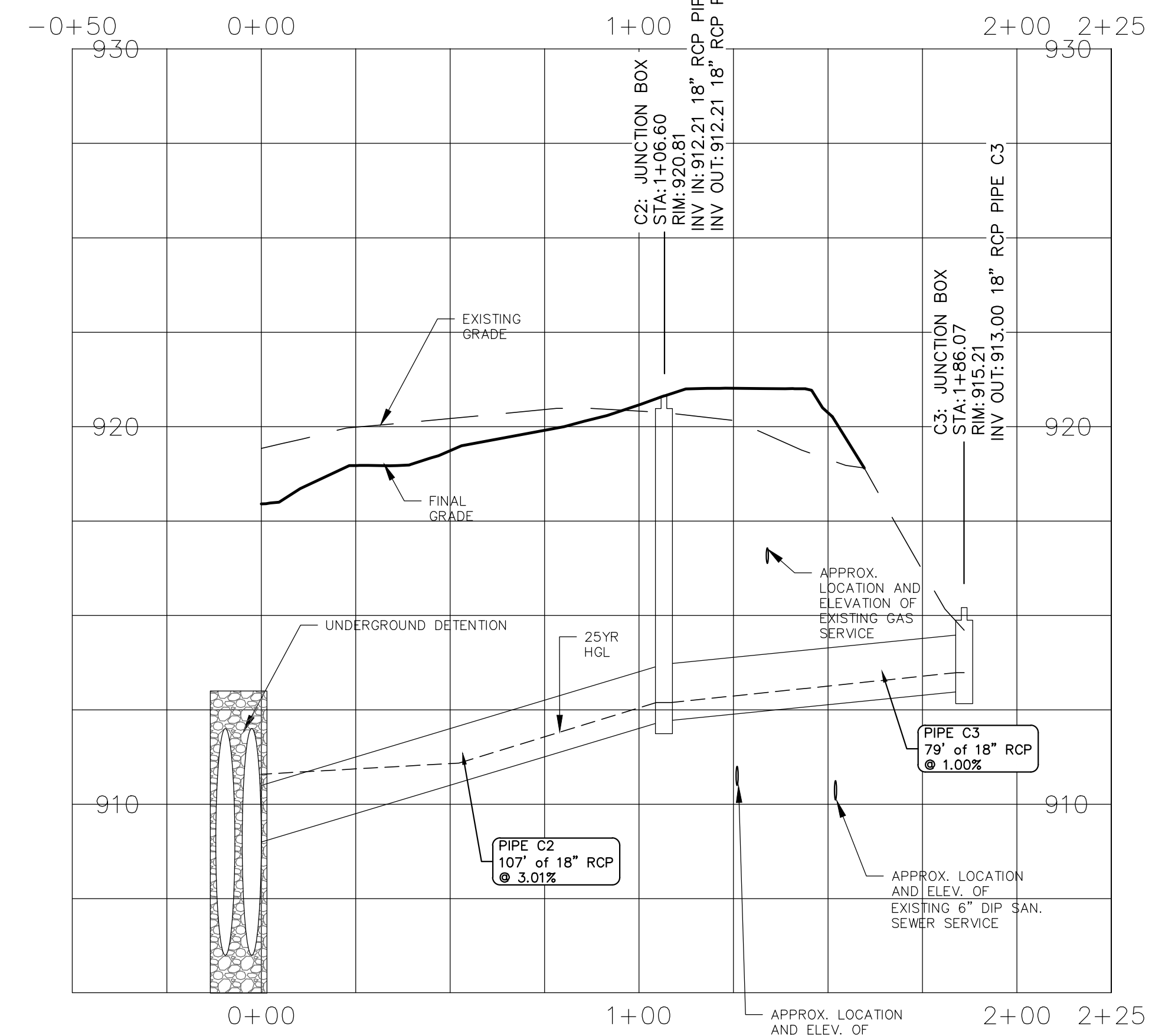
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 Plotted By: Matt Sistrunk



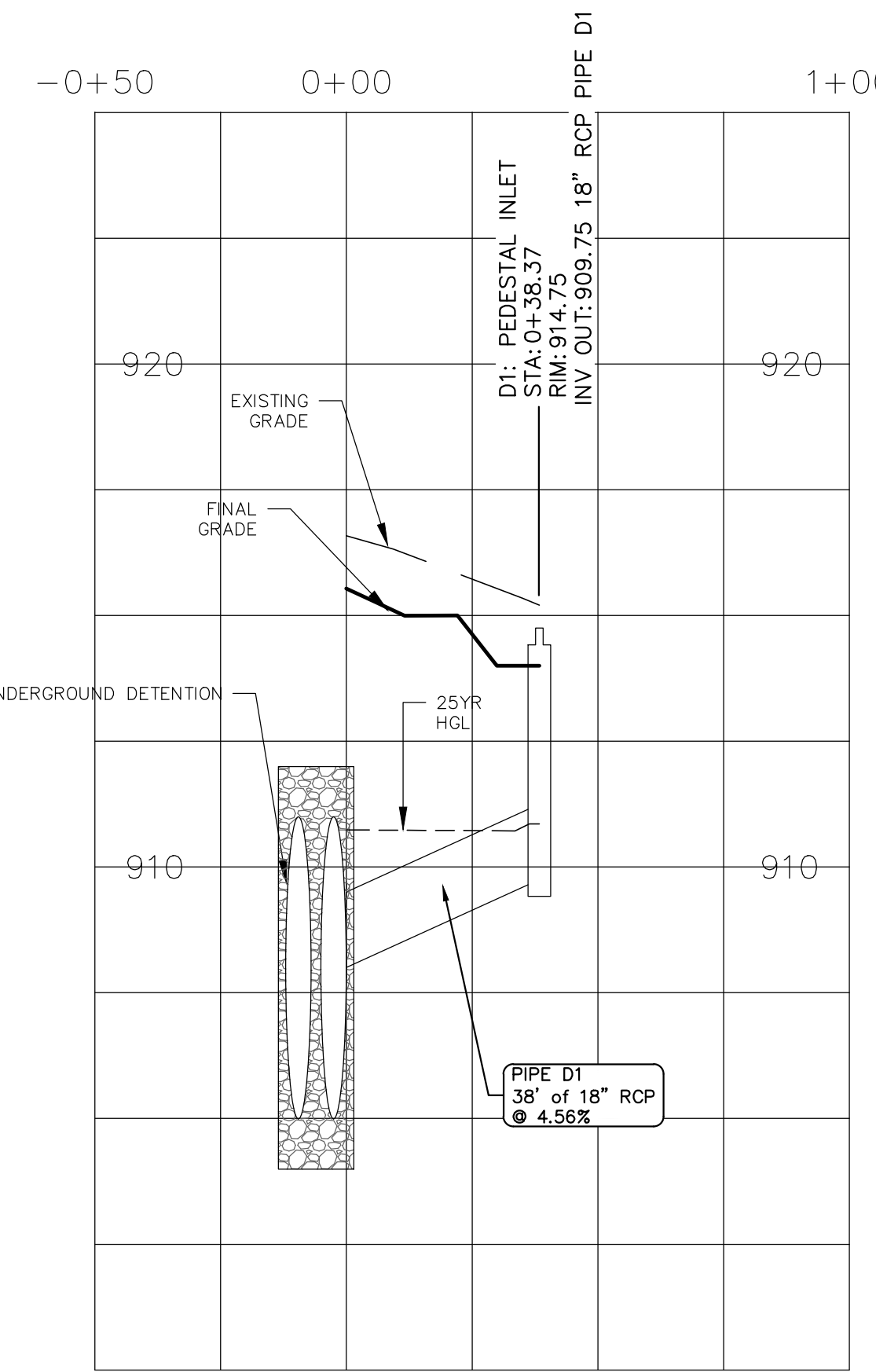
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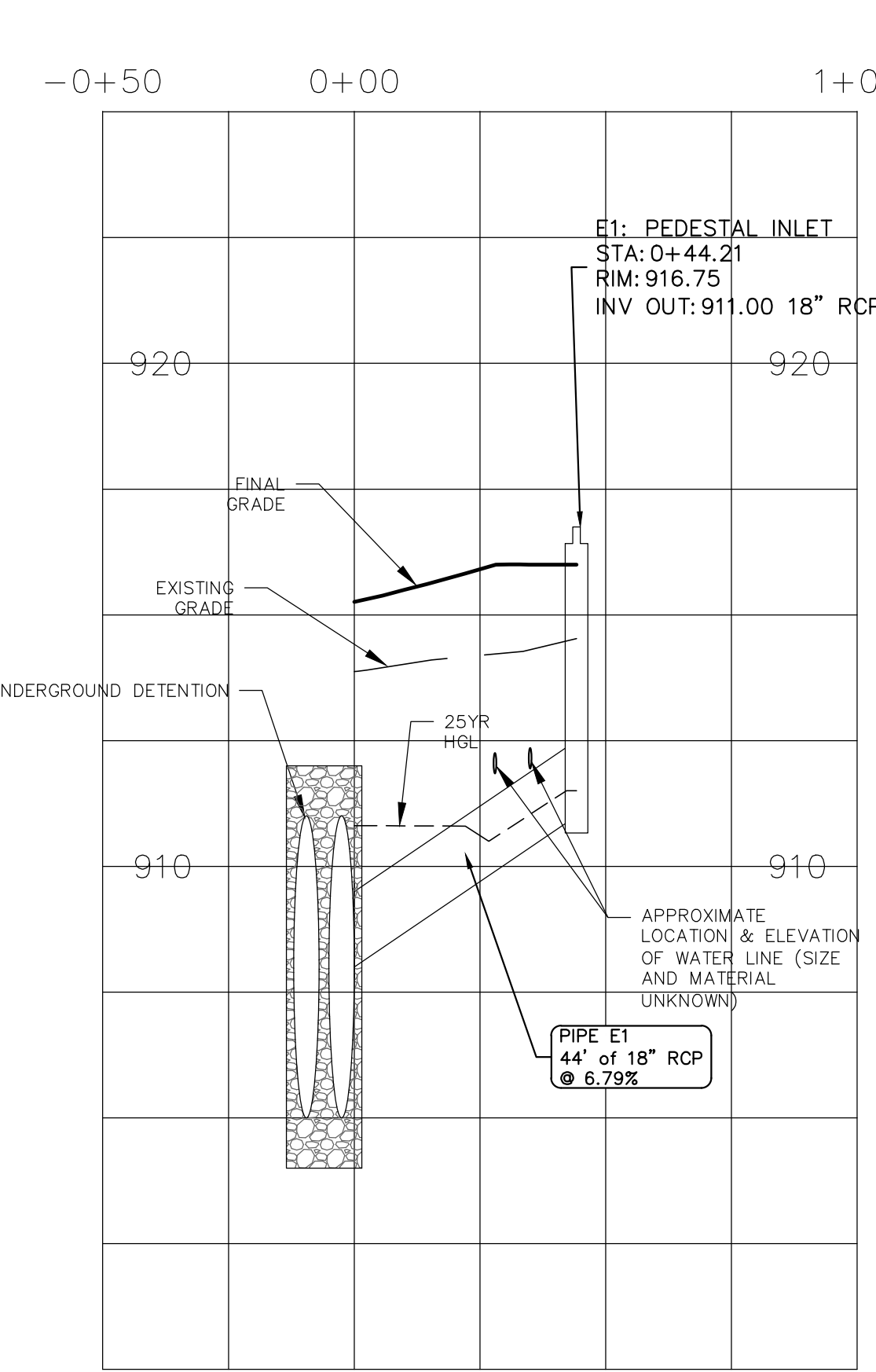
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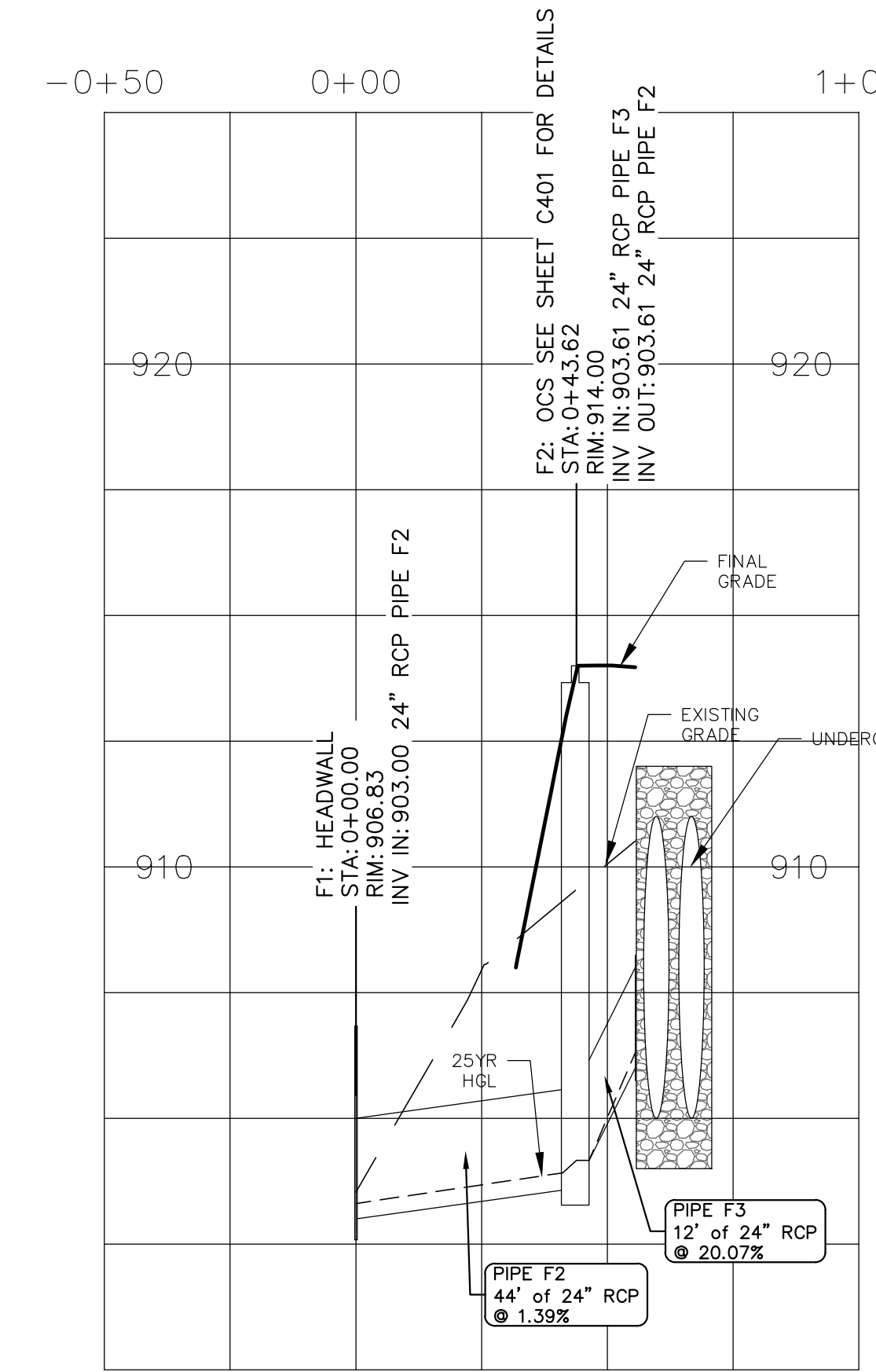
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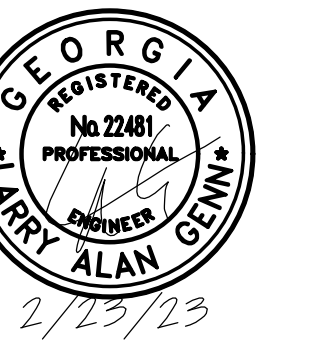


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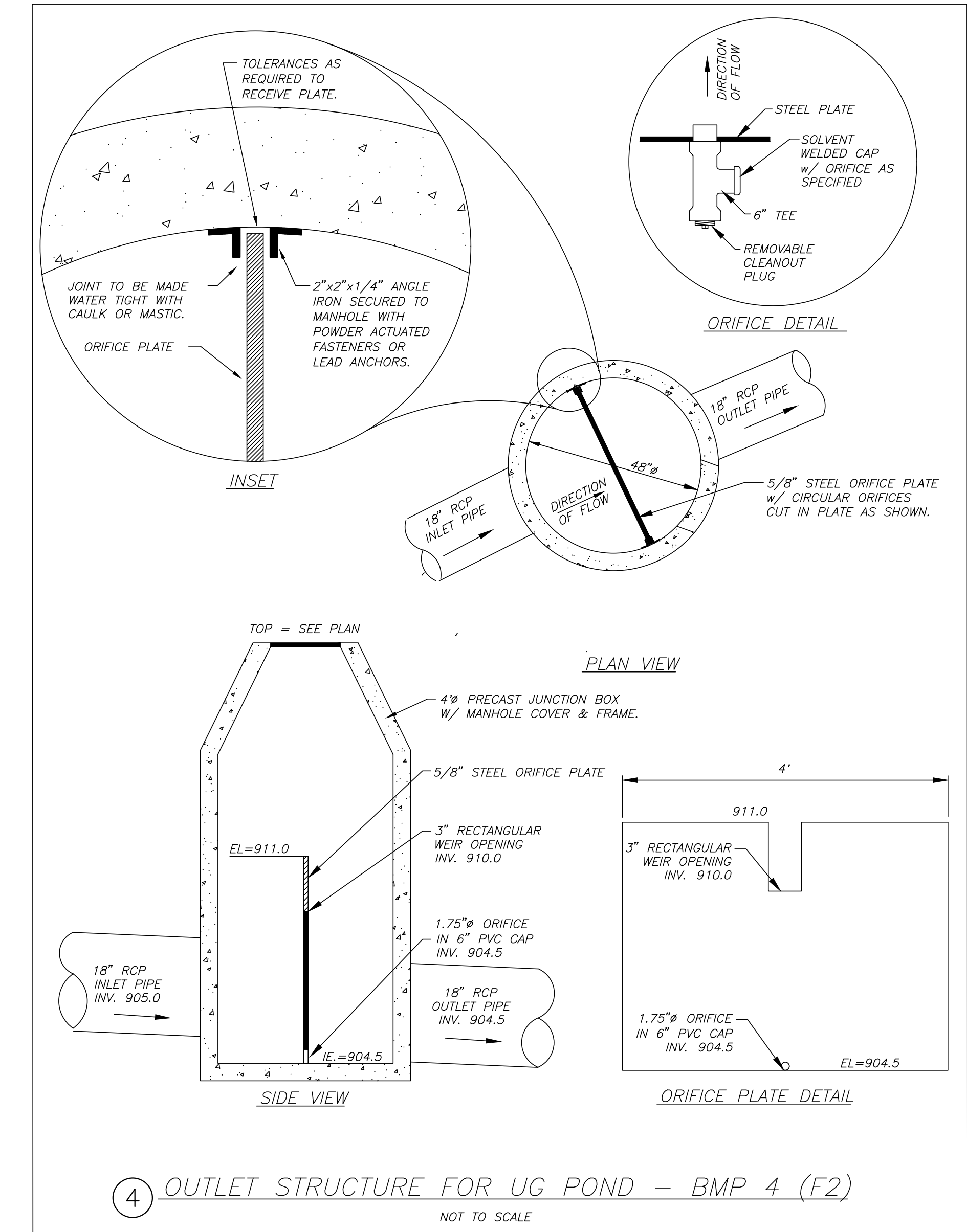
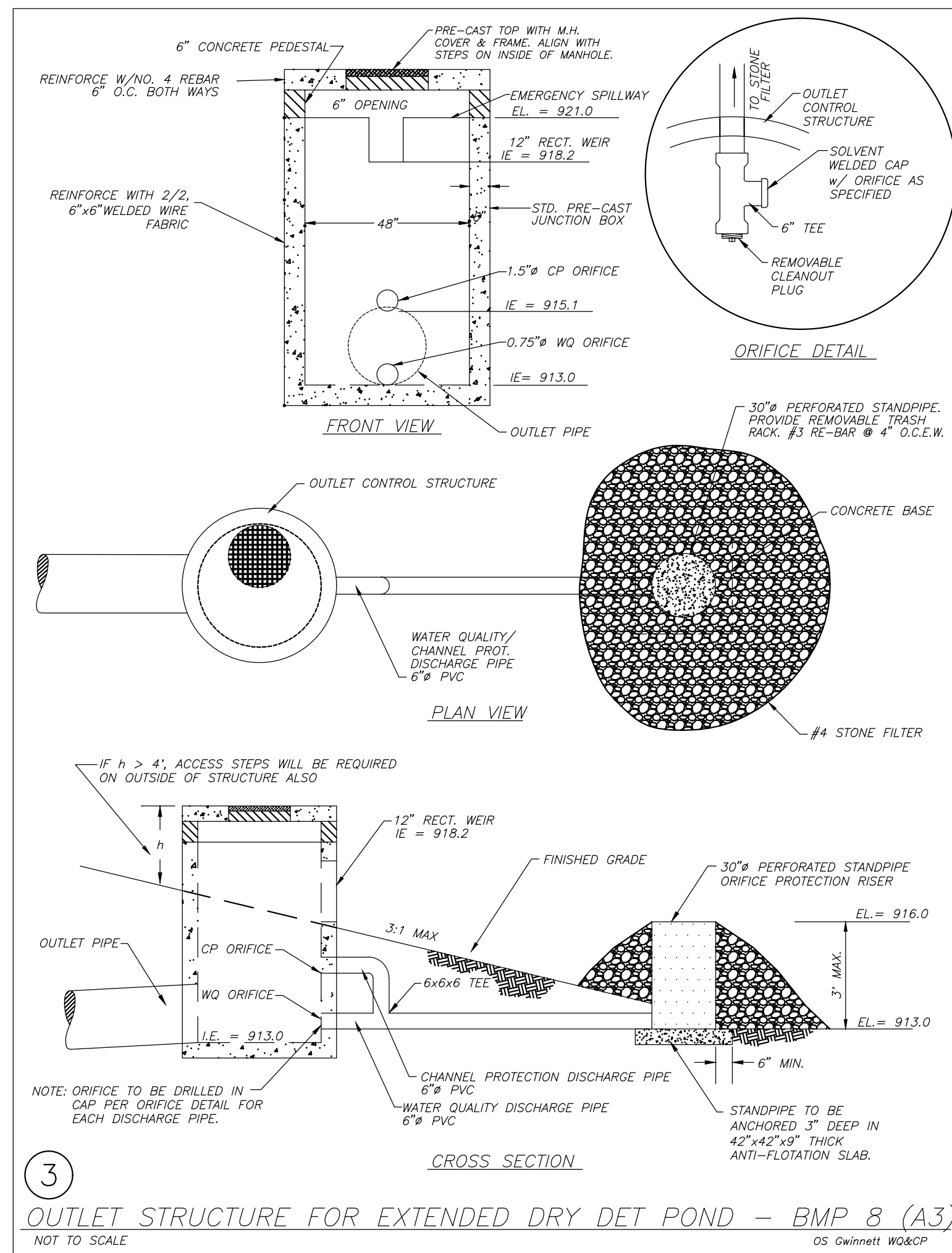
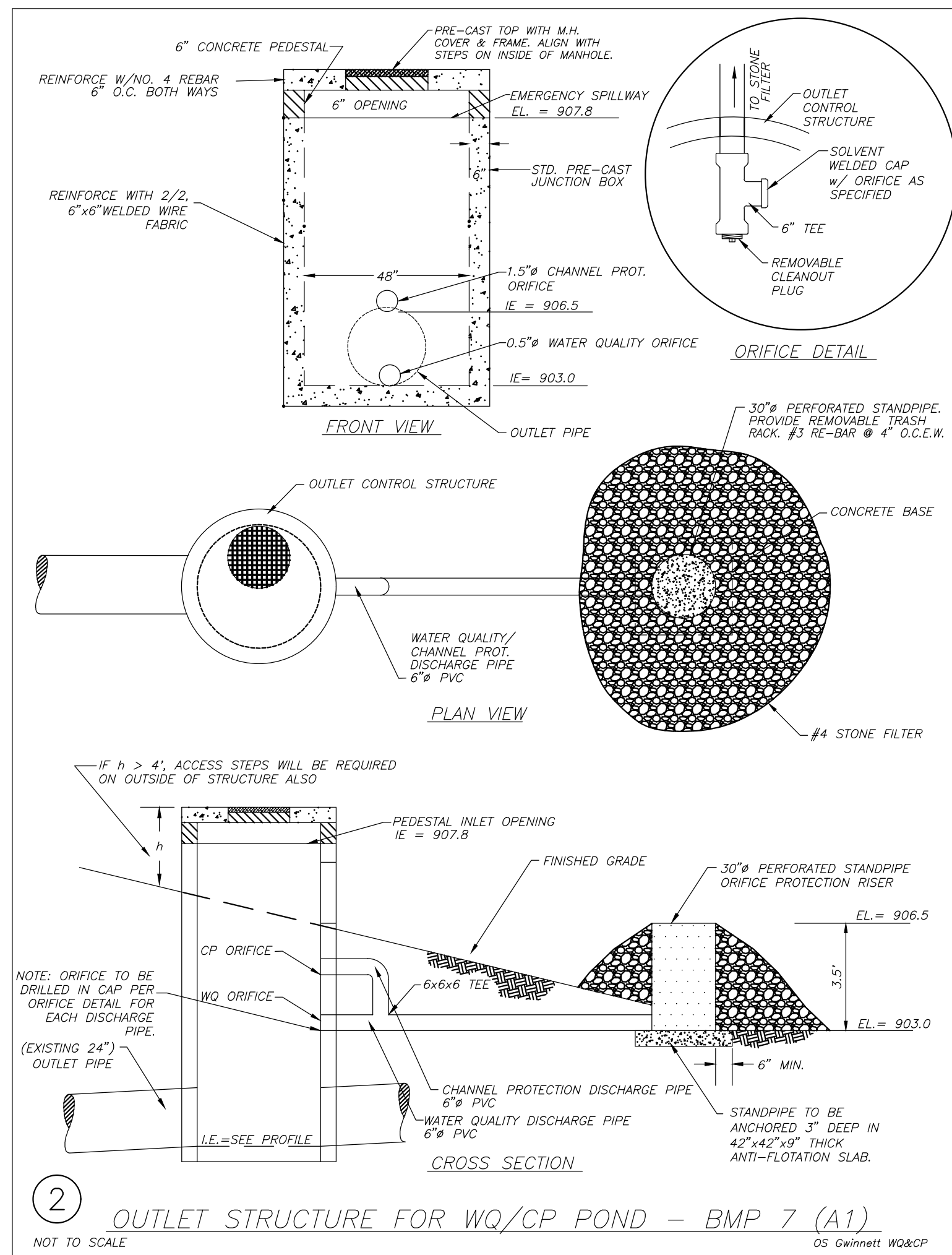
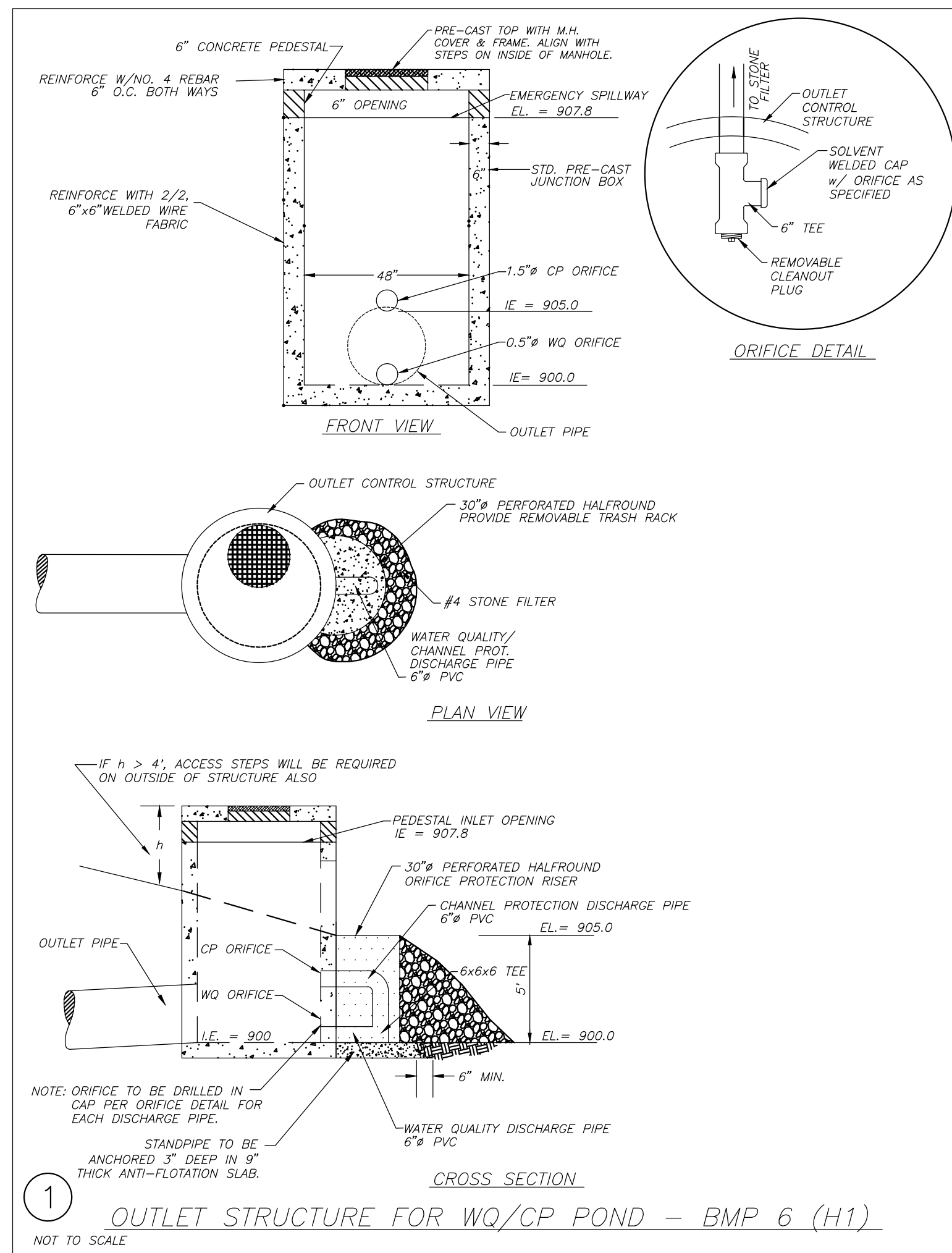


6  
STORM F  
Hor. Scale 1"=30'  
Vert. Scale 1"=3'

**EXISTING UTILITIES:**  
INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON IS BASED ON INFORMATION READILY AVAILABLE AT THE TIME OF PREPARATION. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE TAKEN INTO CONSIDERATION BY THOSE USING THIS DOCUMENT. THE LOCATION AND DISPOSITION OF UTILITIES SHOWN MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES AFFECTED BY HIS WORK PRIOR TO BEGINNING ANY CONSTRUCTION OR LAND DISTURBANCE.



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON UNLAWFULLY ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ASSIST IN ANY MANNER, IN ANY MANNER BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN ANY MANNER, THE ASSUMING PART THEREIN TO BE HIS OWN SEAL, AND THE SIGNATURE, ADDRESS BY TELEPHONE, HIS ADDRESS AND THE DATE OF SUCH ALTERATION, AND A PRECISE DESCRIPTION OF THE VIOLATION.

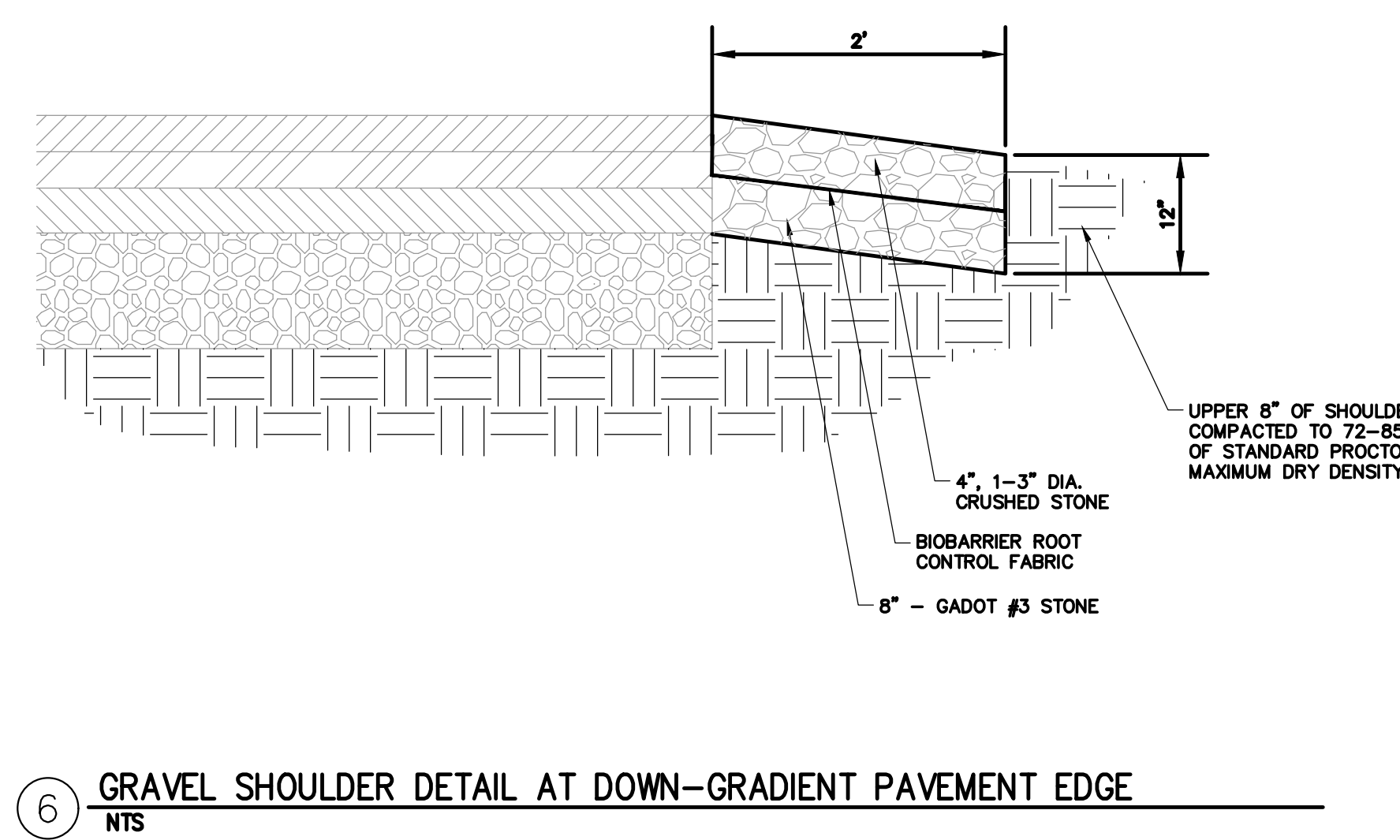
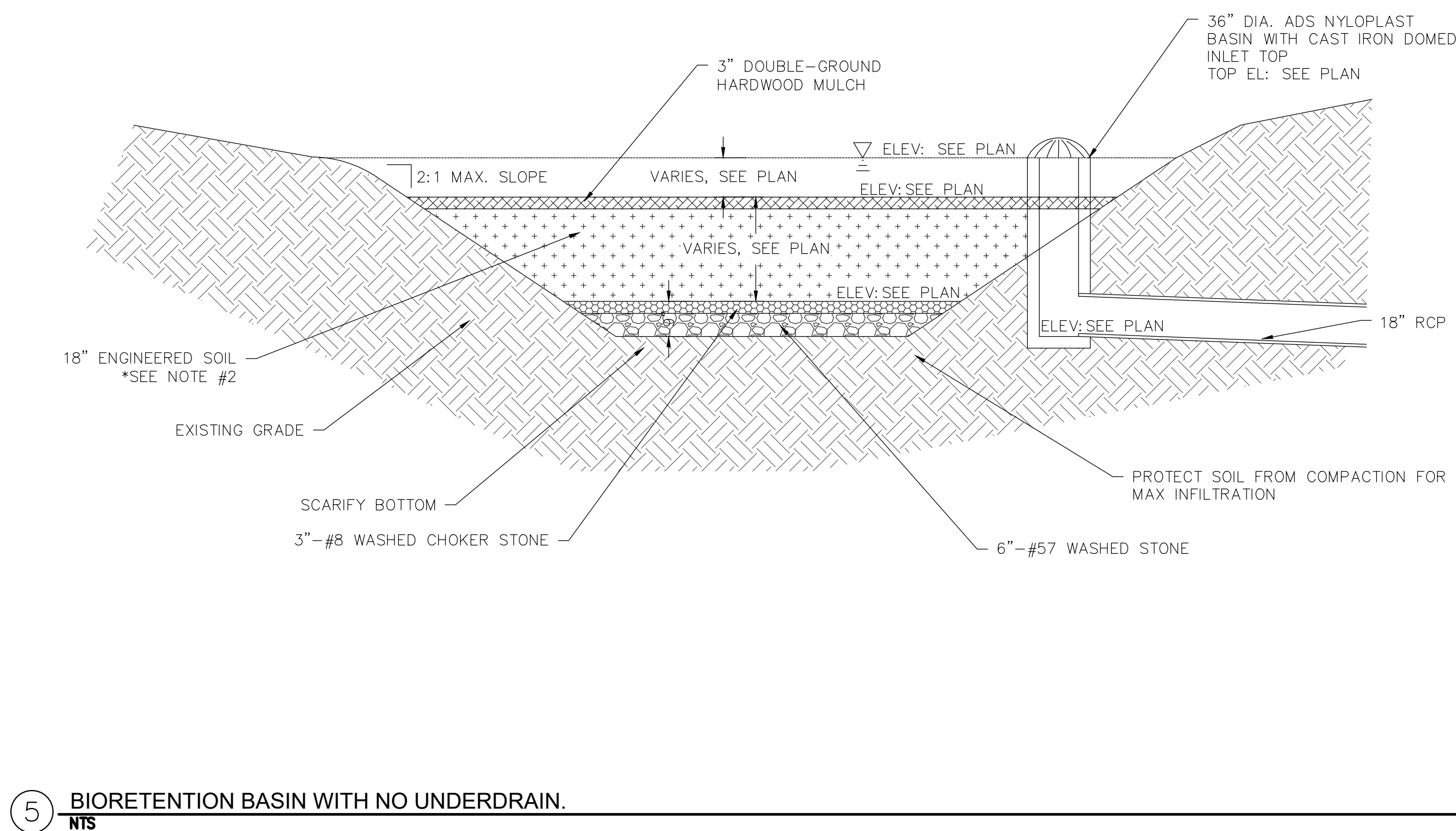


**NOTES:**

- GRAVEL BOTTOM
  - GRAVEL: 6" LAYER ASTM D488 SIZE NO.57 WASHED STONE AND SHOULD BE SEPARATED BY A THIN 3 INCH LAYER OF CHOKER STONE (ASTM D 448 SIZE NO. 8, 3/8" TO 1/8" OR ASTM D 448 SIZE NO. 89, 3/8" TO 1/16")
- ENGINEERED SOILS MUST MEET THE BIORETENTION SPECIFICATIONS IN THE PROJECT DOCUMENTS ONLY. SIEVE ANALYSIS AND SOIL COMPOSITION REPORT MUST BE SUBMITTED TO OWNER AND ENGINEER PRIOR TO INSTALLATION. ANY ENGINEERED FILL PLACED IN BIORETENTION AREA, PRIOR TO APPROVAL WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE. CONTACT SKIP SHORT RESOURCE GROUP FOR AID IN LOCATING LOCAL (ATLANTA) ENGINEERED FILL MEETING PROJECT SPECIFICATIONS. 770-519-9785
- INSTALLATION OF ENGINEERED SOILS MUST BE COMPLETED IN A MANNER THAT WILL ENSURE PRESERVATION OF THE INFILTRATIVE CAPACITY OF THE UNDERLYING SOILS. THE MOISTURE CONTENT OF THE SOIL SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT.
- TO PREVENT COMPACTION WITHIN THE LIMITS OF THE BASINS, ONLY HAND LABORERS, SMALL EXCAVATION HOES WITH WIDE TRACKS, LIGHT EQUIPMENT WITH TURF TIES, MARSH EQUIPMENT OR WIDE-TRACK LOADERS MAY BE USED. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE PERIMETER OF THE BIORETENTION FACILITY BEFORE, DURING, OR AFTER THE PLACEMENT OF THE BIORETENTION SOIL MIX. GROUND PRESSURE SHOULD NOT EXCEED 7 PSI.
- SOIL SURFACES SHALL BE SCARIFIED TO AERATE AND REDUCE SOIL COMPACTION. SOIL SHALL BE PLACED IN 6" LOOSE DEPTH LIFTS AND LIGHTLY HAND-TAMPED OR COMPACTED WITH A WATER-FILLED LANDSCAPE ROLLER, TO REDUCE POTENTIAL FOR EXCESSIVE SETTLING. NO OTHER MECHANICAL EQUIPMENT SHALL BE USED TO COMPACT THE ENGINEERED SOIL OR UNDERLYING SOILS.
- LOOSE SUBGRADE SOILS THAT HAVE BEEN COMPACTED OR SMEARED BY RAKING, DISKING OR TILLING TO A MINIMUM DEPTH OF 6 INCHES.
- UNIFORMLY GRADE BIORETENTION SOIL MIX TO ACHIEVE A SMOOTH SURFACE. DO NOT OVER-WORK OR EXCESSIVELY COMPACT BIORETENTION SOIL MIX. GRADE TO CROSS SECTIONS, THICKNESS AND ELEVATIONS INDICATED ON PLANS. SETTLING OF SOIL BY WALKING ON SURFACE, WORKING WITH HAND OR LOW GROUND PRESSURE EQUIPMENT (< 7 PSI) IS ACCEPTABLE.
- DURING EXCAVATION, HEAVY MACHINERY SHOULD NOT DRIVE OVER EXPOSED UNDERLYING SOILS.
- EXCAVATE IN DRY CONDITIONS AS OFTEN AS PRACTICABLE.
- USE TRACKED VEHICLES.
- EXCAVATE FINAL 9" 12" WITH TEETH OF BUCKET (DO NOT SMEAR) TO ENSURE BOTTOM IS SCARIFIED.
- SUBSOILS SHALL BE SCARIFIED (NOT COMPACTED) PRIOR TO PLACEMENT OF CLEAN-WASHED AGGREGATE SUBBASE.
- VEGETATION: BIORETENTION AREAS TO BE PLANTED AS SHOWN ON PLANTING PLAN.

**APPROVED BIORETENTION PLANTINGS:**

SHRUBS				
CA	CALLICARPA AMERICANA	BEAUTYBERRY	19	3 GAL
HQ	HYDRANGEA QUERCIFOLIA	OX LEAF HYDRANGEA	16	3 GAL
GROUND COVER				
AV	ANDROPOGON VIRGINICUS	BROOMSEDGE	164	1 GAL @ 18" O.C.
CL	CHAZZMANTHUM LATIFOLIUM	INLAND SEA OATS	223	1 GAL @ 24" O.C.
IV	IRS VERSICOLOR	BLUE FLAG RIS	390	1 GAL @ 18" O.C.
PA	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	121	1 GAL @ 24" O.C.
RH	RUDBECKIA HIRTA	BLACK-EYED SUSAN	249	1 GAL @ 18" O.C.
OTHER MATERIAL				
	AGED HARDWOOD MULCH		18,300 SF	4" DEPTH
	BERMUDA SOD	TIFWAY 419 BERMUDA	10,200 SF	



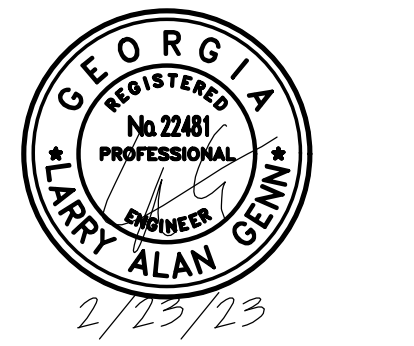
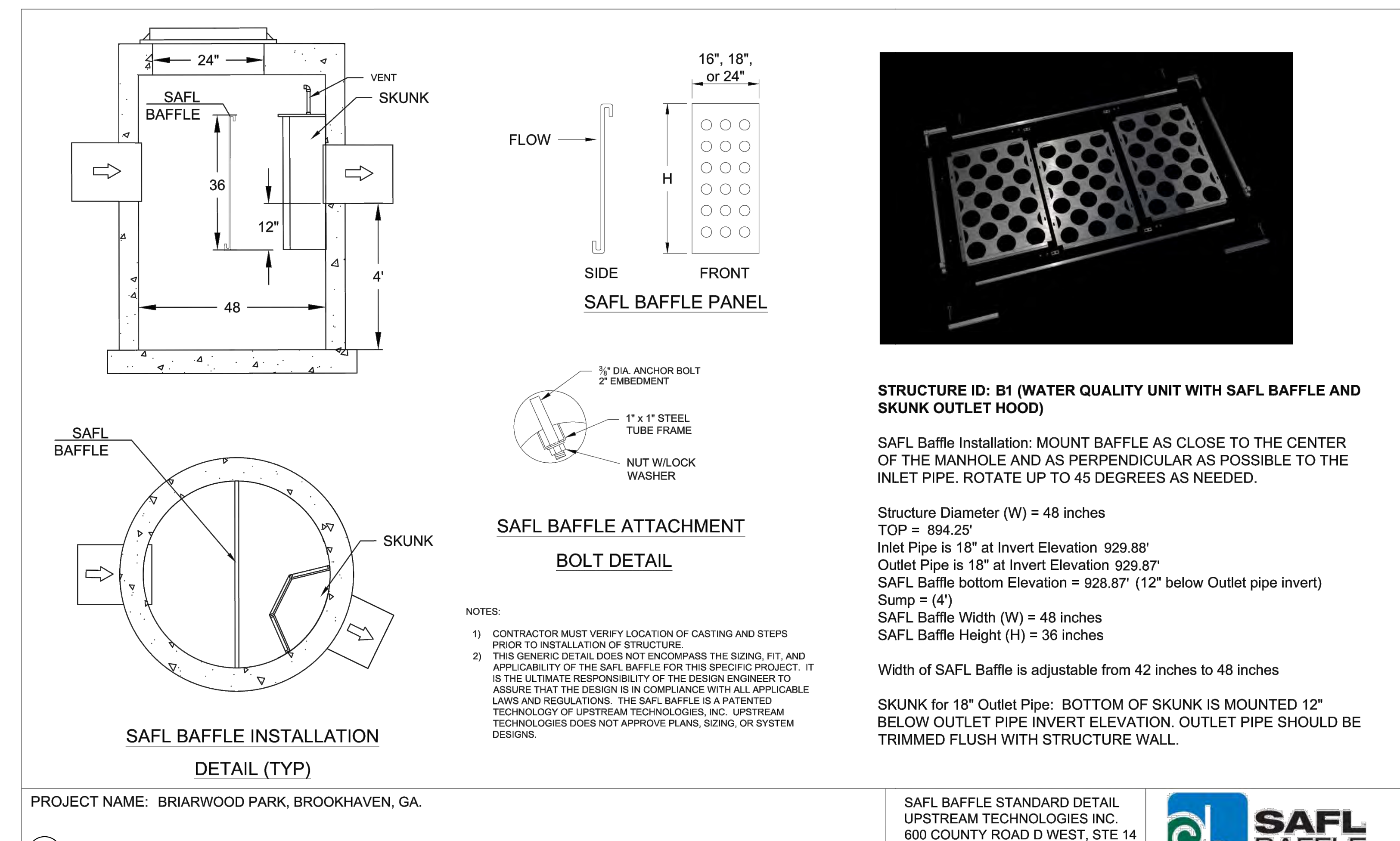
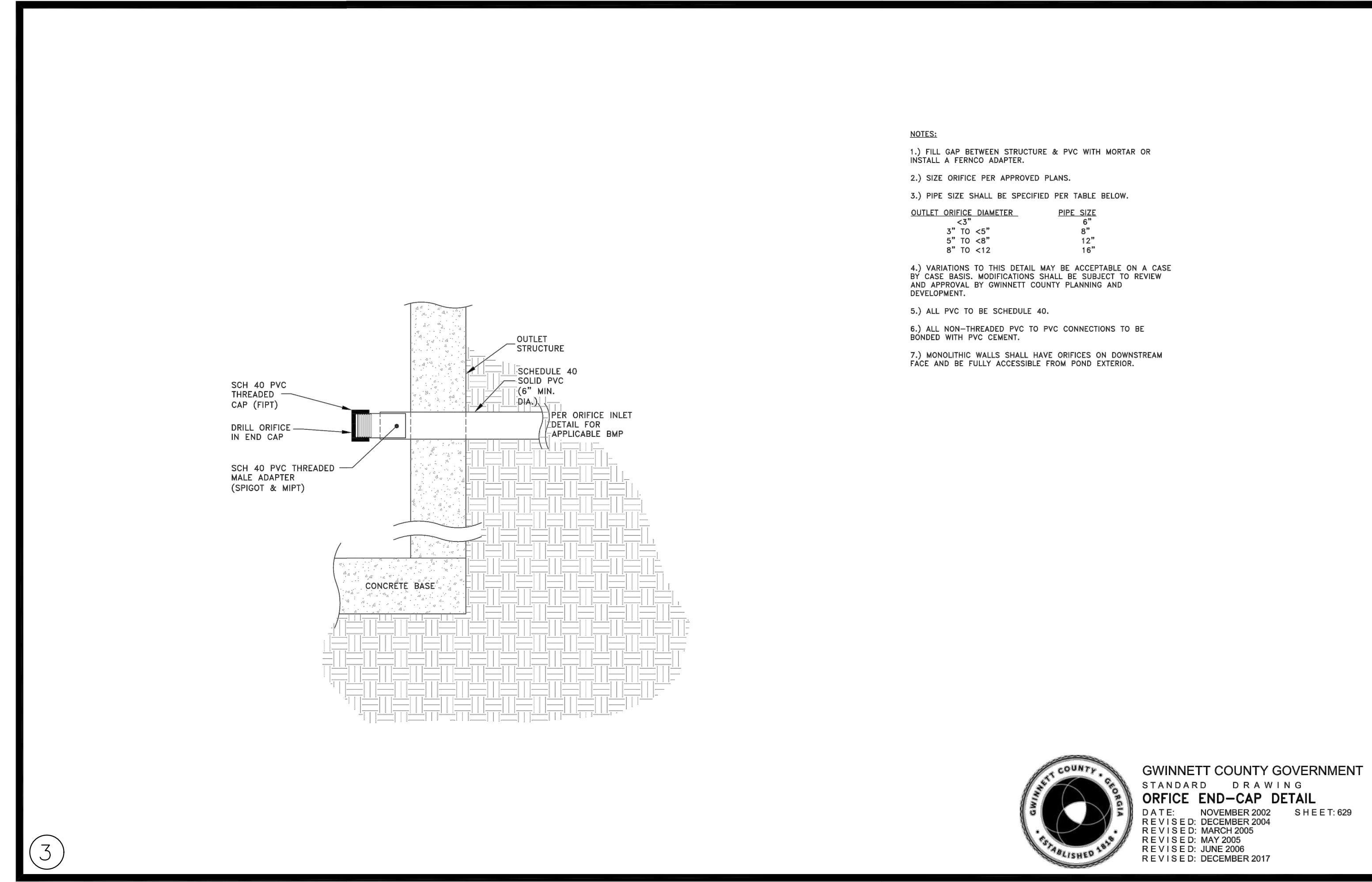
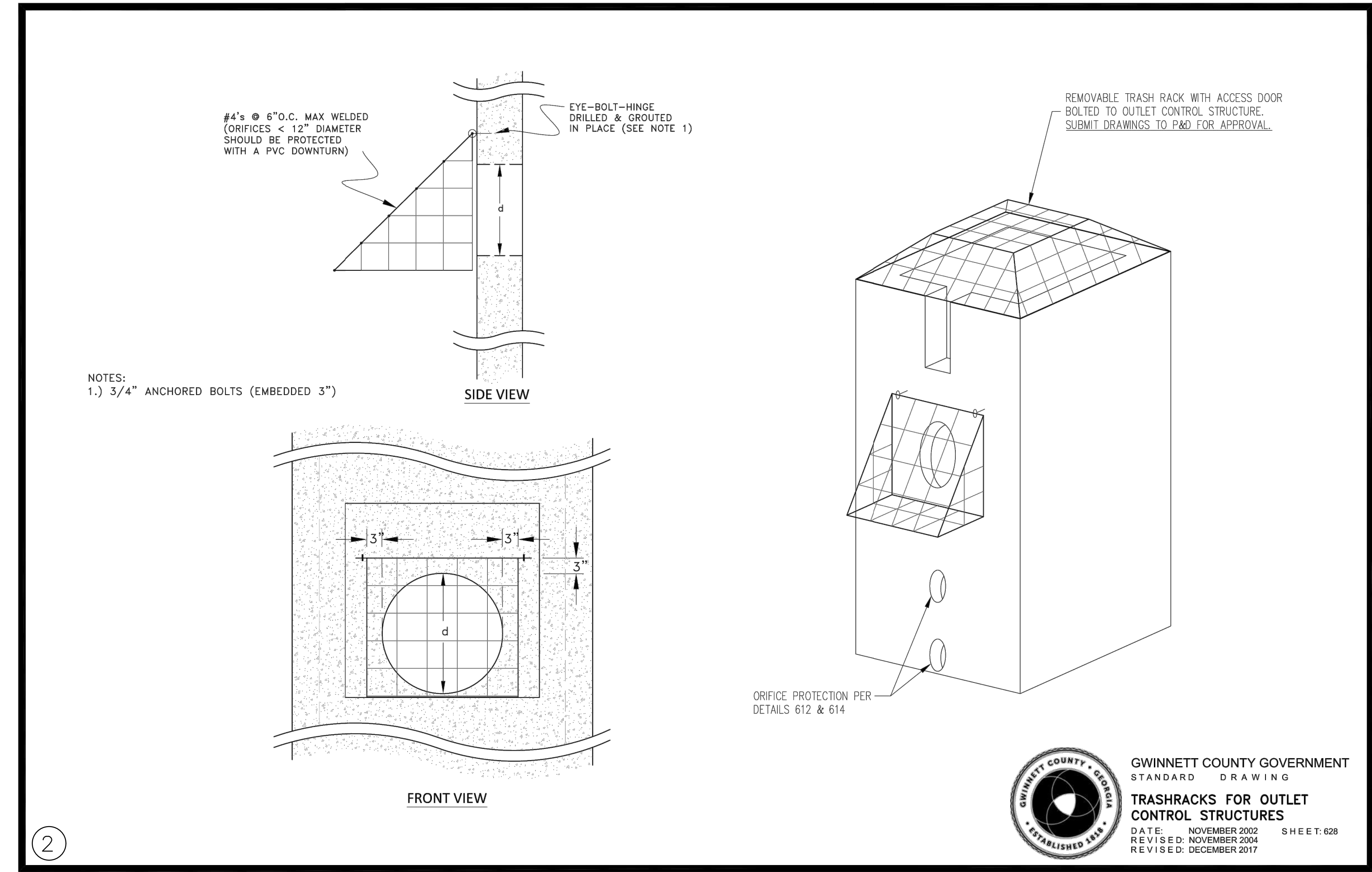
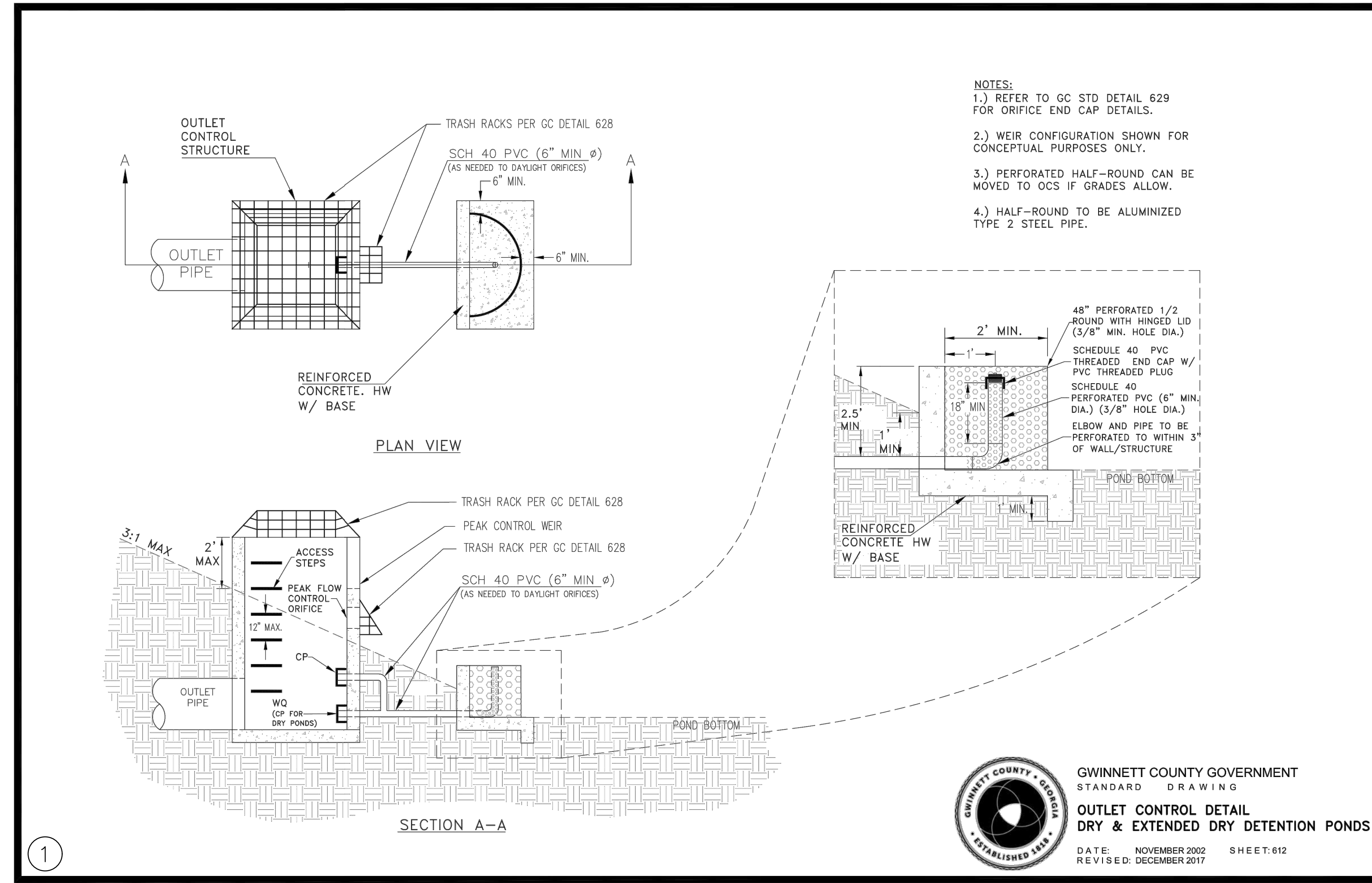
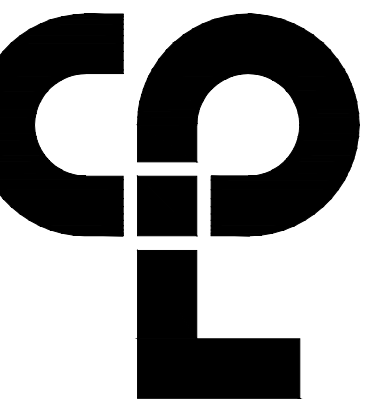
**SURVEY**  
 TERRAMARK LAND SURVEYING, INC.  
 1396 BELLS FERRY ROAD  
 MARIETTA, GEORGIA 30066  
 PHONE NO. (770) 421-1927  
 FAX. NO. (770) 421-0552  
 WWW.TERRAMARK.COM  
 C. O. A.# LSF000810

**SHEET INFORMATION**  
 Scale: 1" = 4'  
 Date: 12/01/2022  
 Drawn By: MJS  
 Created By: LAG  
 Drawing Title: STORM DETAILS I STRUCTURES



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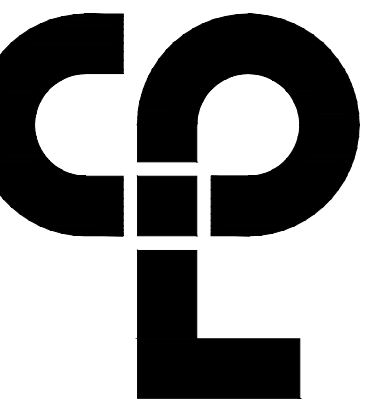




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PROJECT INFORMATION

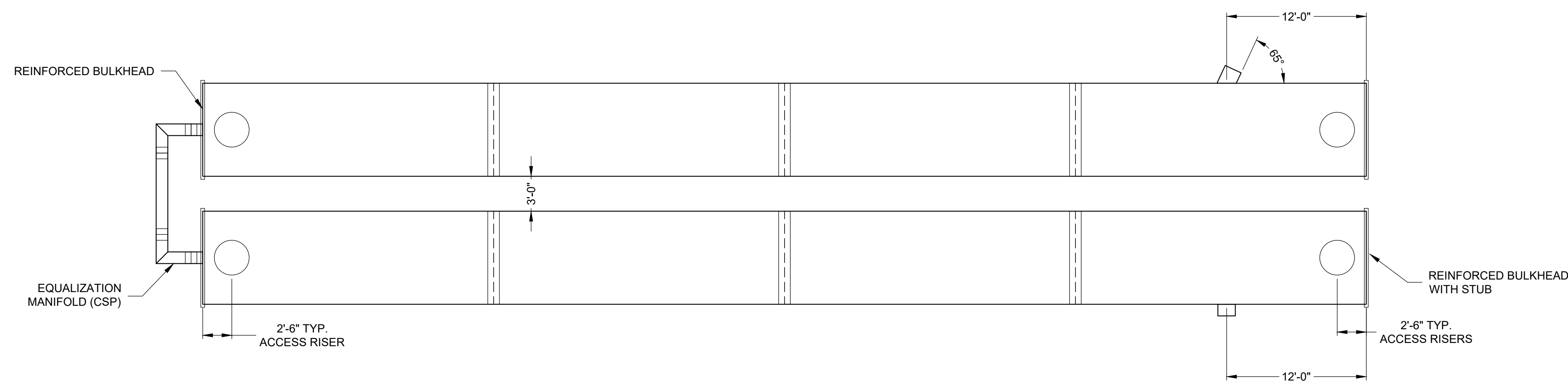
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Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

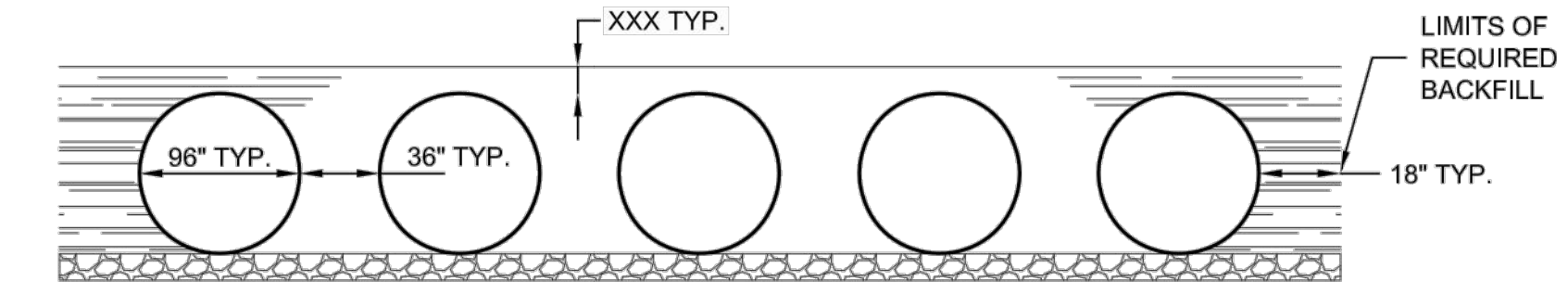
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BROOKHAVEN, GA 30319

REVISION SCHEDULE

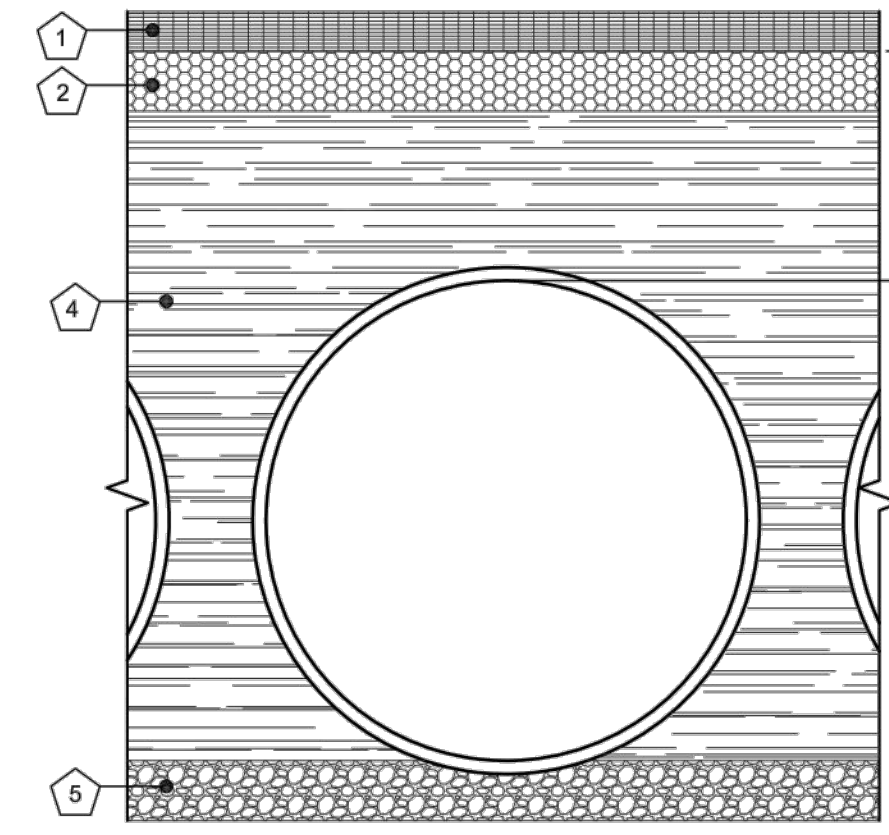
NO.	DATE	DESCRIPTION
1	01-24-2023	LDP CIP COMMENT #1
2	01-31-2023	BUILDING PERMIT
3	02-09-2023	LDP CIP COMMENT #2
4	03-27-2023	LDP CIP COMMENT #3



PLAN VIEW  
NOT TO SCALE



TYPICAL SECTION VIEW  
SCALE: N.T.S.



- KEY**
1. RIGID OR FLEXIBLE PAVEMENT
  2. GRANULAR ROAD BASE
  3. 12" MIN. FOR DIAMETERS THROUGH 96" 18" MIN. FOR DIAMETERS FROM 102" AND LARGER MEASURED TO TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT.
  4. SELECT GRANULAR FILL PER AASHTO M145 A1, A2 OR A3, OR APPROVED EQUAL PLACED IN 8" LIFTS (COMPACTED TO MIN. 90% STANDARD DENSITY PER AASHTO T99.)
  5. GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 4" TO 6" IN DEPTH

FOUNDATION/BEDDING PREPARATION

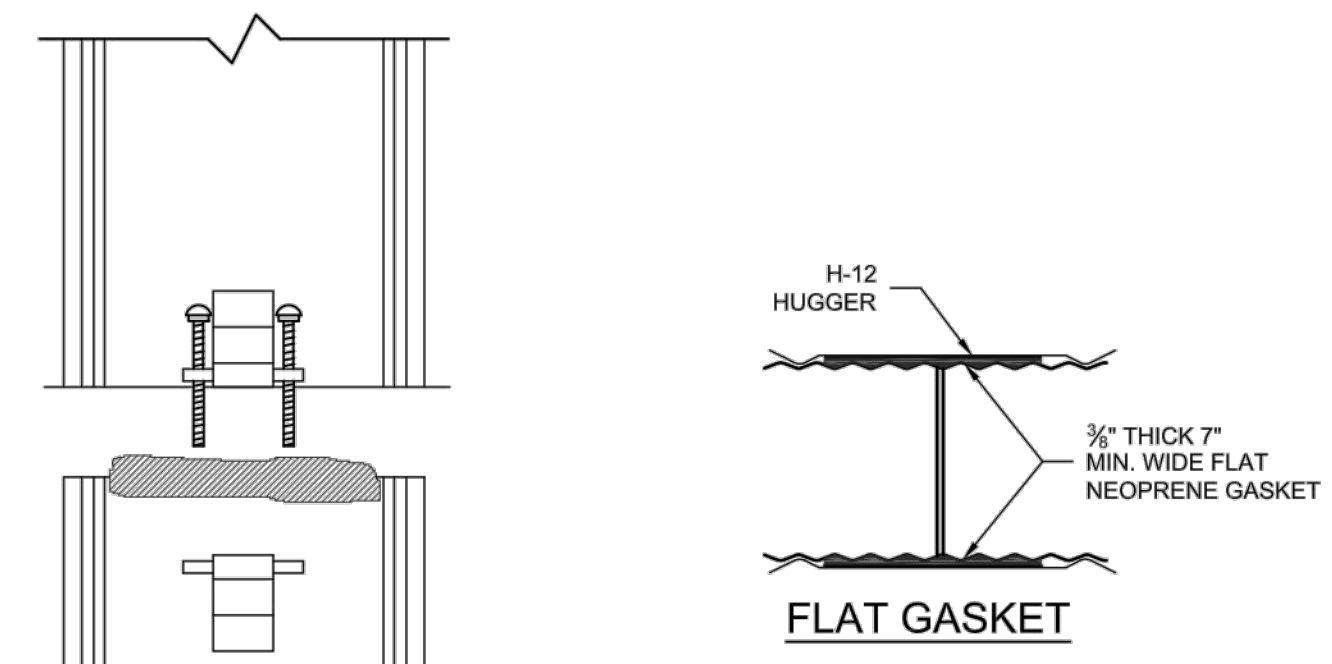
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, 4" - 6" OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

BACKFILL

THE BACKFILL SHALL BE AN A1, A2 OR A3 GRANULAR FILL PER AASHTO M145, OR A WELL-GRADED GRANULAR FILL AS APPROVED BY THE SITE ENGINEER (SEE INSTALLATION GUIDELINES). THE MATERIAL SHALL BE PLACED IN 6" LOOSE LIFTS AND COMPACTED TO 90% AASHTO T99 STANDARD PROCTOR DENSITY. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (6") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.

1 BACKFILL DETAIL  
C3 SCALE: N.T.S.

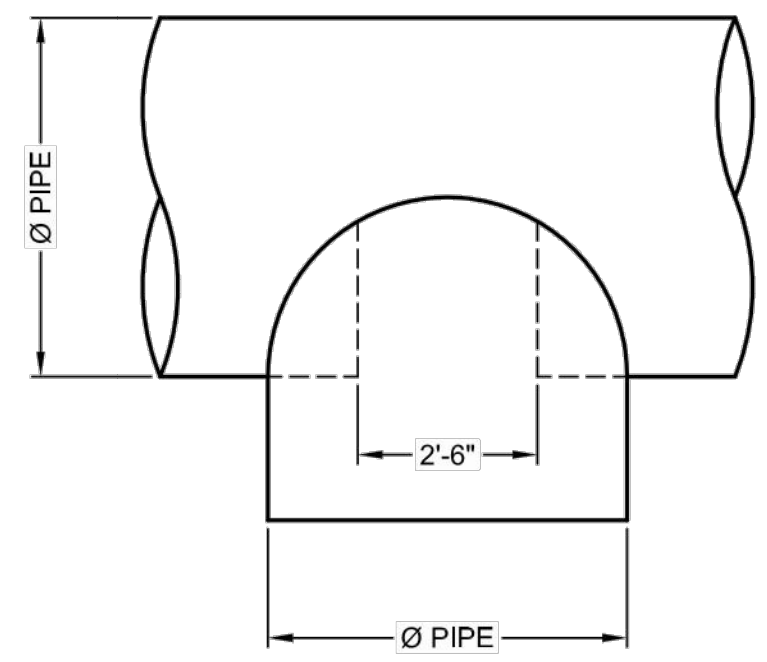


CONNECTION DETAIL  
SINGLE BOLT, BAR AND STRAP

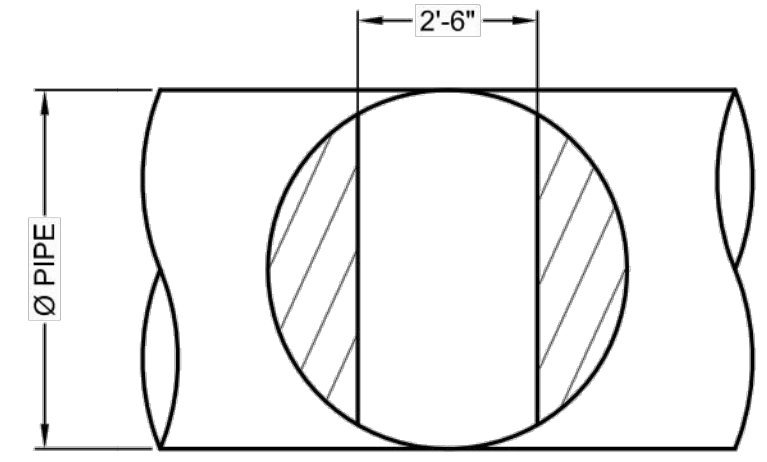
GENERAL NOTES

1. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:  
12" THRU 48", 1-PIECE  
54" THRU 96", 2-PIECE  
102" THRU 144", 3-PIECES
2. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS
3. REROLLED ANNUAL END CORRUGATIONS ARE NORMALLY 2 1/2" x 1/2". DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES

2 H-12 HUGGER BAND DETAIL  
C3 SCALE: N.T.S.



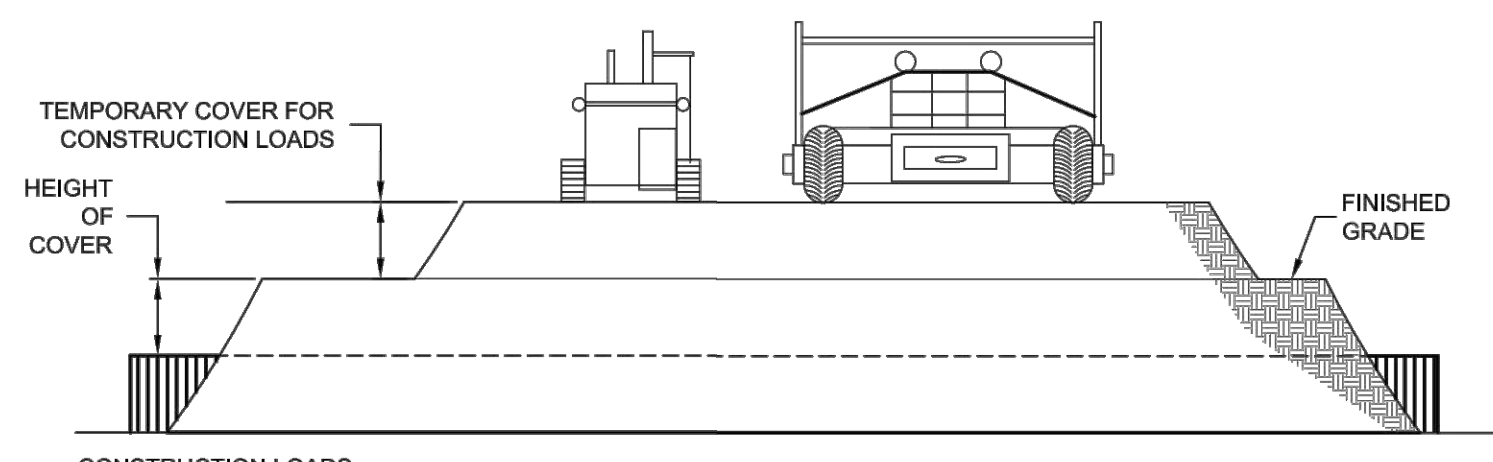
PLAN



FRONT

TYPICAL MANWAY DETAIL  
SCALE: N.T.S.

5 UNDERGROUND DETENTION SYSTEM

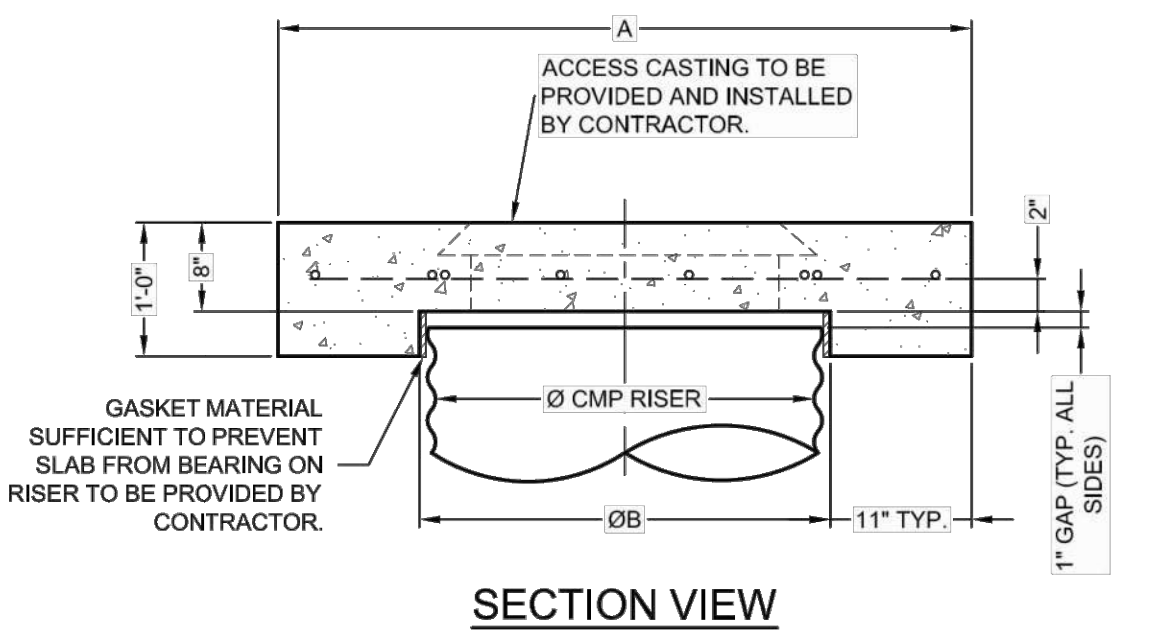


FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUM FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

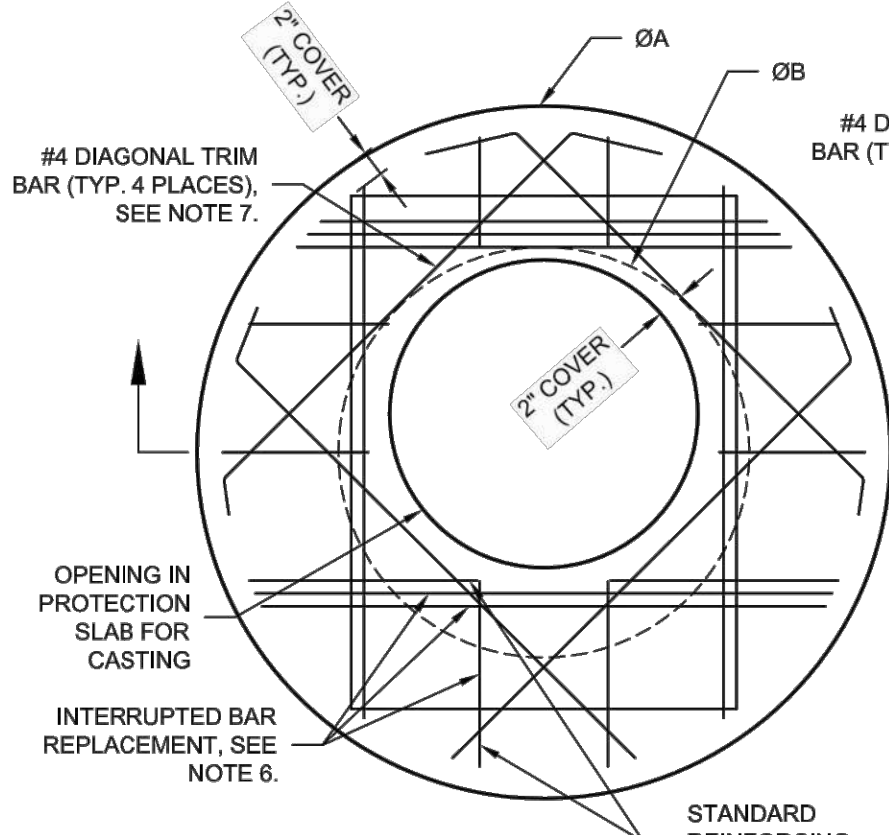
3 CONSTRUCTION LOADING DIAGRAM  
C4 SCALE: N.T.S.



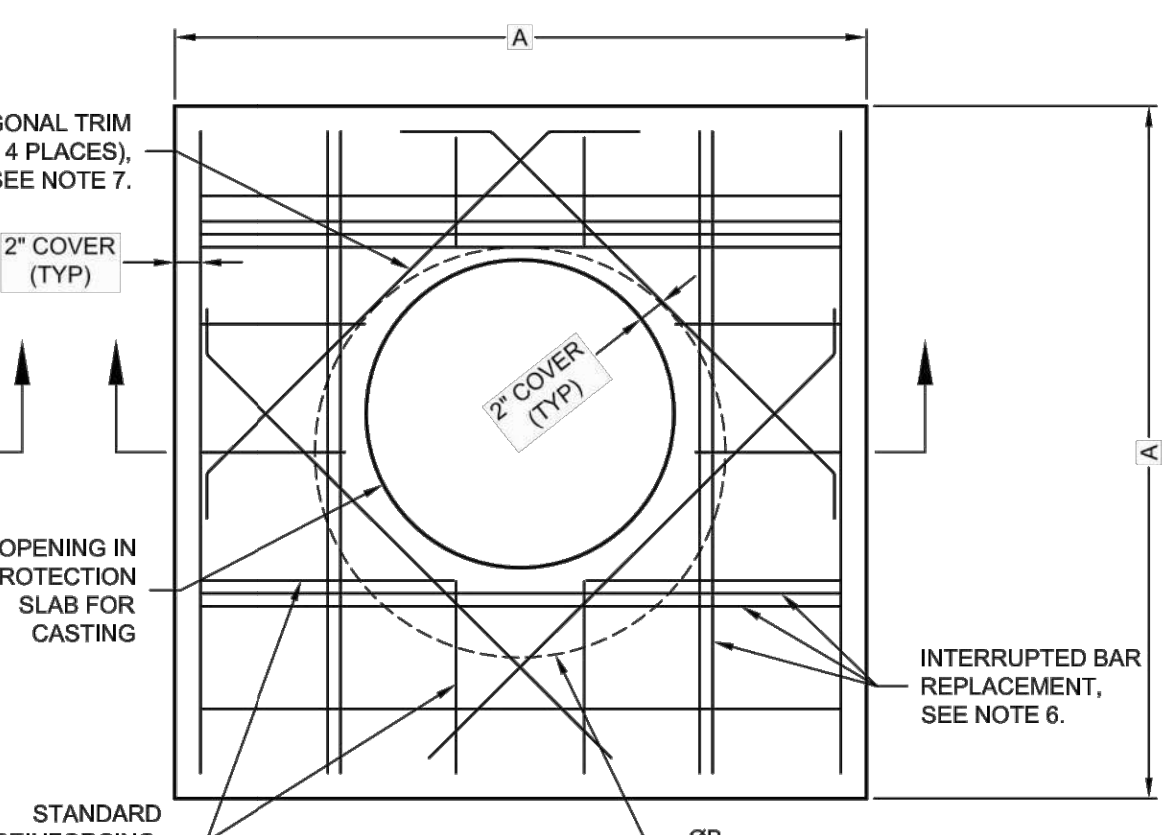
SECTION VIEW

REINFORCING TABLE				
Ø CMP RISER	A	Ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	Ø 4"	26"	#6 @ 12" OCEW	2,410
	4x4"		#5 @ 12" OCEW	1,760
30"	Ø 4-6"	32"	#6 @ 12" OCEW	2,120
	4-6" X 4-6"		#5 @ 12" OCEW	1,530
36"	Ø 5"	38"	#5 @ 10" OCEW	1,890
	5" X 5"		#5 @ 10" OCEW	1,350
42"	Ø 5-6"	44"	#5 @ 10" OCEW	1,720
	5-6" X 5-6"		#5 @ 9" OCEW	1,210
48"	Ø 6"	50"	#5 @ 8" OCEW	1,600
	6" X 6"		#5 @ 8" OCEW	1,100

\*\* ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

NOTES:

1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 3,500 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

4 MANHOLE CAP DETAIL  
C4 SCALE: N.T.S.

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

**SCOPE**  
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

**MATERIAL**  
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

**PIPE**  
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M88 OR ASTM A793. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

HANDLING AND ASSEMBLY

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA).

**INSTALLATION**  
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 28, DIVISION B OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

SURVEY  
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1396 BELLS FERRY ROAD  
MARIETTA, GEORGIA 30066  
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C. O. A.# LSF000810



SHEET INFORMATION

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Drawn By: MSJ  
Checked By: LAG  
Drawing Title: STORM DETAILS IV UNDERGROUND DETENTION

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Plotted By: Catherine Newberry

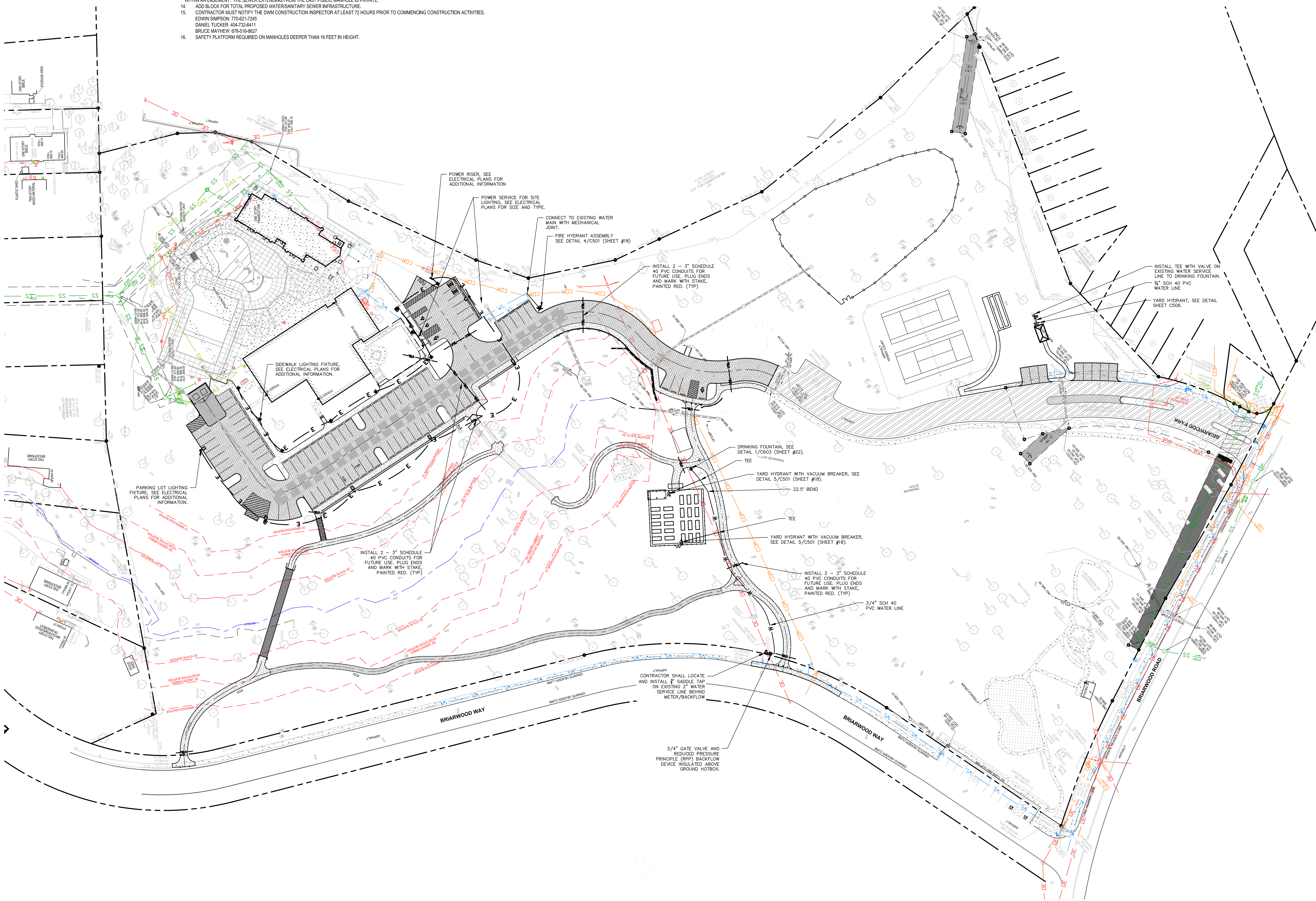
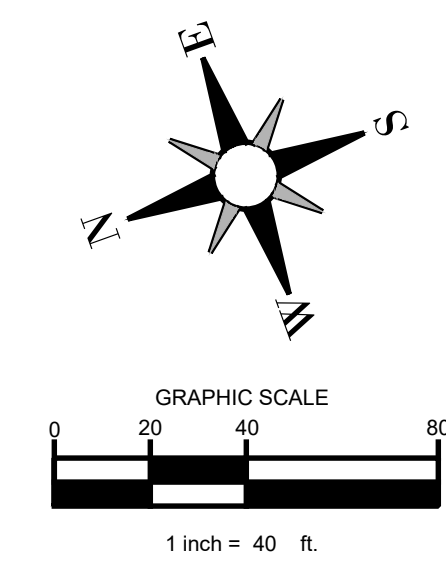


**DEKALB COUNTY DEPT OF WATER MANAGEMENT NOTES:**

1. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.
2. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT" PLANS AND "FINAL PLANS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.
3. PROJECTS INVOLVING CONSTRUCTION OF TOWNHOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
4. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER AND SEWER ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
5. FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.
6. CONTRACTOR MUST CLEAN AND T.V. SANITARY SEWER LINES AFTER CONNECTIONS AREA MADE TO THE EXISTING SEWER TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
7. THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.).
8. WATER & SEWER DEPT. REQUIRES THAT A BACKFLOW PREVENTER DEVICE BE INSTALLED (IF CURRENTLY EXISTING) ON EACH DOMESTIC OR FIRE SERVICE LINE, AND ANY OTHER TYPE OF WATER SERVICE CONNECTION.
9. POTABLE WATER MAINS SHALL MAINTAIN A TEN FOOT HORIZONTAL AND EIGHTEEN INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.
10. GRAVITY SEWER LINE MATERIAL SHALL BE PVC (SDR35) OR DIP (CLASS 350).
11. PROVIDE EASEMENT PLAT AND DEED FOR REVIEW FOR ALL SANITARY SEWER AND WATER EASEMENTS (AFTER CONSTRUCTION AND WITH AS-BUILTS).
12. WATER AND SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES: NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE. 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER AND SEWER PLAN APPROVAL, AS WELL AS CERTIFICATE OF OCCUPANCY COMPLETION.
13. ONSITE WATER IS PRIVATE. EXISTING PUBLIC SEWER MAINS EXIST ONSITE. A PORTION OF THE NEW SEWER EXTENSION IS PUBLIC AND WILL BE LOCATED WITHIN AN EASEMENT. THE SEWER EXTENDING FROM THE LAST PUBLIC MANHOLE IS PRIVATE.
14. ADD BLOCK FOR TOTAL PROPOSED WATERSANITARY SEWER INFRASTRUCTURE.
15. CONTRACTOR MUST NOTIFY THE DWM CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.  
EDWIN SIMPSON: 770-821-7245  
DANIEL TUCKER: 404-732-6411  
BRUCE MAYHEW: 678-516-8627
16. SAFETY PLATFORM REQUIRED ON MANHOLES DEEPER THAN 16 FEET IN HEIGHT.

**BACKFLOW PREVENTION NOTES:**

1. ALL REQUIRED BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PER DCDWM STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUTSIDE OF PUBLIC RIGHT-OF-WAY, DEKALB COUNTY WATER LINES EASEMENTS, WATER METER EASEMENTS AND ANY OTHER DEKALB COUNTY AND UTILITY COMPANIES EASEMENTS.
2. INSTALLATION OF BACKFLOW PREVENTION DEVICES INSIDE OF THE BUILDING IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM BACKFLOW PREVENTION DIVISION OF DCDWM.
3. CALL (404)678-4075 FOR BACKFLOW PREVENTION INSPECTION PRIOR TO INSTALLING ANY BACKFLOW PREVENTION DEVICES.

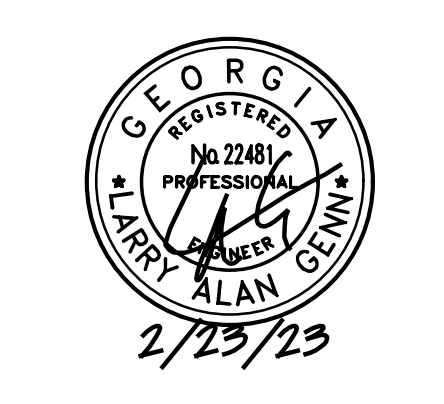


**PROJECT INFORMATION**

Project Number	15991.00
Client Name	CITY OF BROOKHAVEN
Project Name	BRIARWOOD PARK
Project Address	2235 BRIARWOOD WAY NE BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

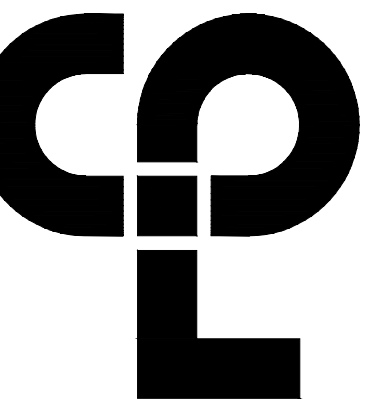
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2	01-31-2023	BUILDING PERMIT
3	02-09-2023	LDP CIP COMMENT #2
4	03-27-2023	LDP CIP COMMENT #3



**SHEET INFORMATION**

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 Plotted By: Matt Sistrunk



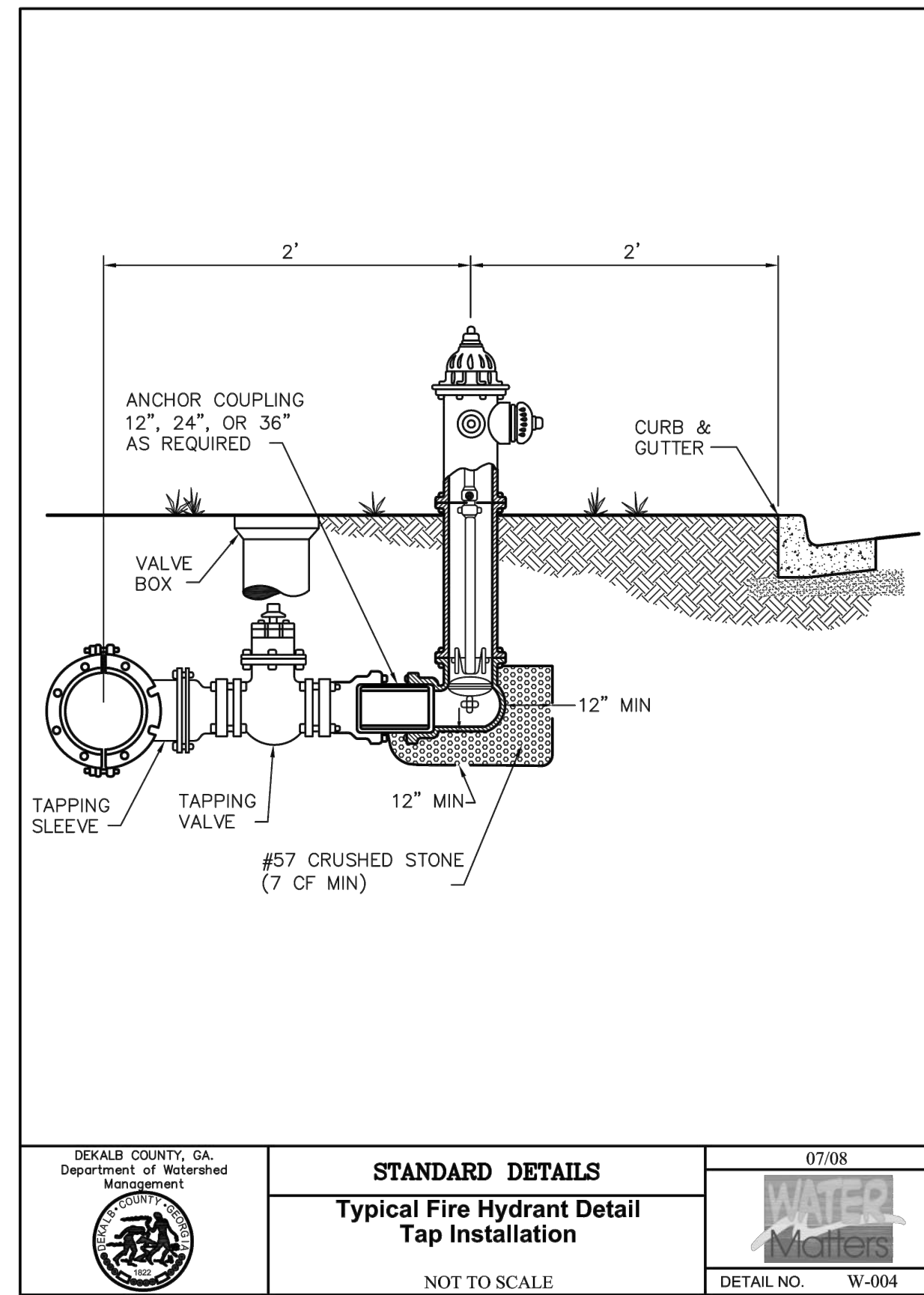
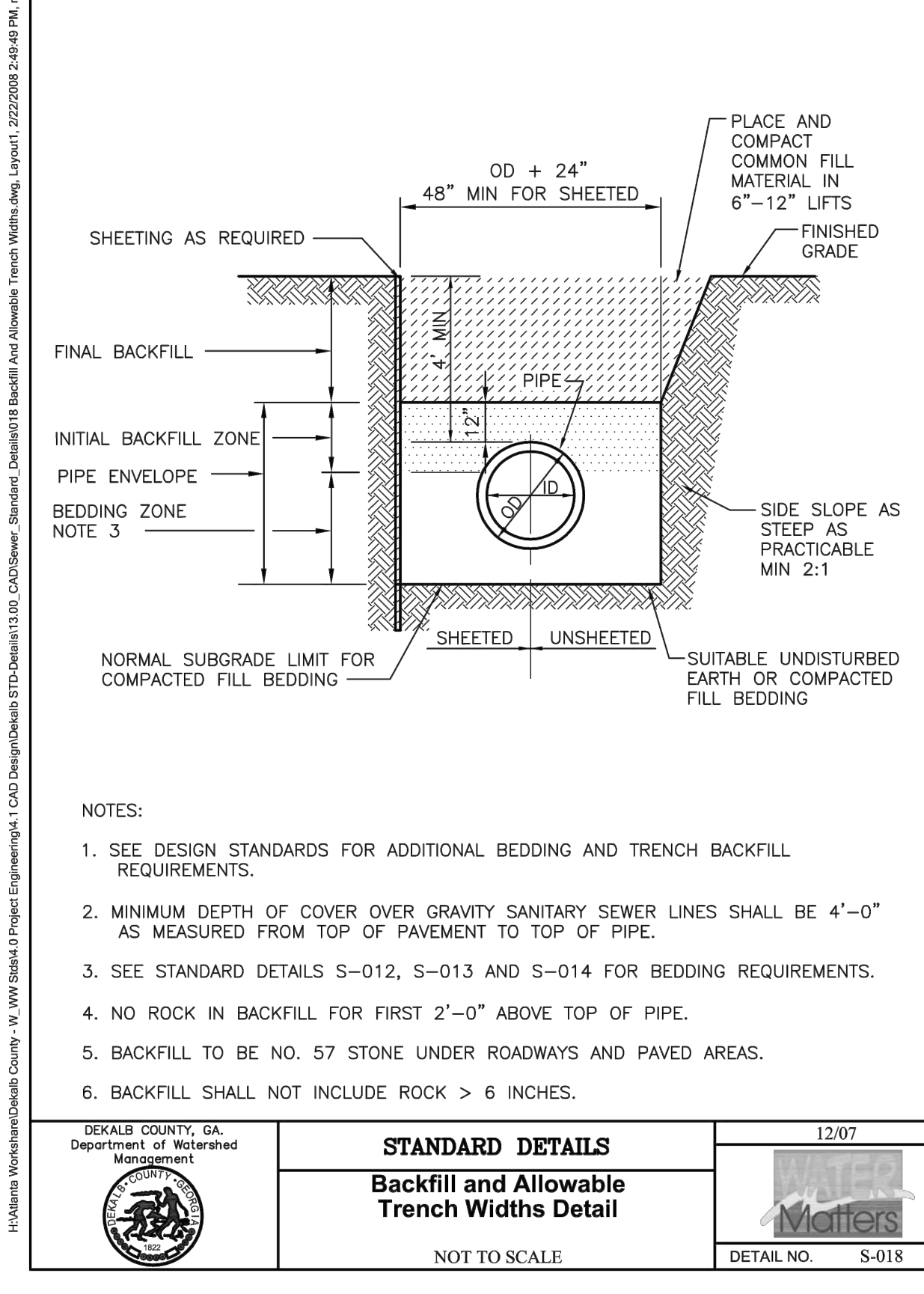
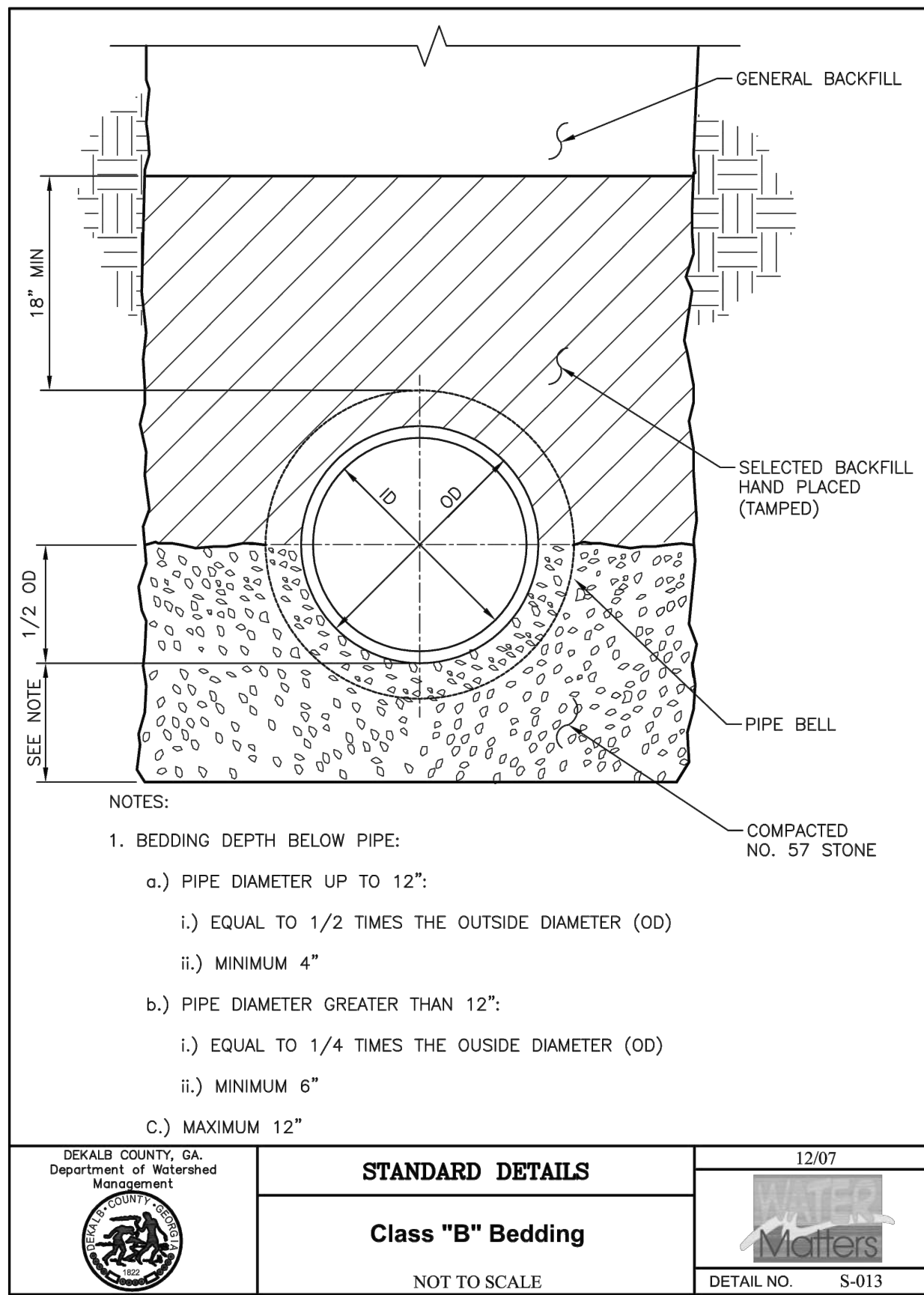
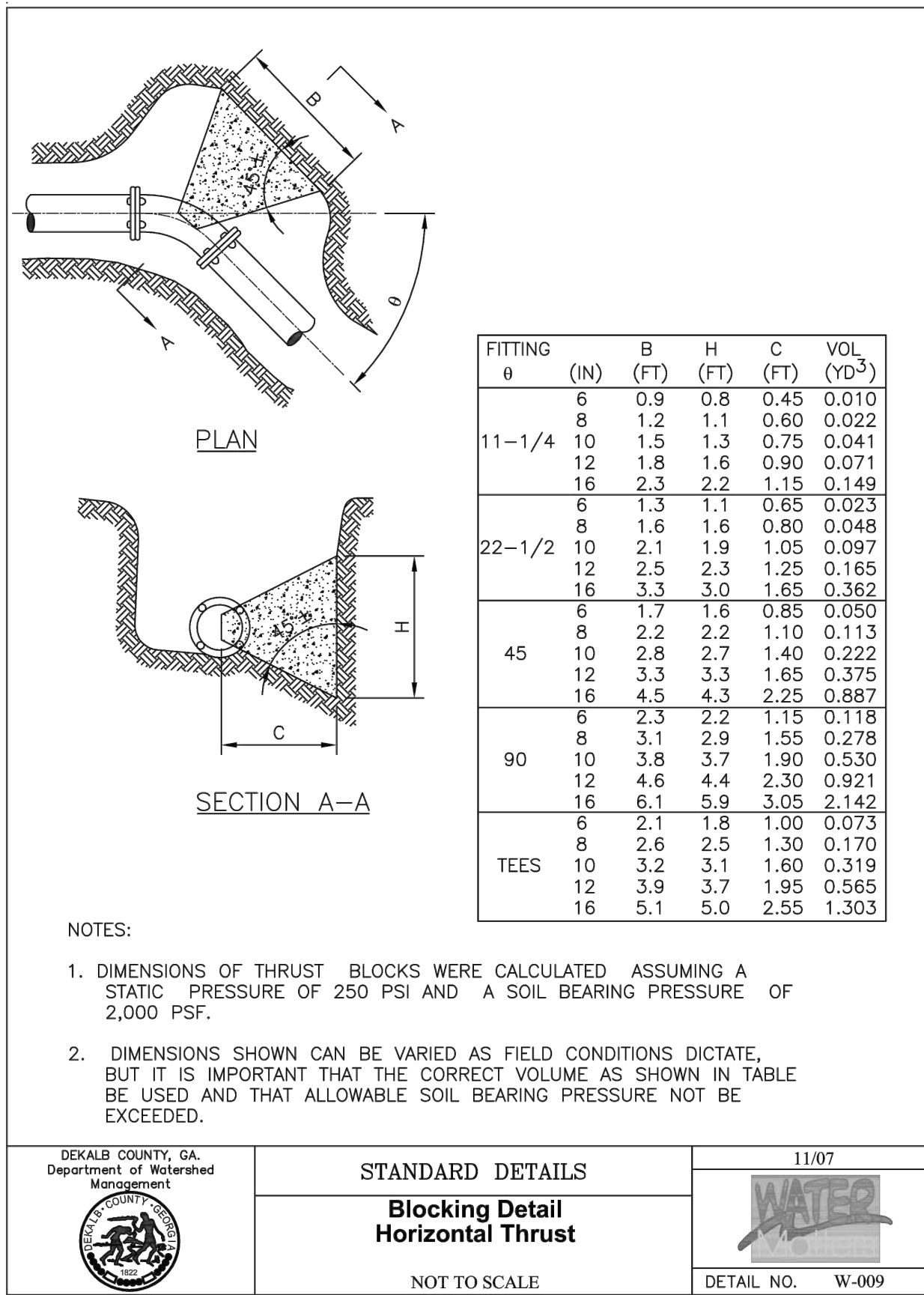
**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev. No.	Date	Description
1	01-24-2023	LSF CIP COMMENT #1
2	01-30-2023	REVISION PERMIT
3	02-03-2023	LSF CIP COMMENT #2
4	03-27-2023	LSF CIP COMMENT #3

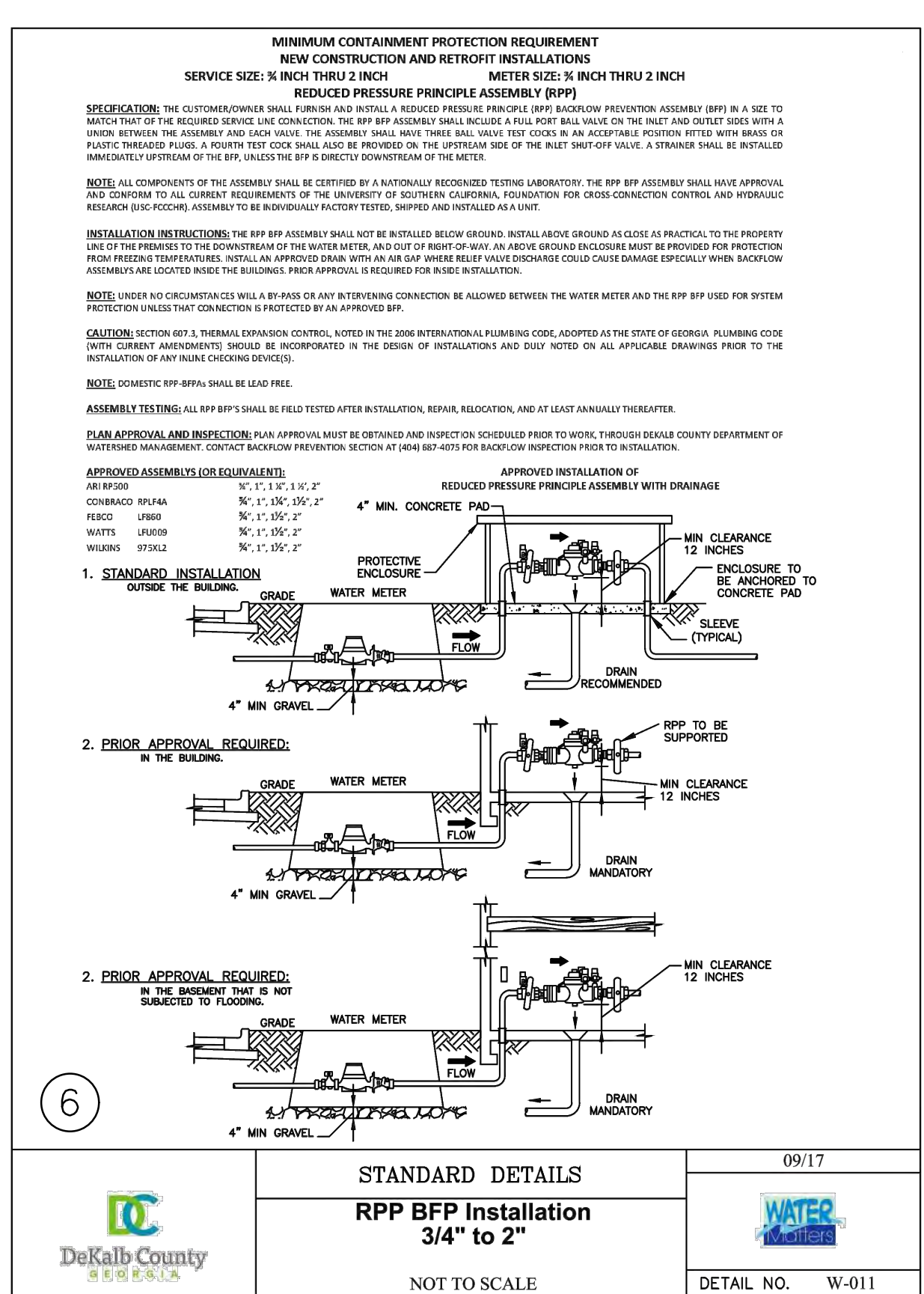
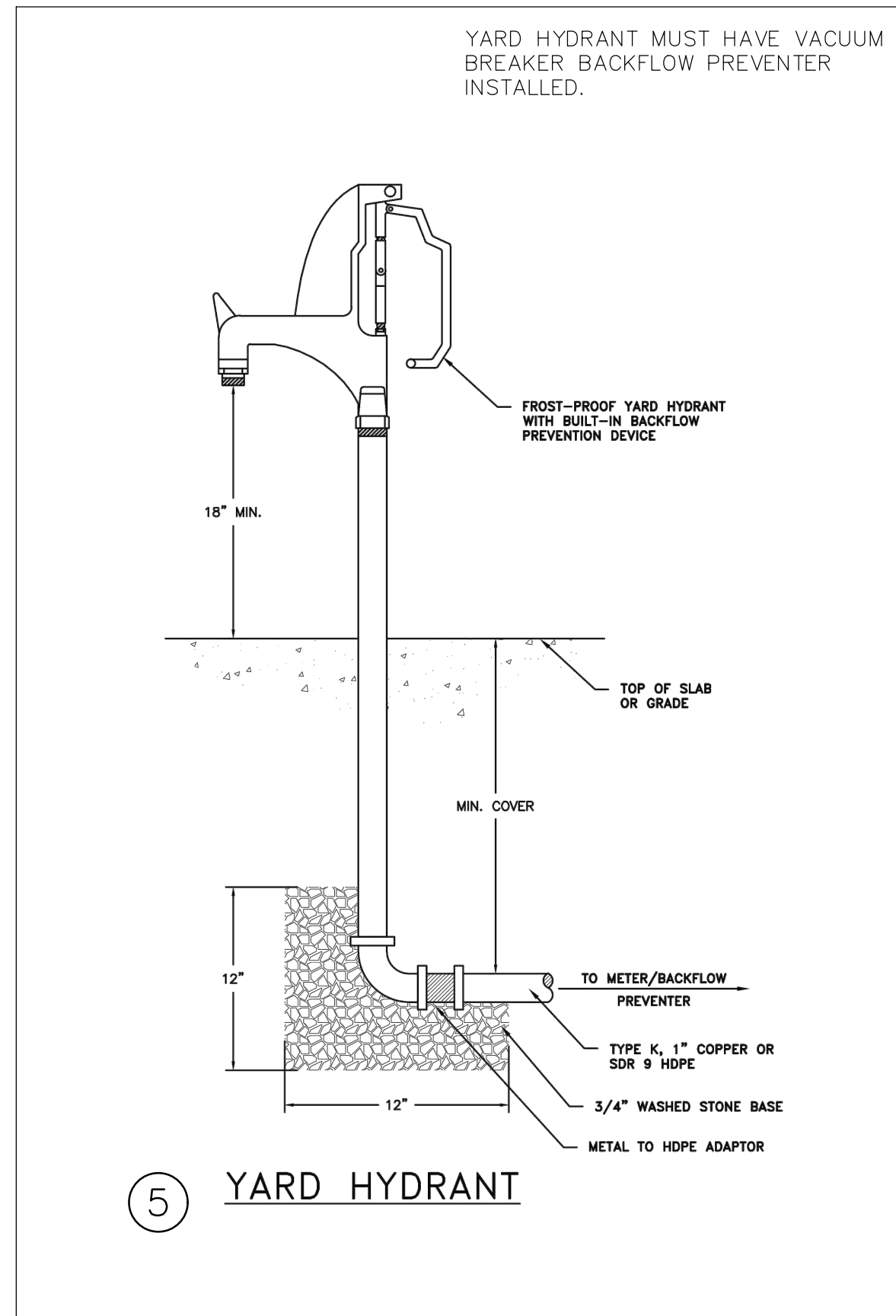


1

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**SHEET INFORMATION**

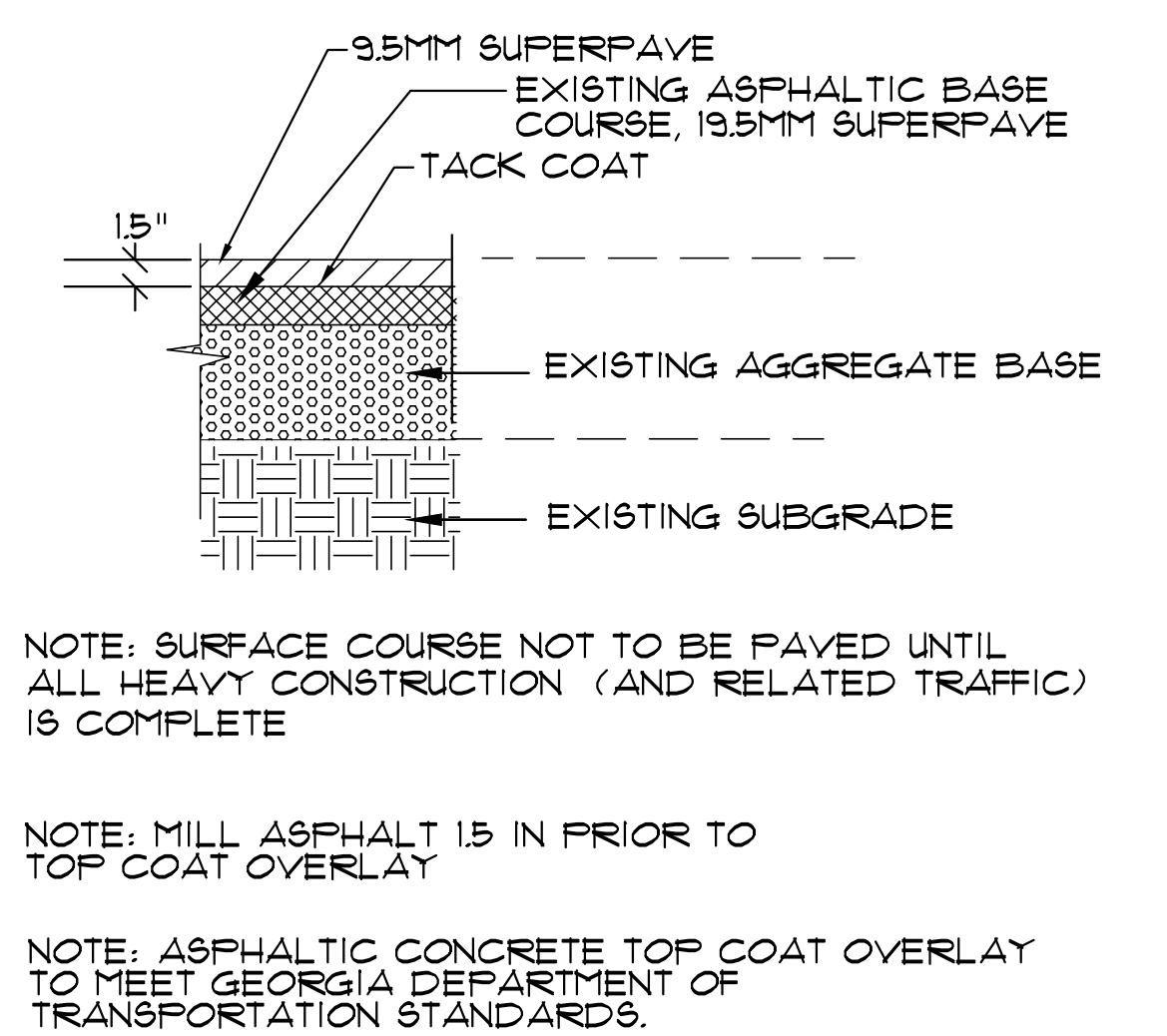
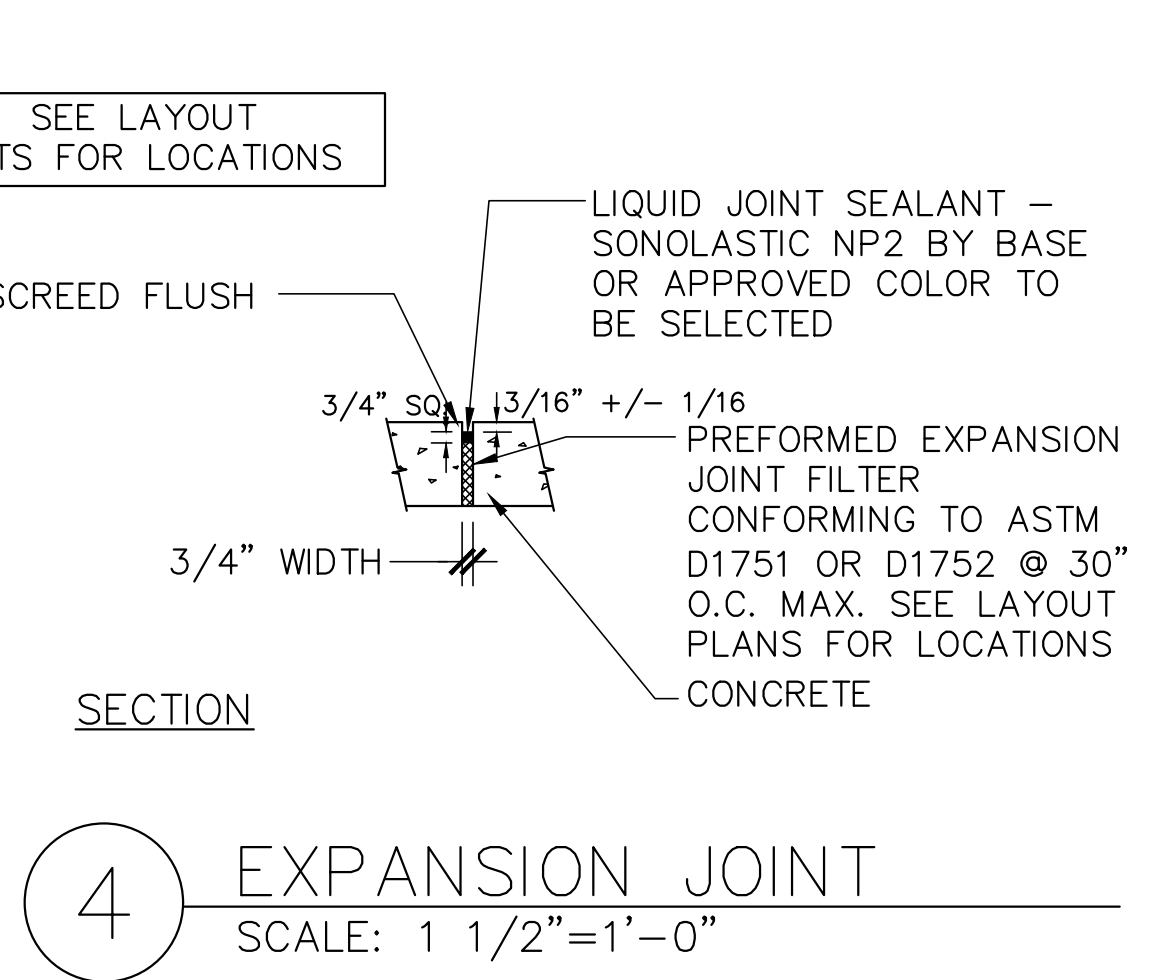
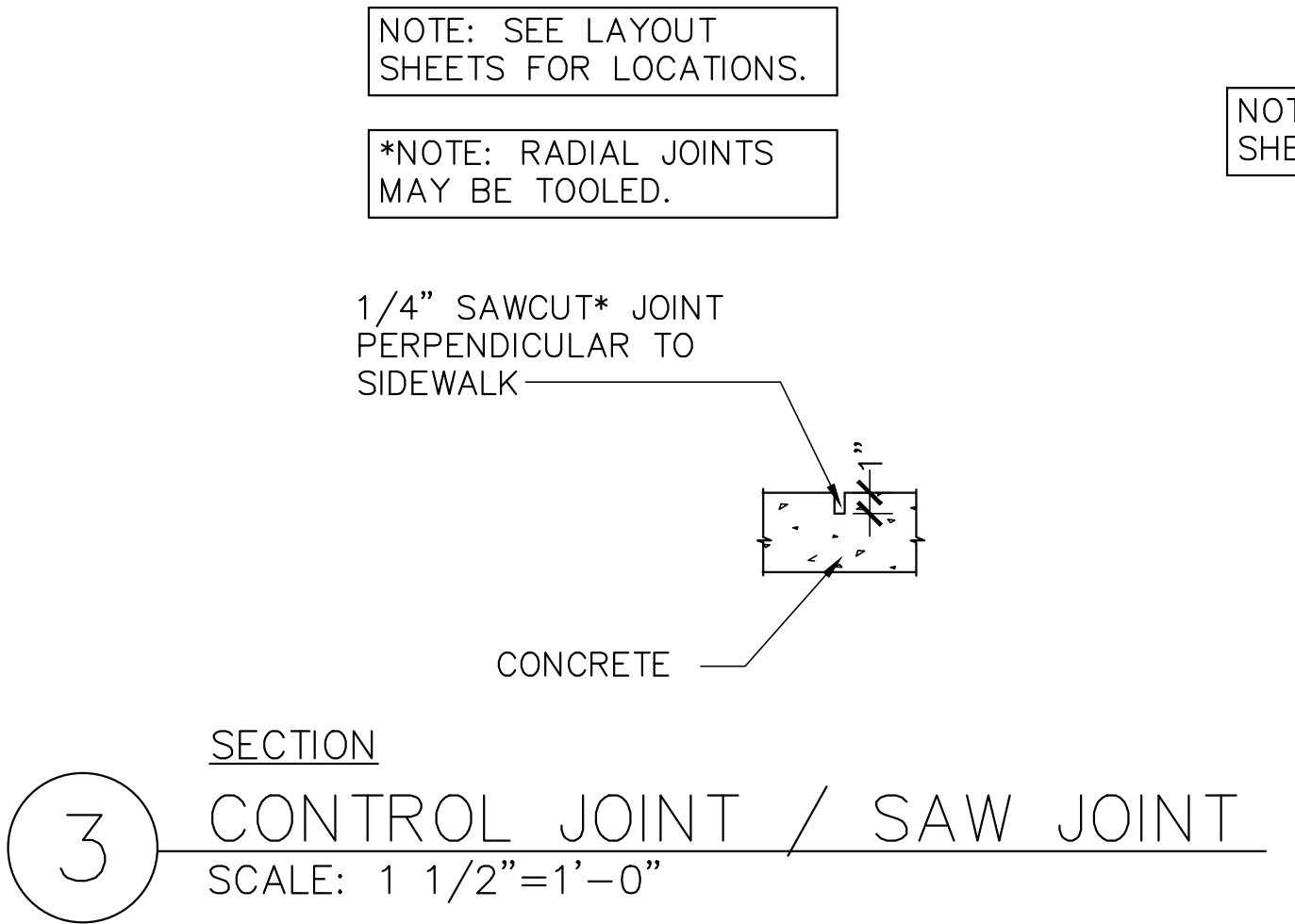
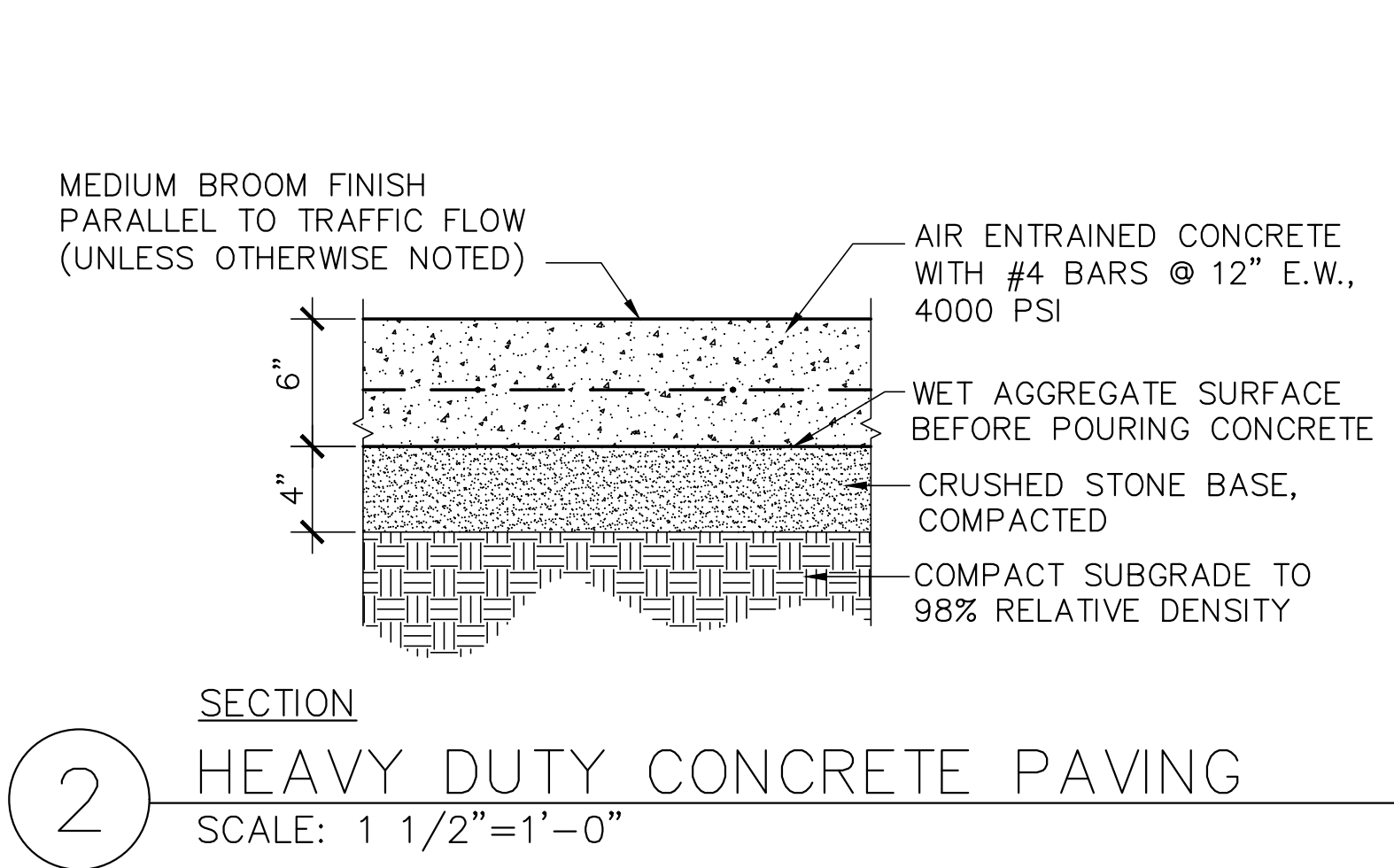
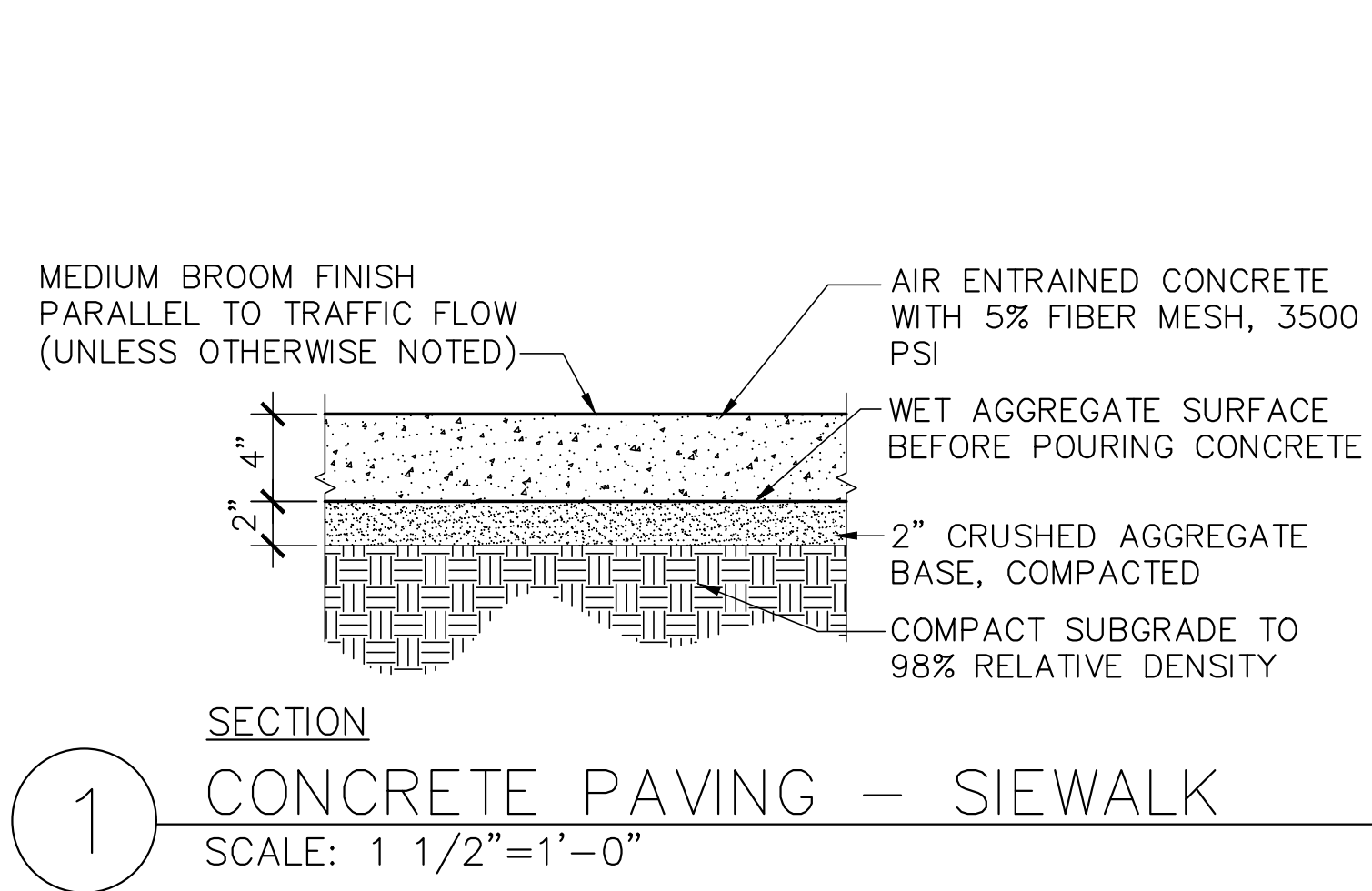
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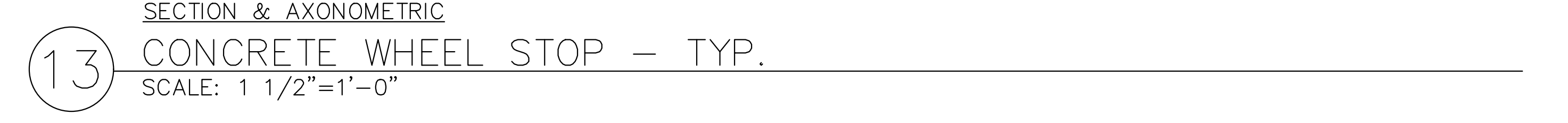
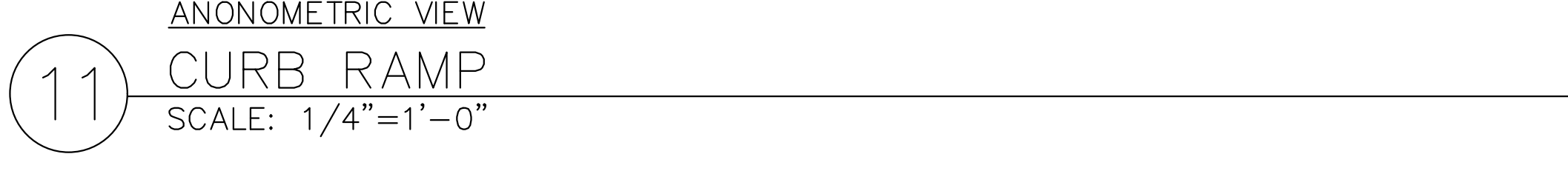
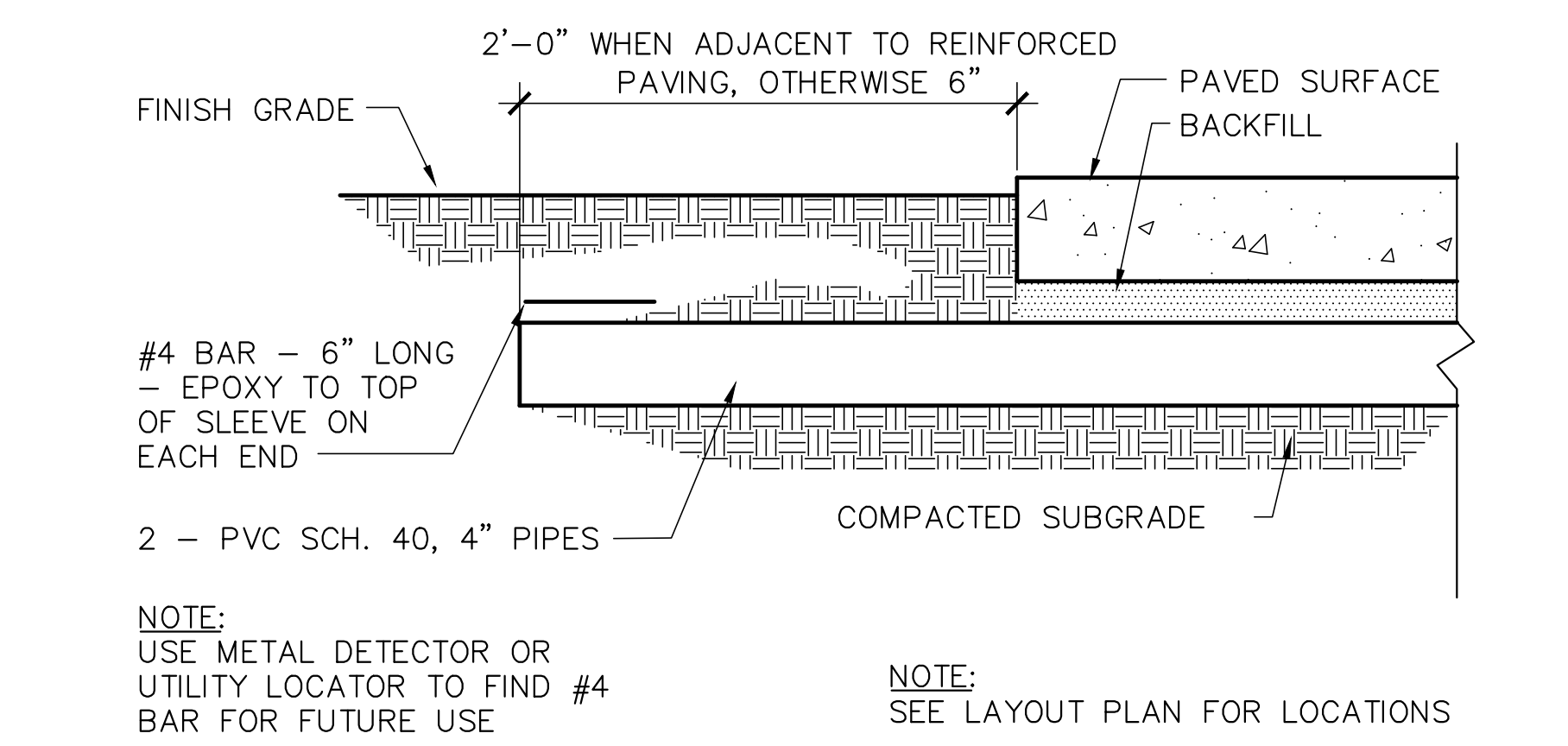
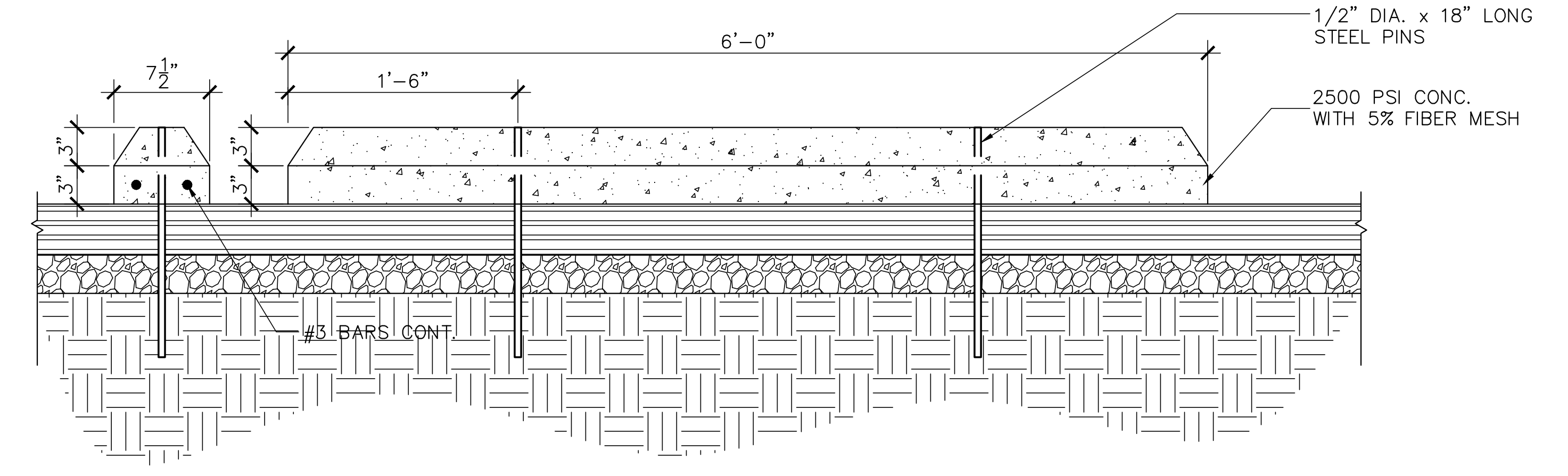
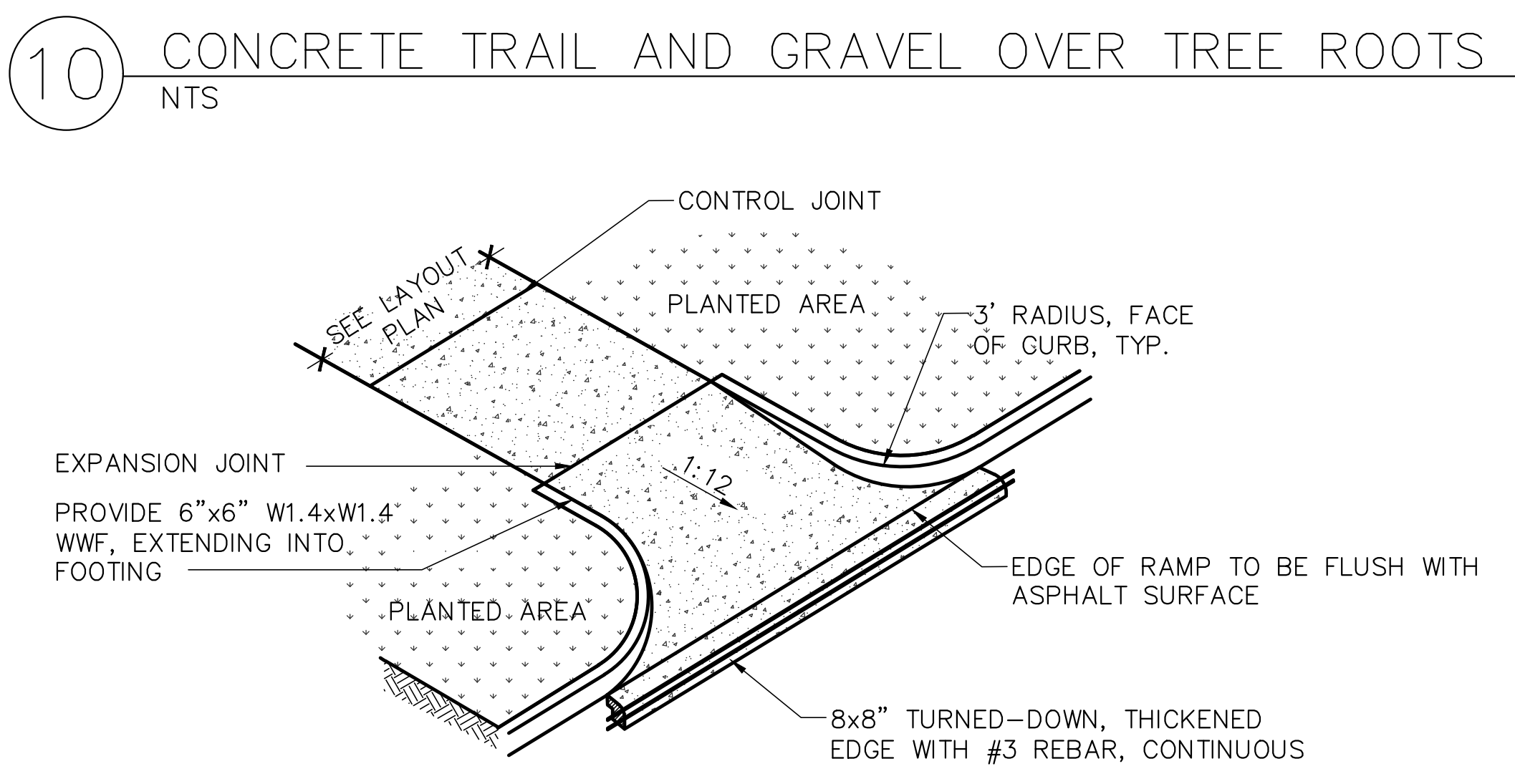
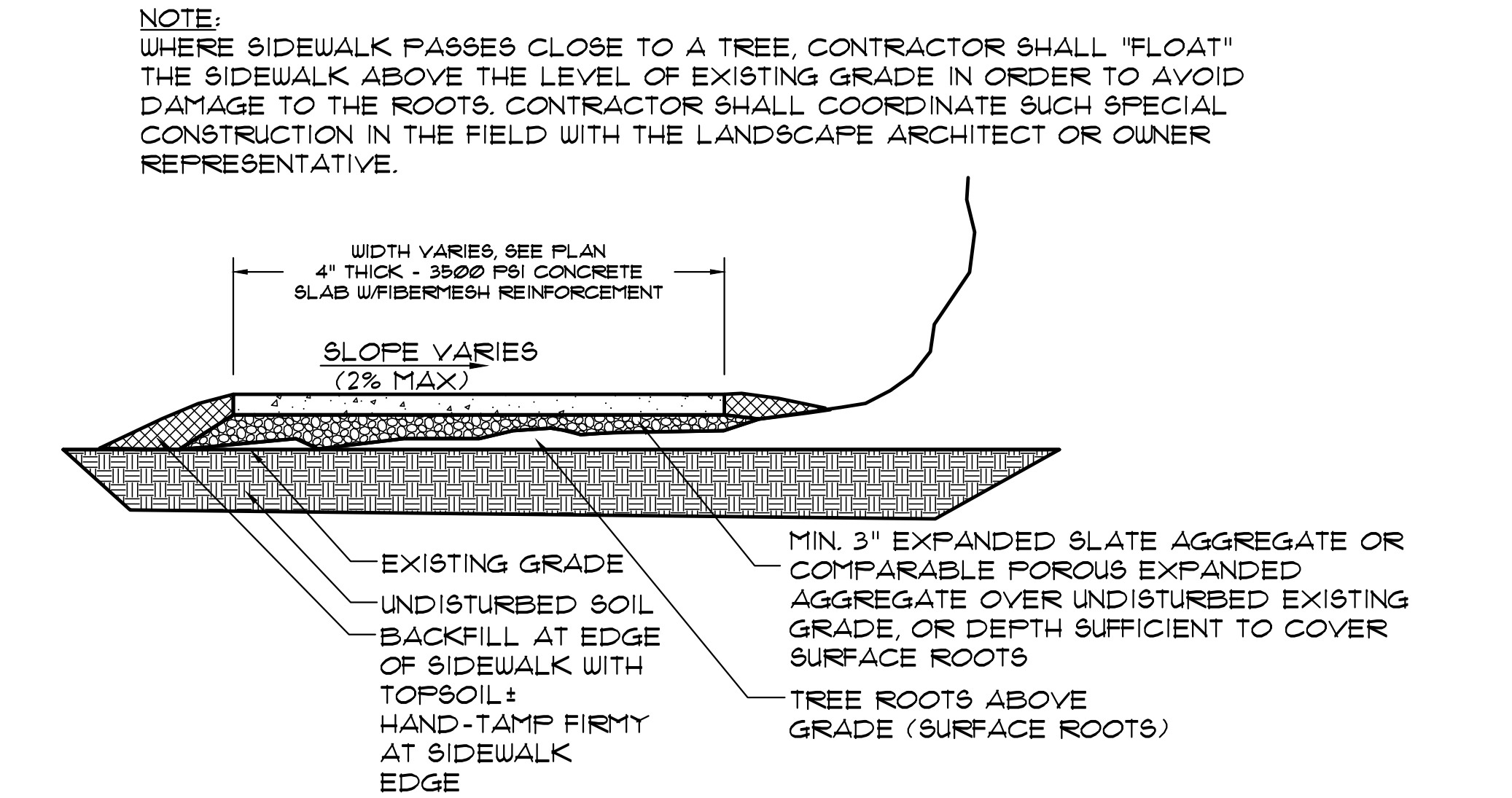
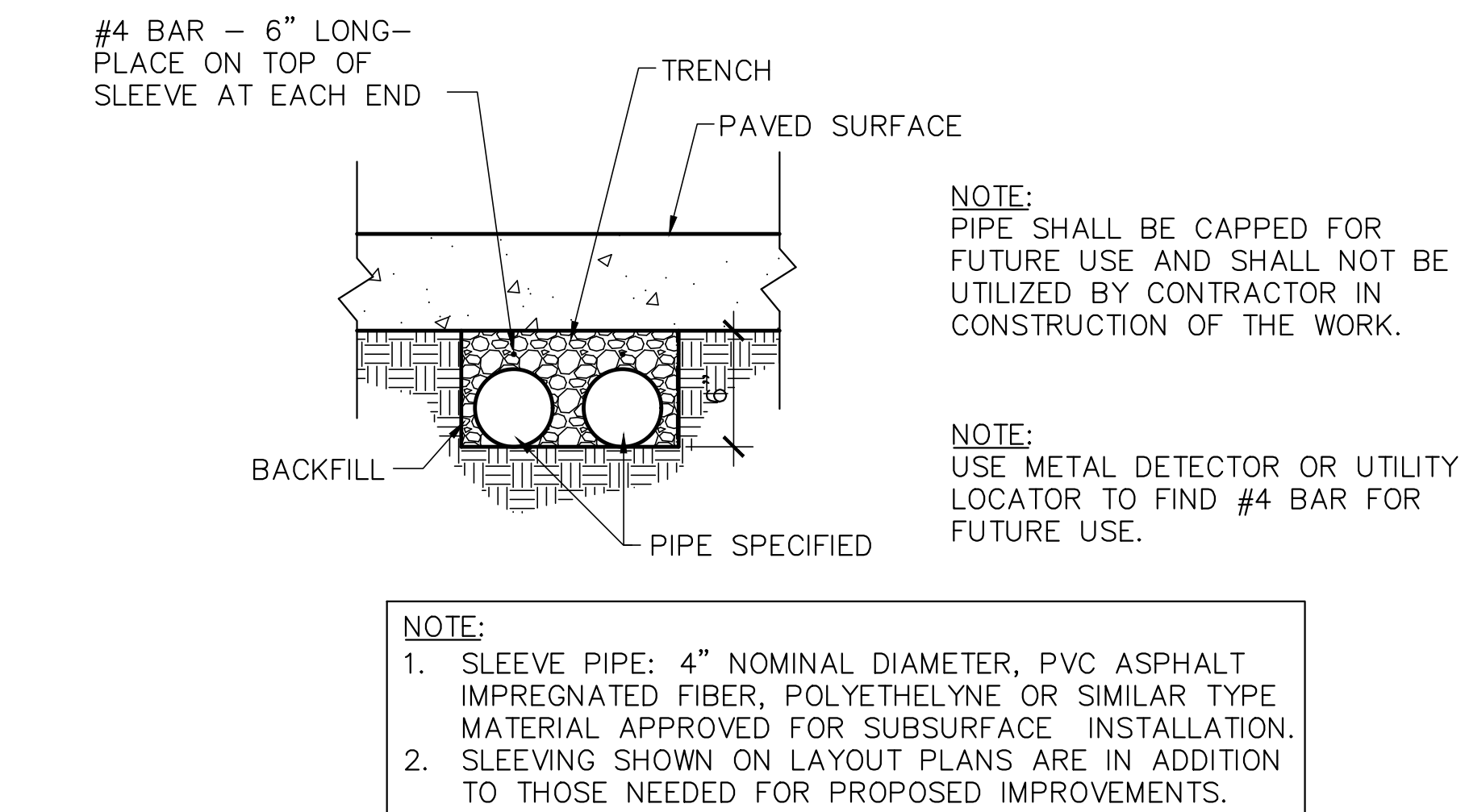
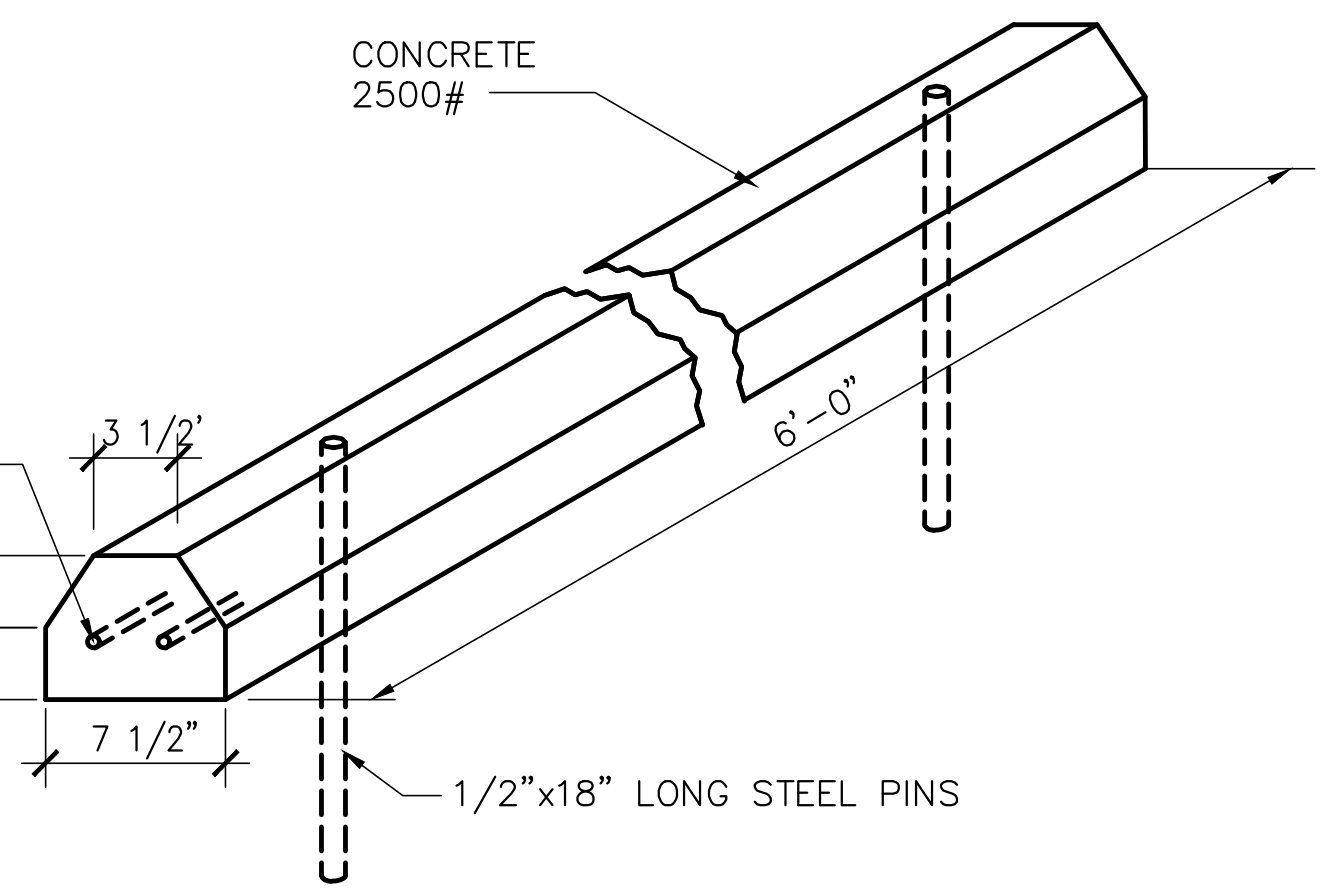
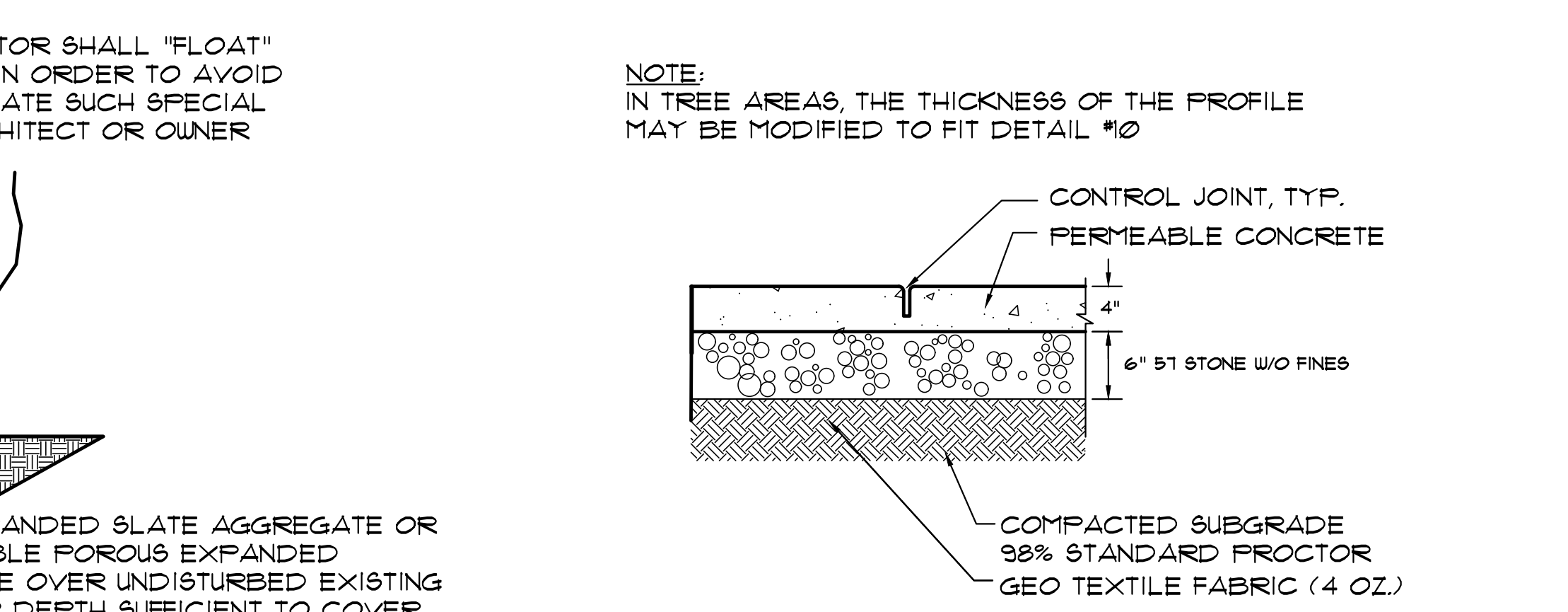
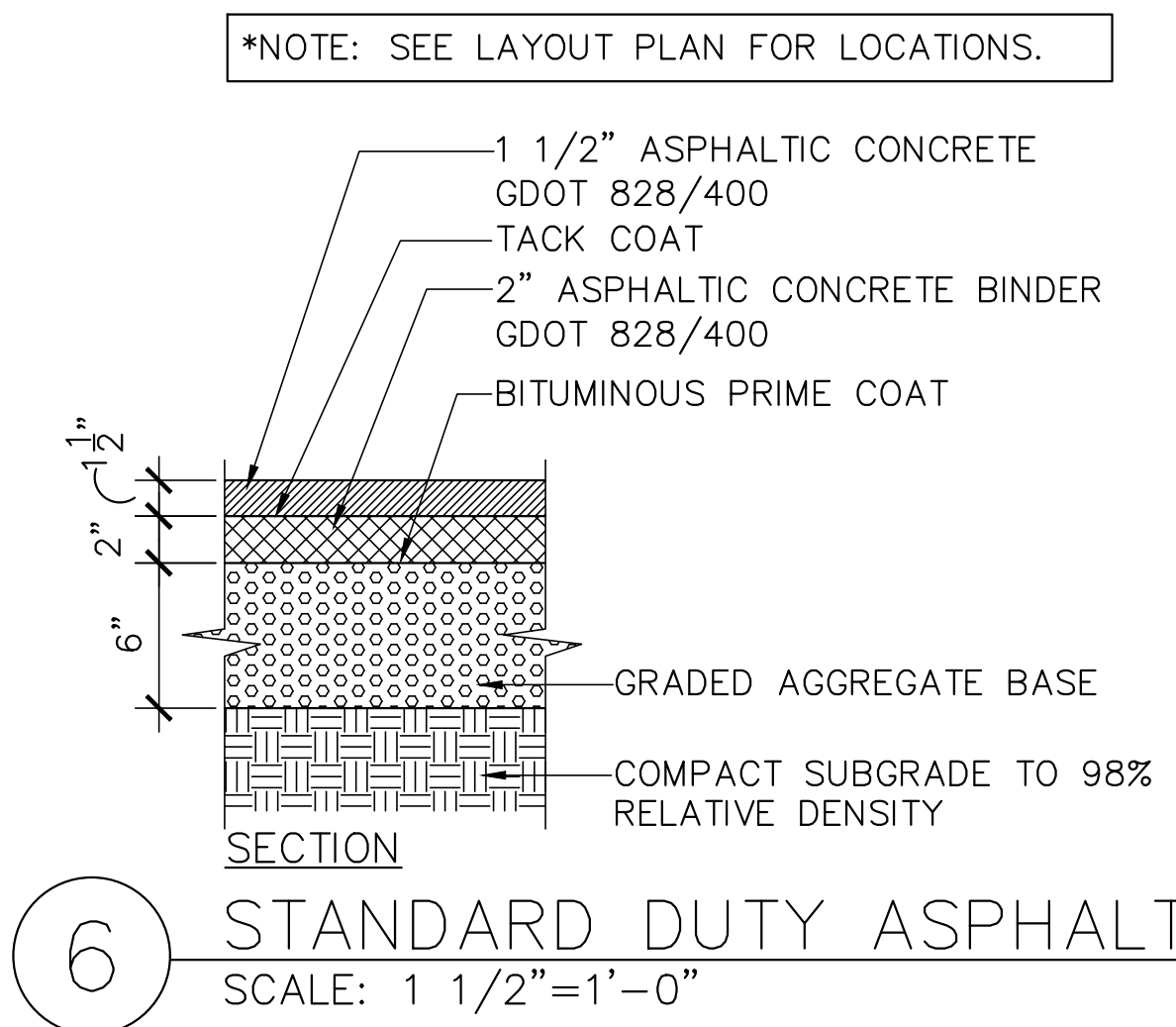
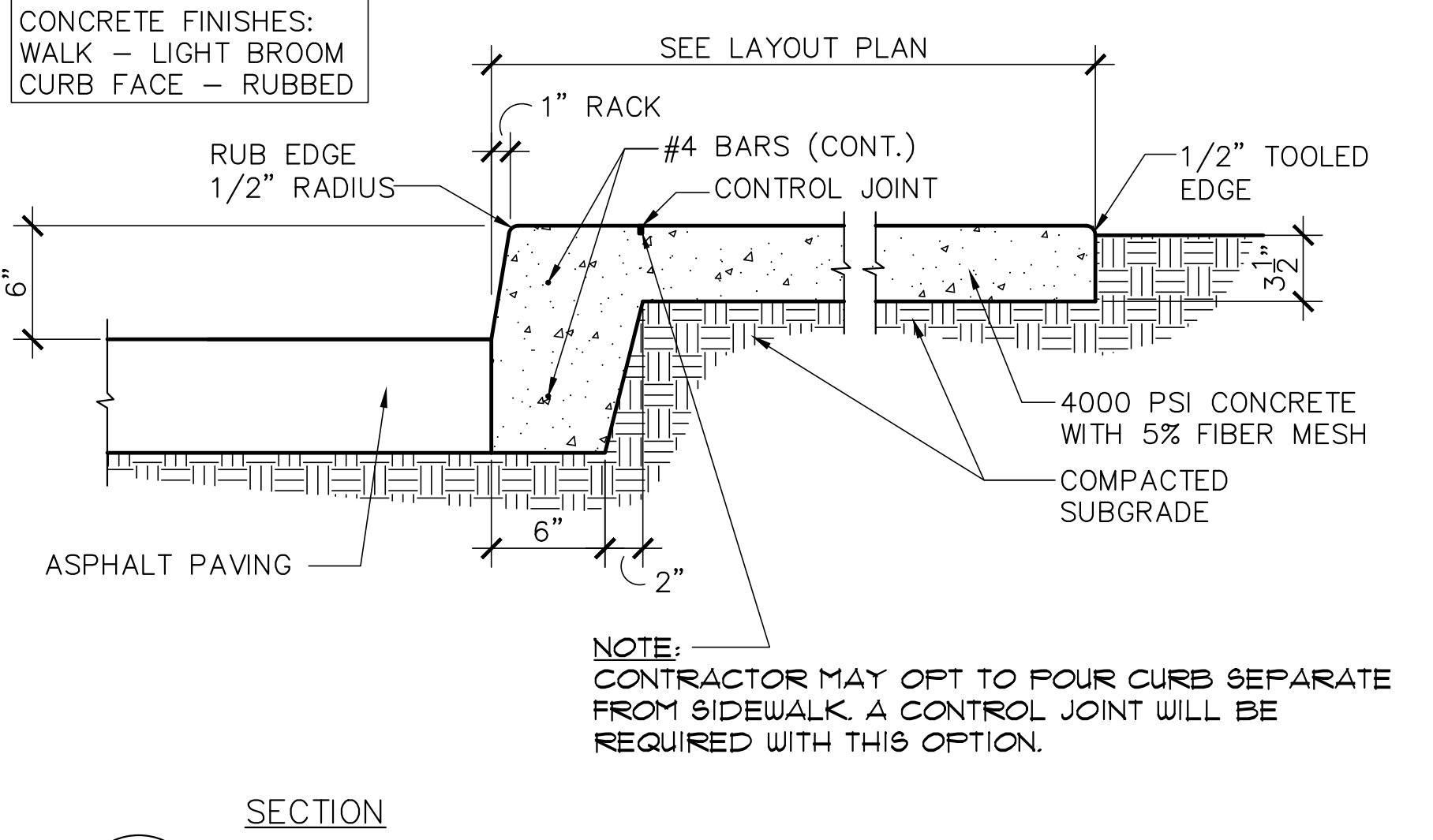
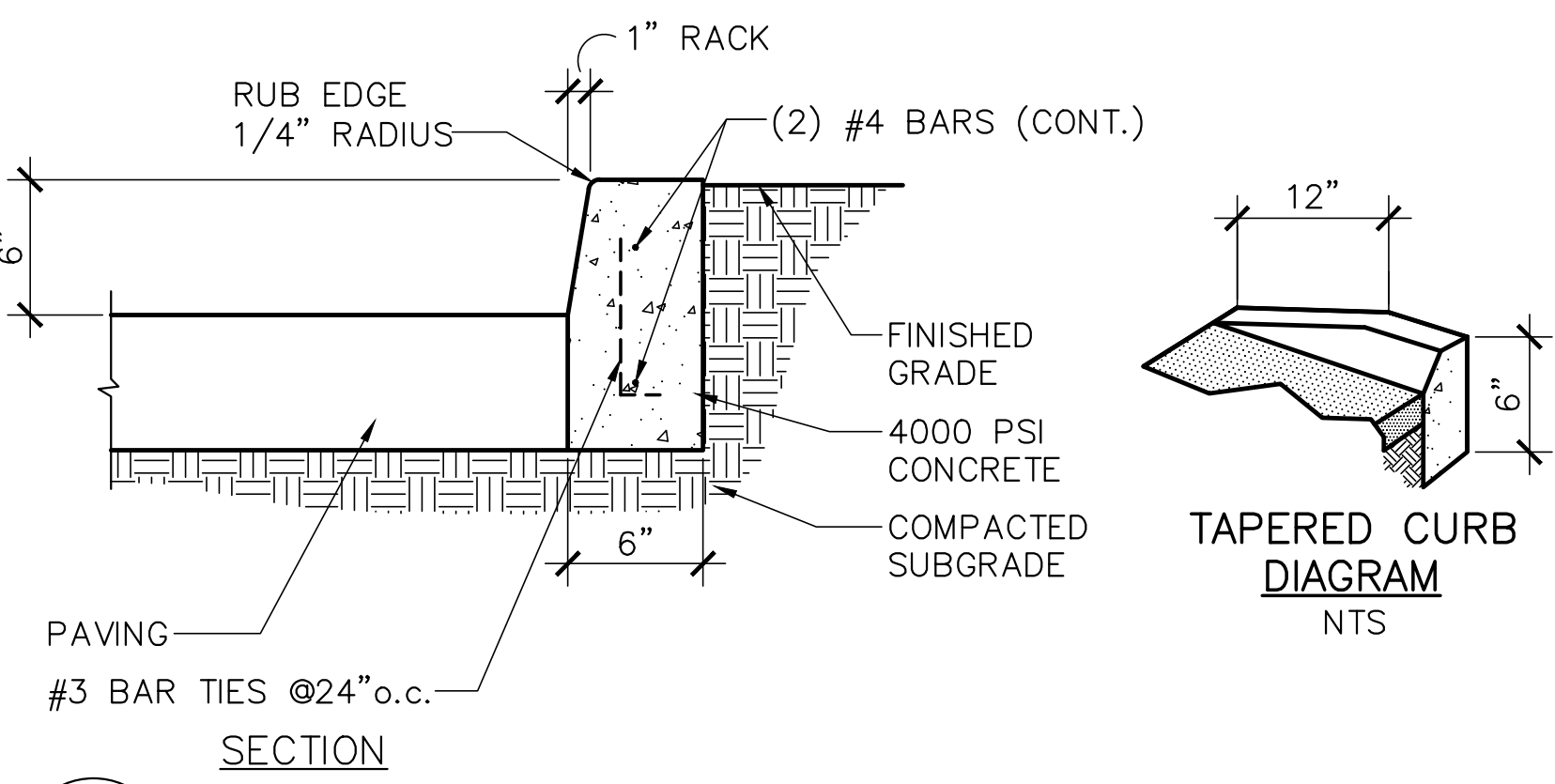
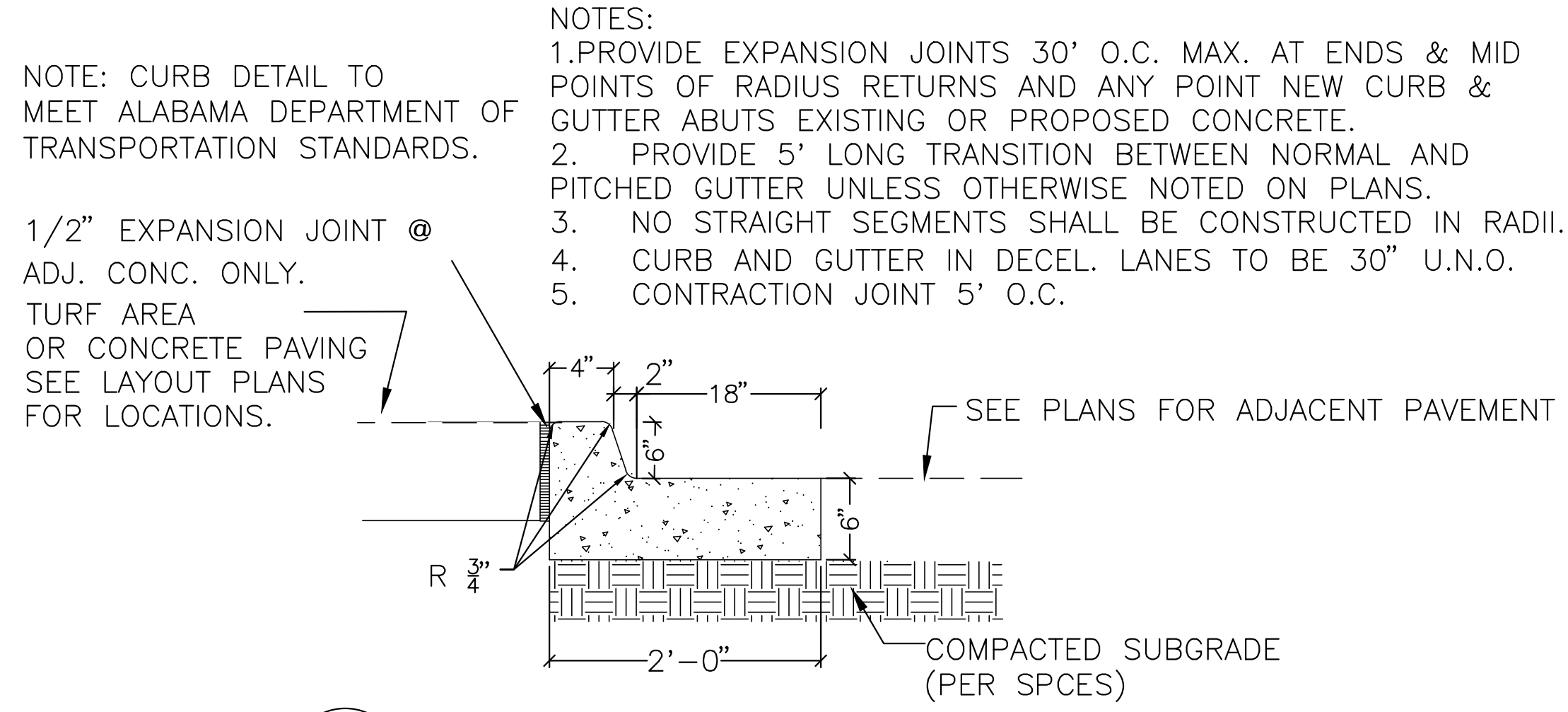


**ASPHALT NOTES:**

1. ASPHALTIC CONCRETE PAVING TO MEET GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS, SECTION 828.
2. SURFACE COURSE NOT TO BE PAVED UNTIL ALL HEAVY CONSTRUCTION (AND RELATED TRAFFIC) IS COMPLETE.
3. GRADED AGGREGATE BASE SHALL BE COMPOSED OF GROUP 1 AGGREGATE SUCH AS LIMESTONE, DOLOMITE, OR MARBLE; AND, MUST BE COMPACTED TO AT LEAST 100% STANDARD PROCTOR MAX DRY DENSITY.
4. THE TOP 24 INCHES OF SUBGRADE SOILS SHALL BE COMPACTED TO 98% OF THE STANDARD PROCTOR MAX DRY DENSITY.
5. SCARIFICATION AND MOISTURE ADJUSTMENT WILL LIKELY BE REQUIRED TO ACHIEVE THE RECOMMENDED COMPACTION LEVEL OF SUBGRADE SOILS.

**NOTES:**

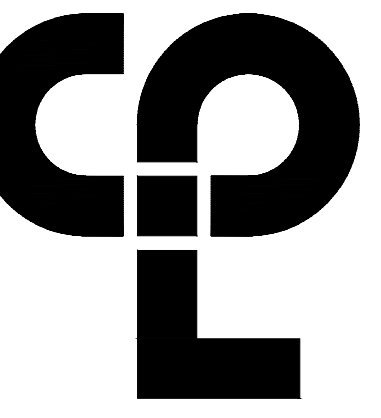
1. PROVIDE EXPANSION JOINTS 20' O.C. MAX. AT ENDS & MID POINTS OF RADIUS RETURNS AND ANY POINT NEW CURB & GUTTER ABUTS EXISTING OR PROPOSED CONCRETE.
2. PROVIDE 5' LONG TRANSITION BETWEEN NORMAL AND PITCHED GUTTER UNLESS OTHERWISE NOTED ON PLANS.
3. NO STRAIGHT SEGMENTS SHALL BE CONSTRUCTED IN RADII.
4. CONTRACTION JOINTS @ 10' o.c. MIN.
5. CURB TO RECEIVE A RUBBED FINISH.



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON UNLAWFULLY ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR SURVEYOR TO SEAL OR SIGN ANY DRAWING OR SPECIFICATION FOR THE CONSTRUCTION OF ANY BUILDING OR STRUCTURE OR THE LOCATION, DESIGN OR CONSTRUCTION OF ANY PUBLIC UTILITY OR THE LOCATION AND THE DATE OF SUCH ALTERATION AND A PRACTICE VIOLATION OF THE ALLEGED.

**SHEET INFORMATION**  
Sheet: 12.01.2022  
Scale: VARIES  
Created By: MHS  
Checked By: LAG  
Drawing Title: SITE DETAILS I

Polled By: Catherine Newberry  
 Date last modified: 3/27/2023 4:30 PM  
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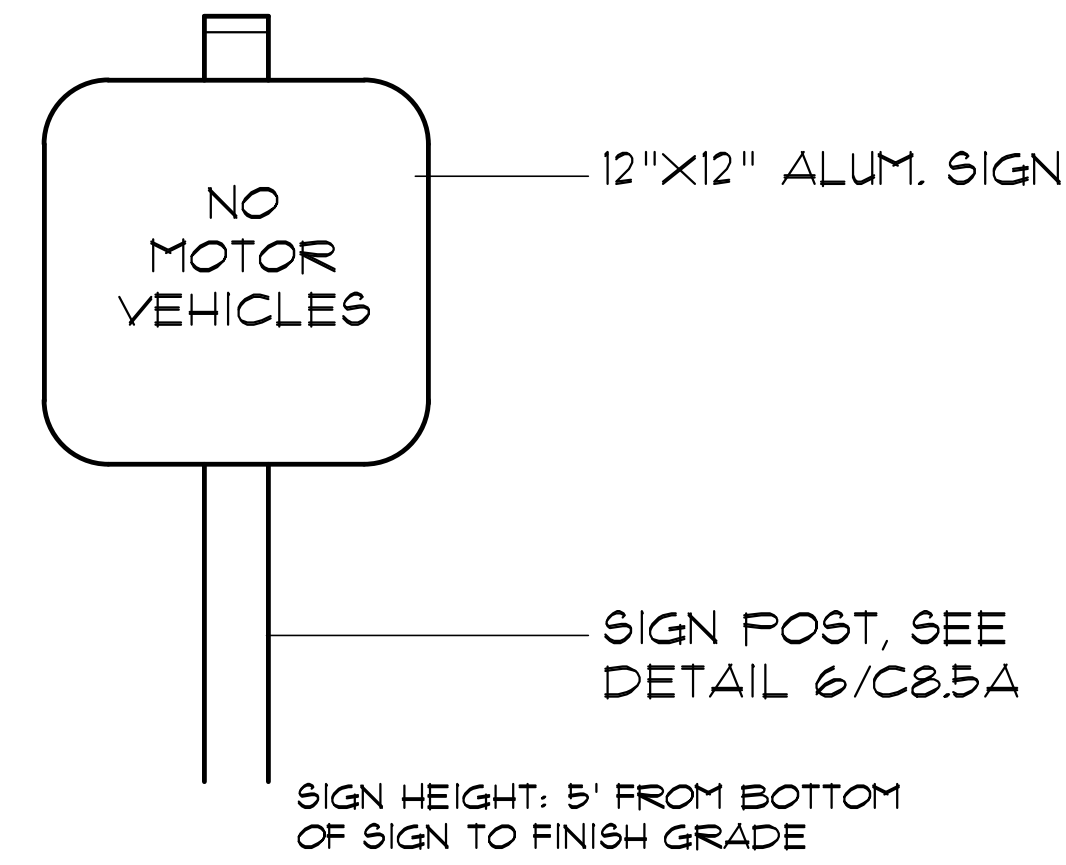
PROJECT INFORMATION

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Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

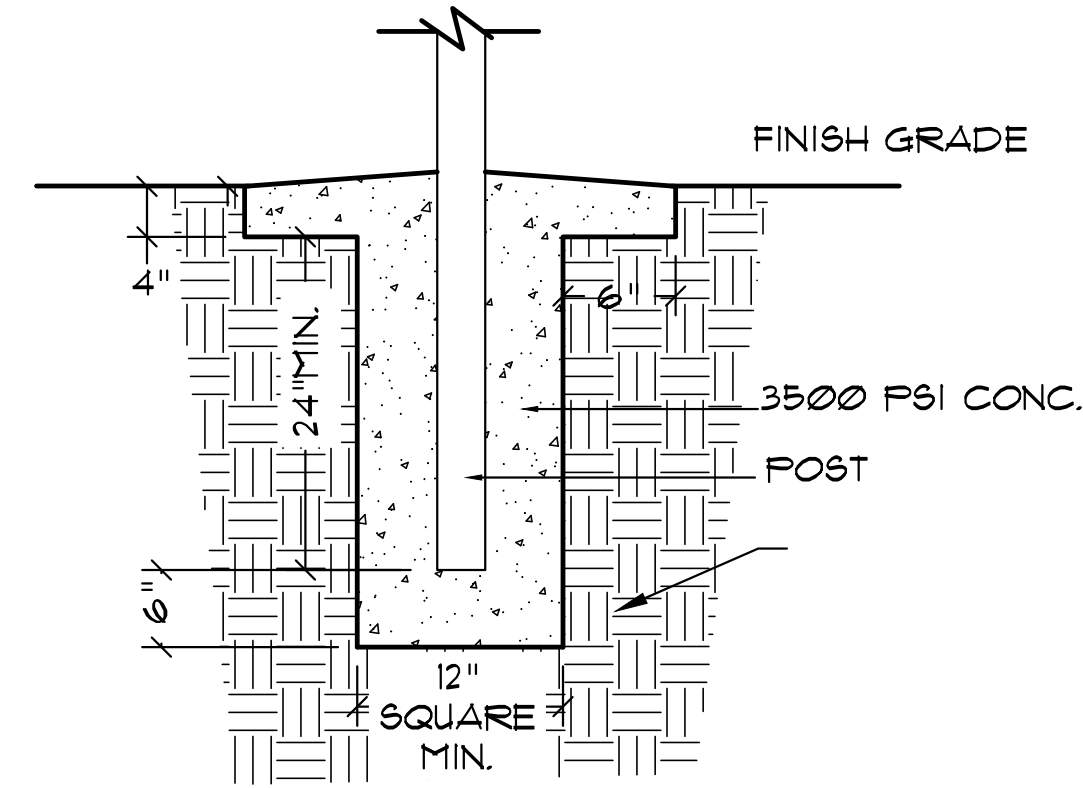
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BROOKHAVEN, GA 30319

REVISION SCHEDULE

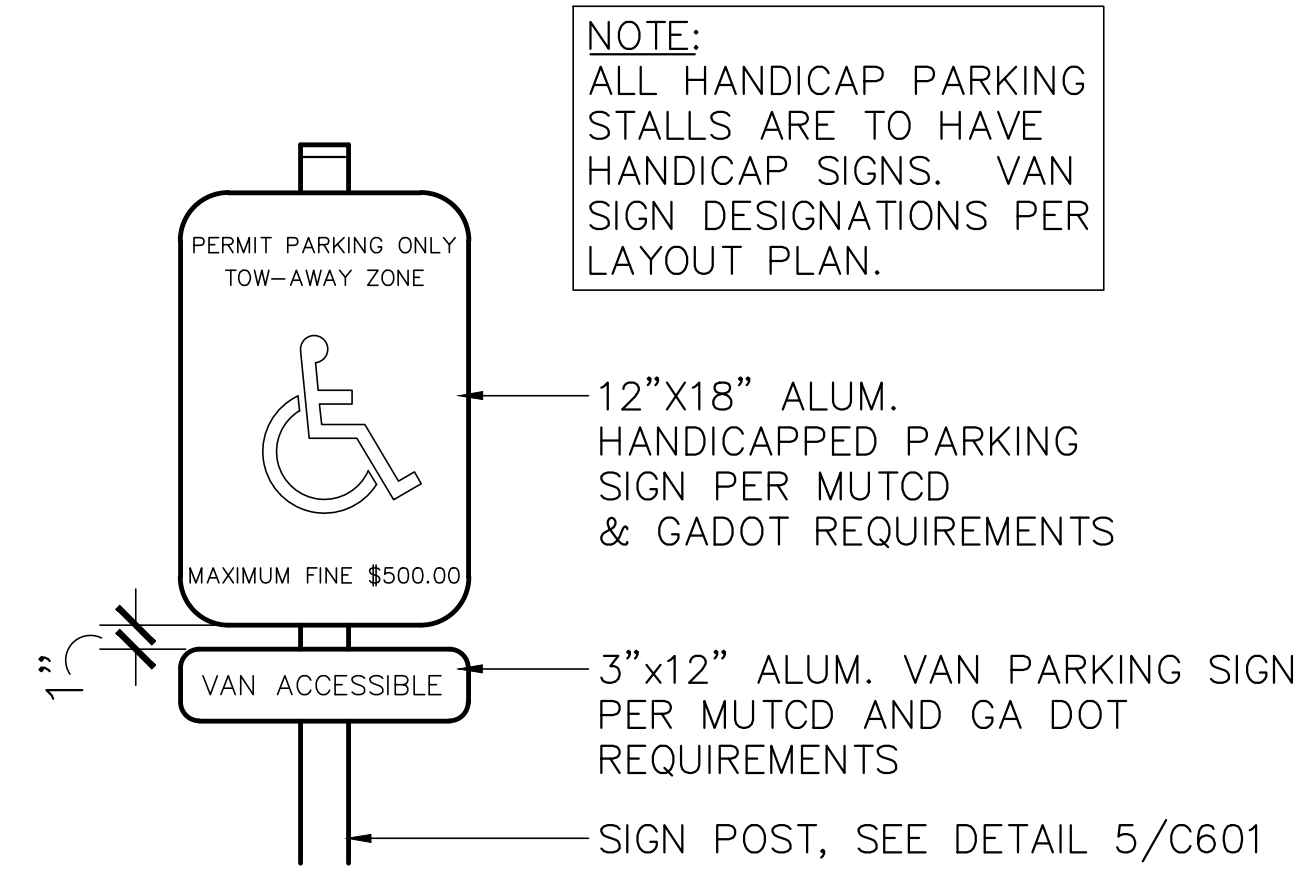
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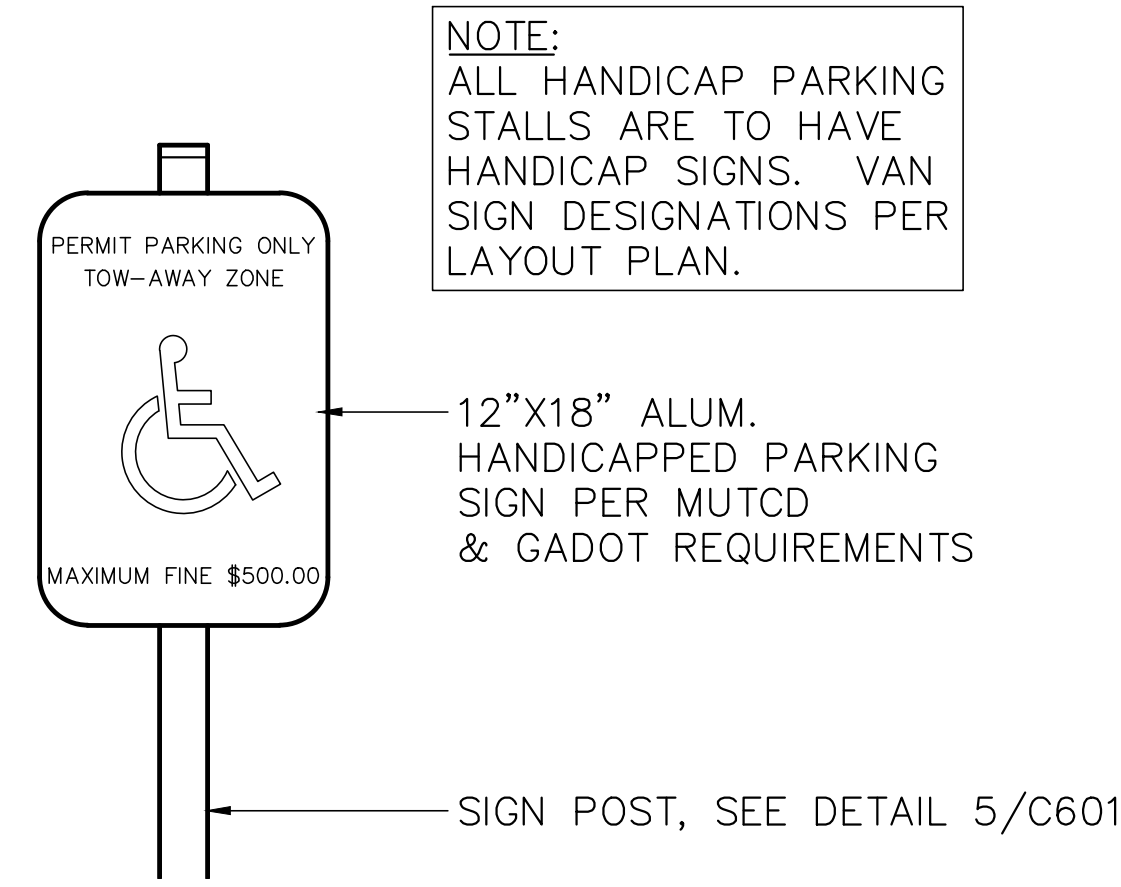
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NTS



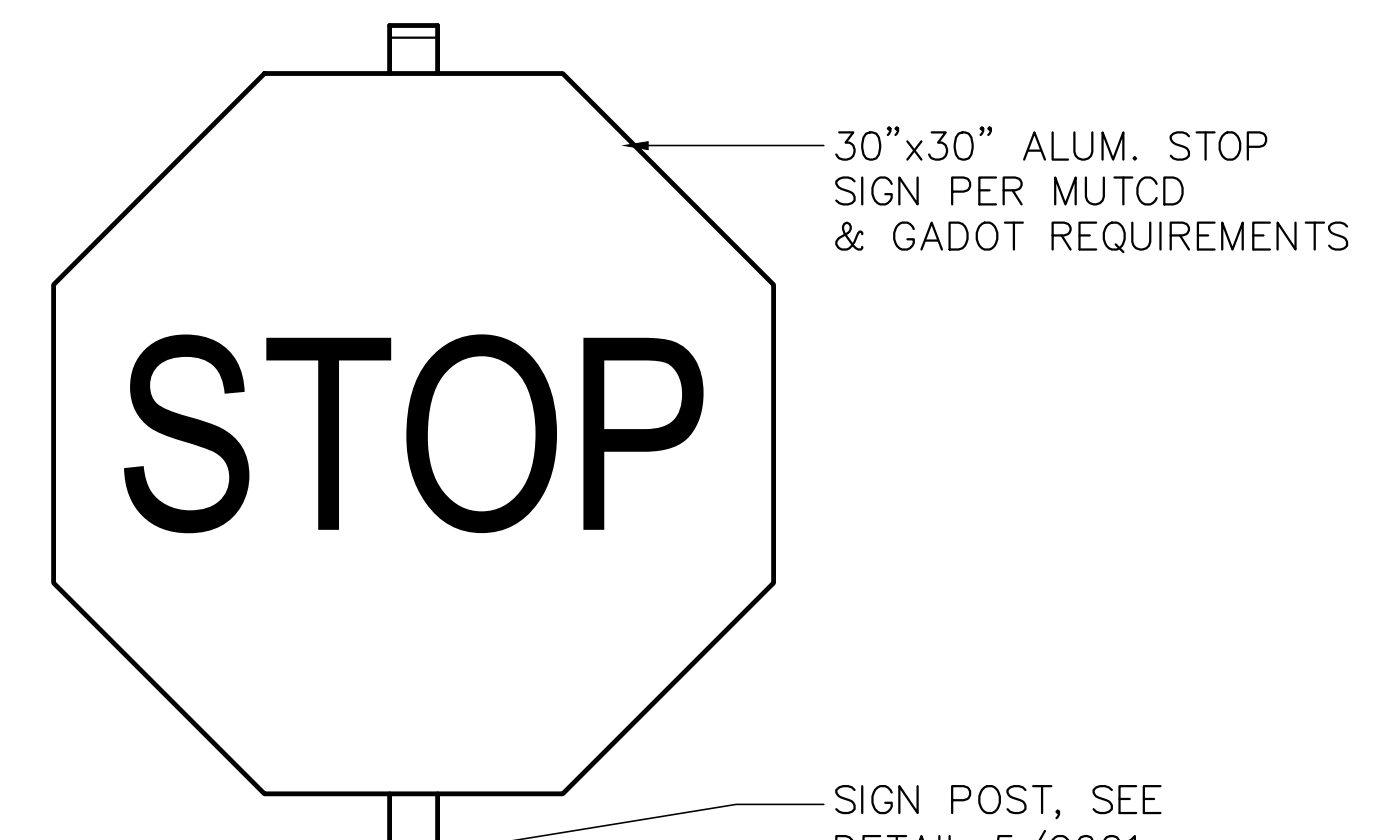
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NTS



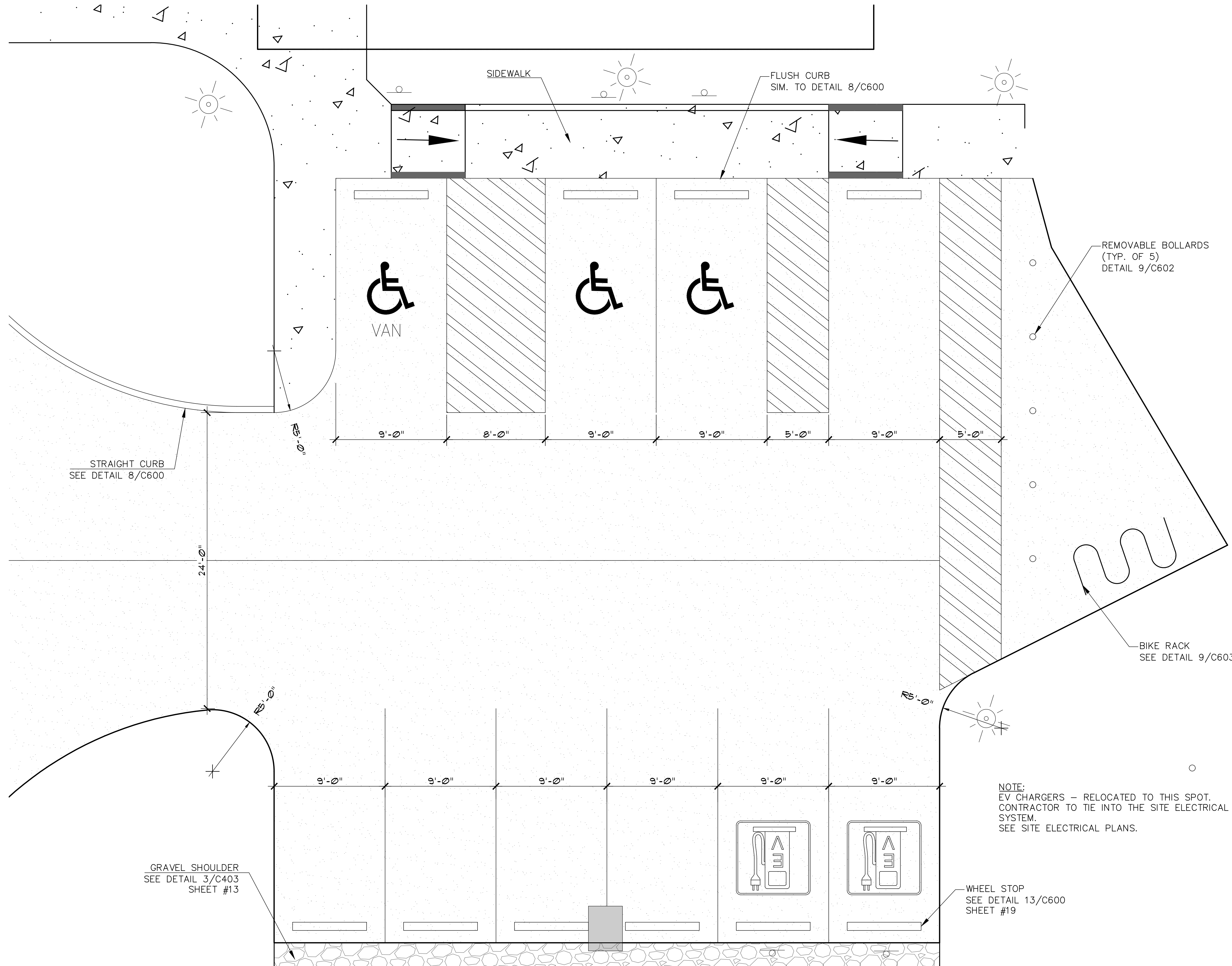
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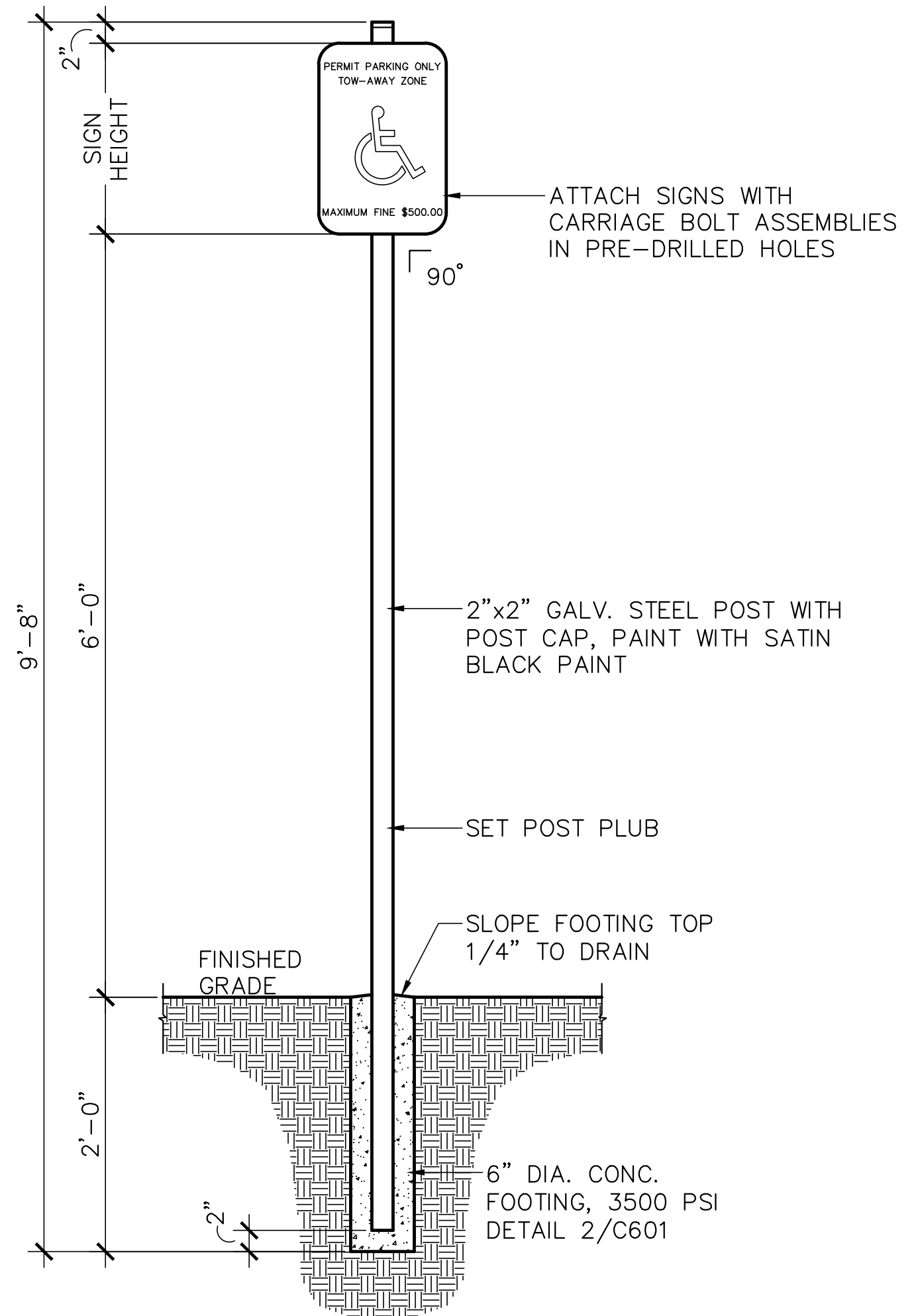
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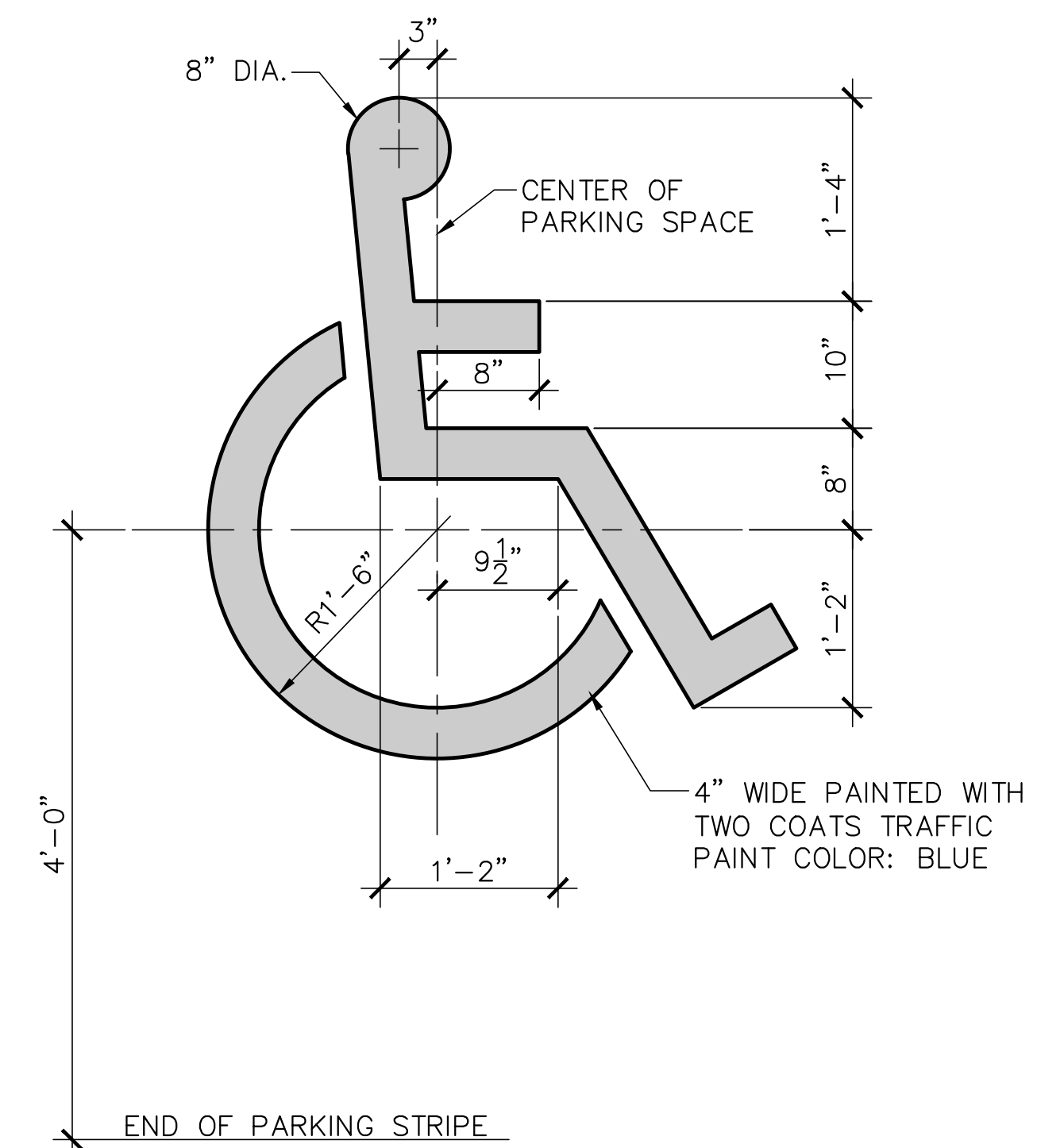
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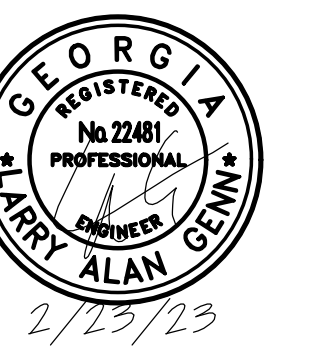
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6 SIGN POST  
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7 HANDICAP PAVEMENT SYMBOL  
SCALE: 1" = 1'-0"

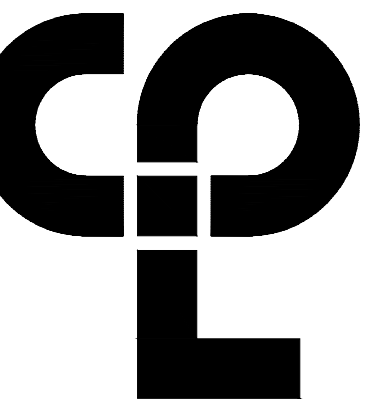


IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ASSESS OR SEAL ANY DRAWING OR ANY OTHER BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR OR ARCHITECT, ENGINEER OR LAND SURVEYOR TO THE TITLE THEREON, AND THE SIGNATURE, ADDRESS BY TELEPHONE BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Scale: VARIES  
Created By: LAG  
Drawing Title: SITE DETAILS 2





PROJECT INFORMATION

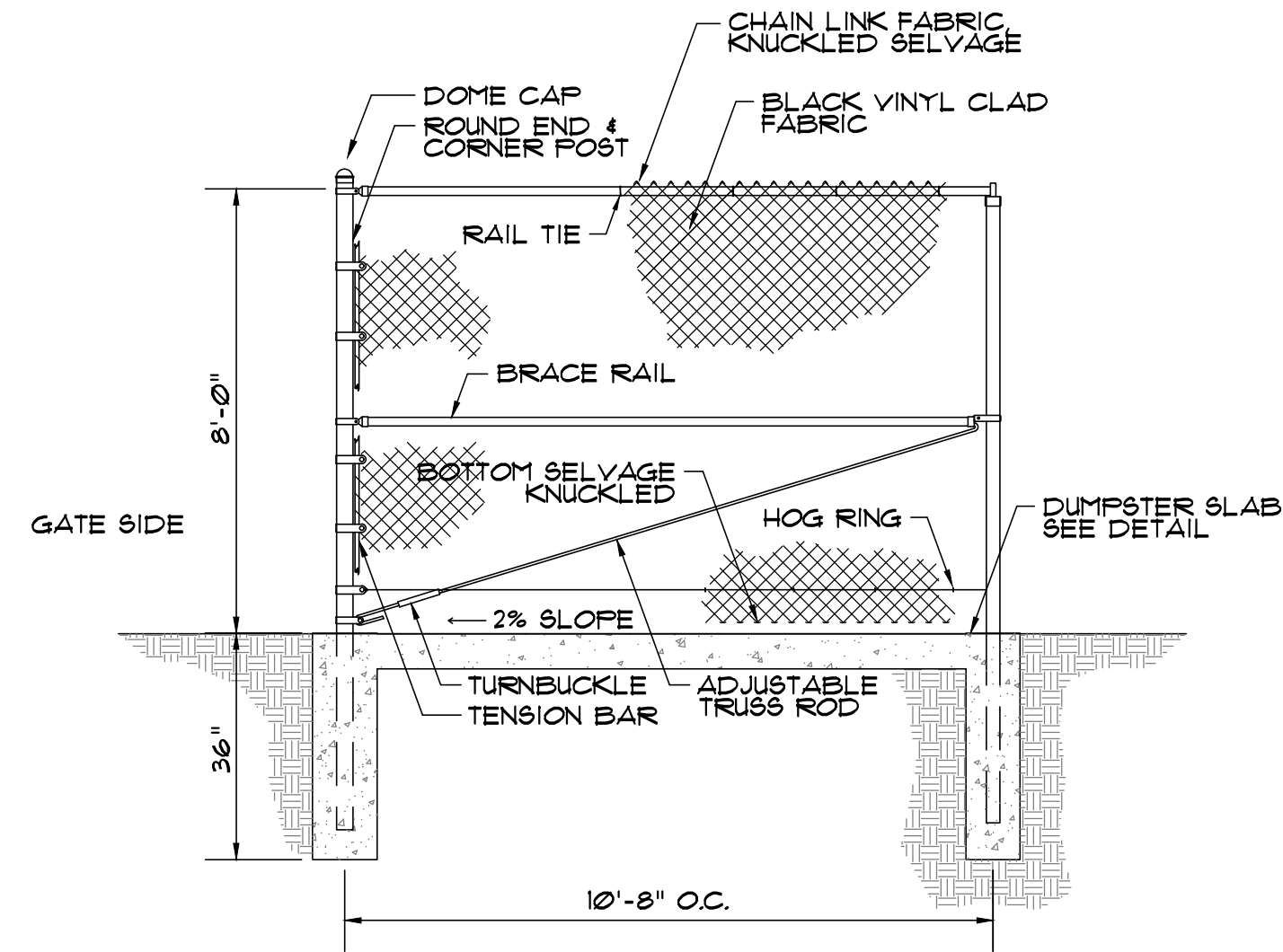
Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

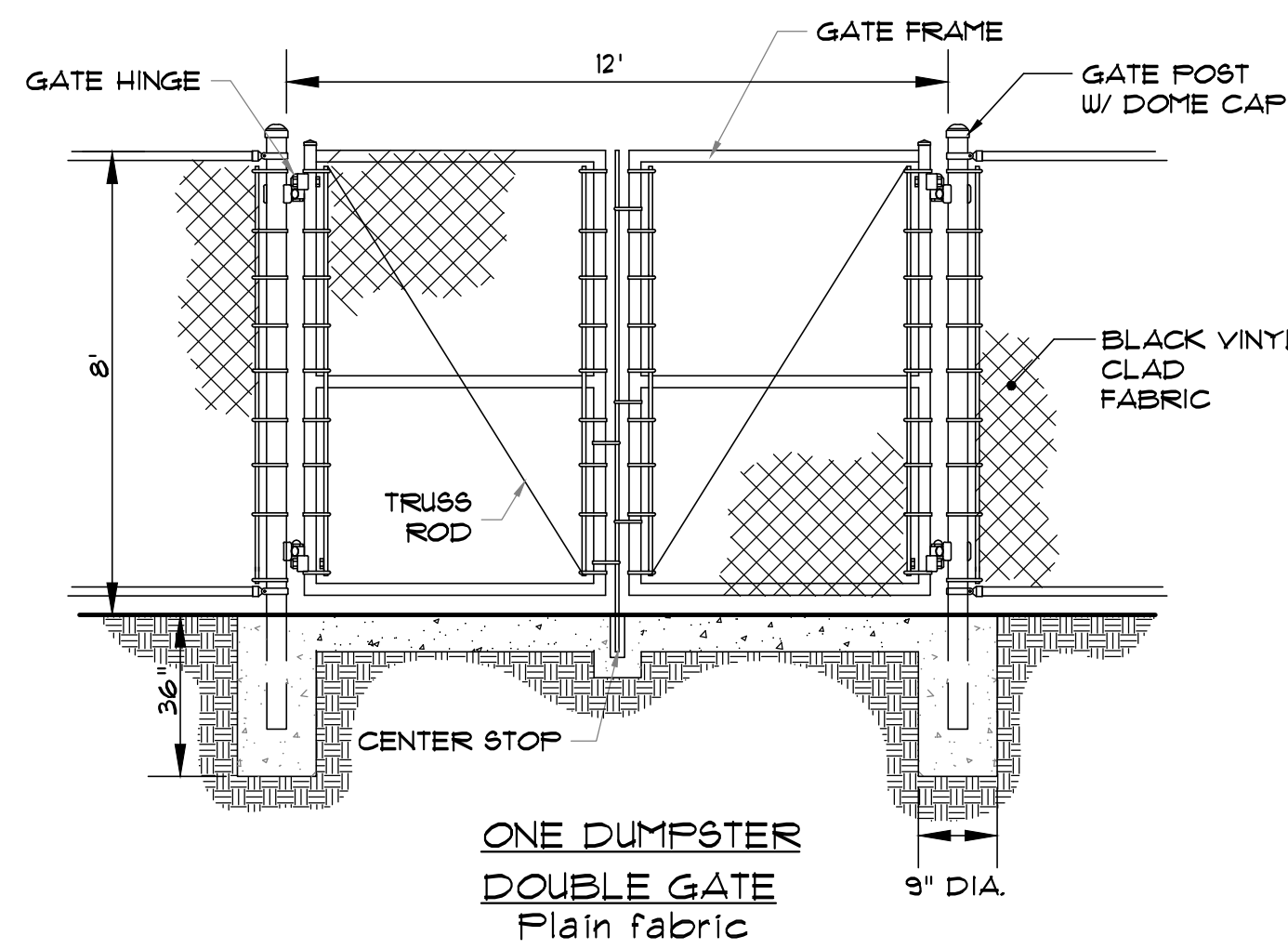
Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

REVISION SCHEDULE

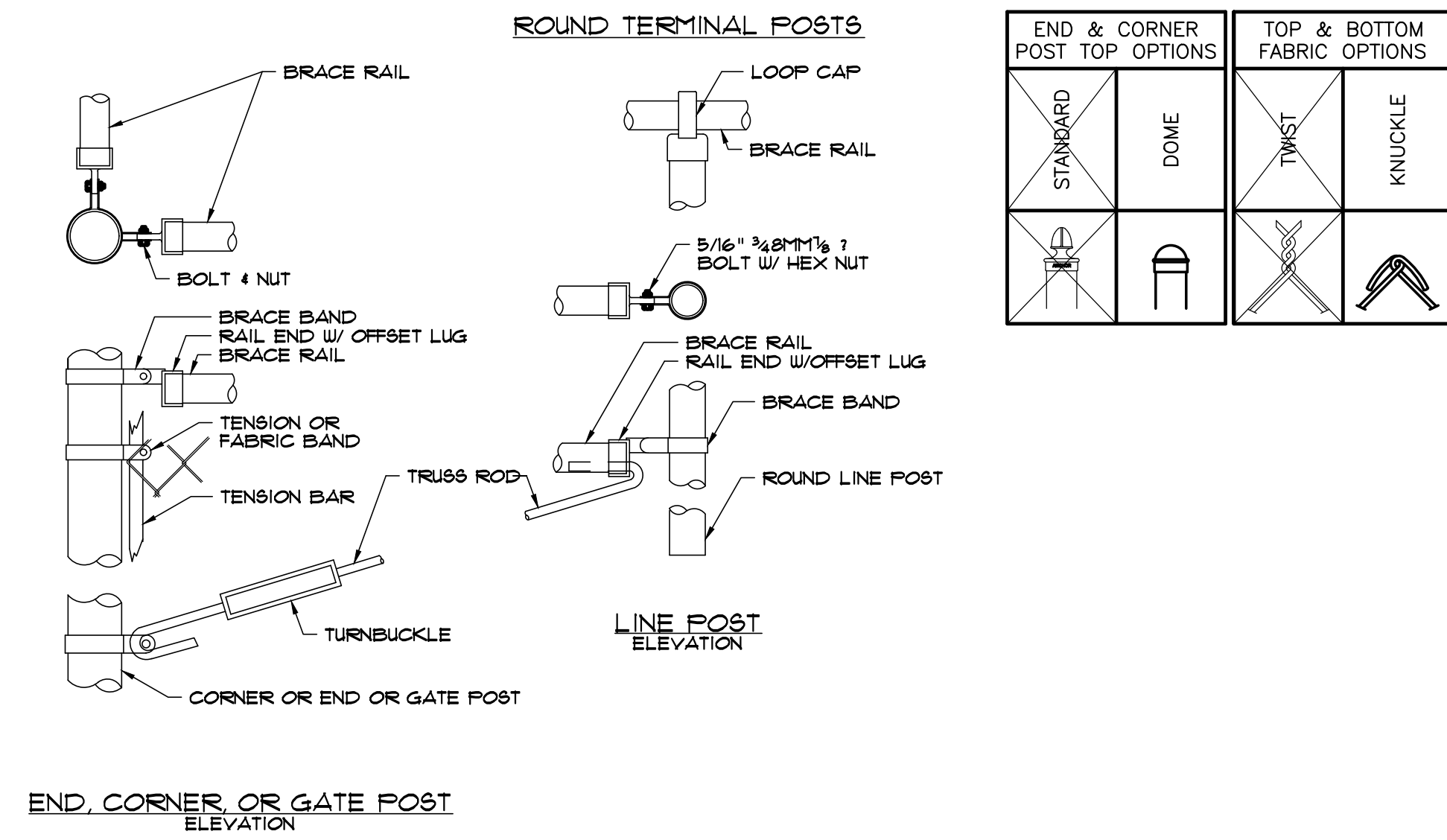
NO.	DATE	DESCRIPTION
1	07-14-2023	LDP CIP COMMENT #1
2	07-19-2023	REVISION PERMIT
3	02-09-2023	LDP CIP COMMENT #2
4	03-27-2023	LDP CIP COMMENT #3



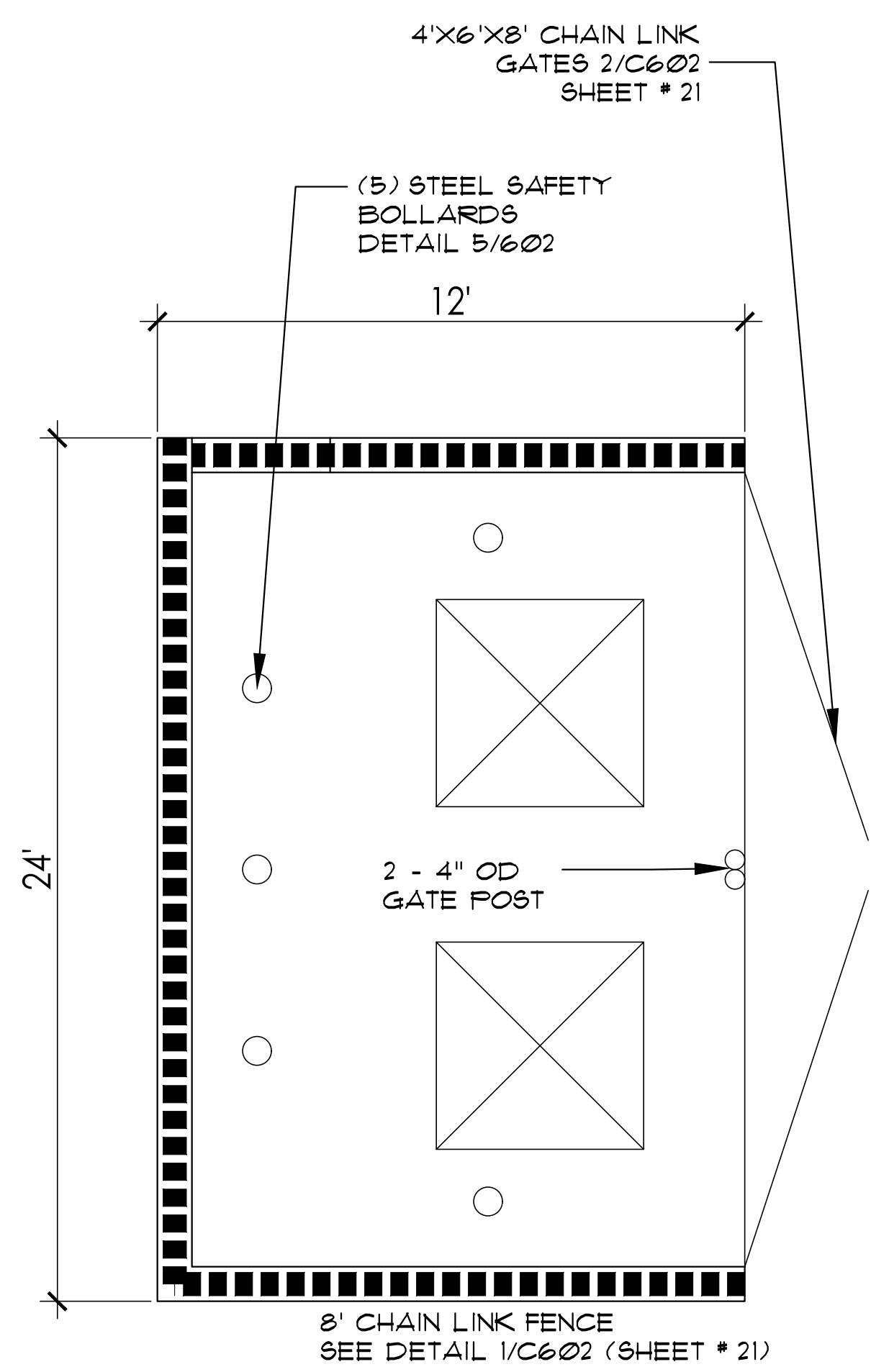
1 DUMPSTER FENCE - SIDE VIEW  
NTS



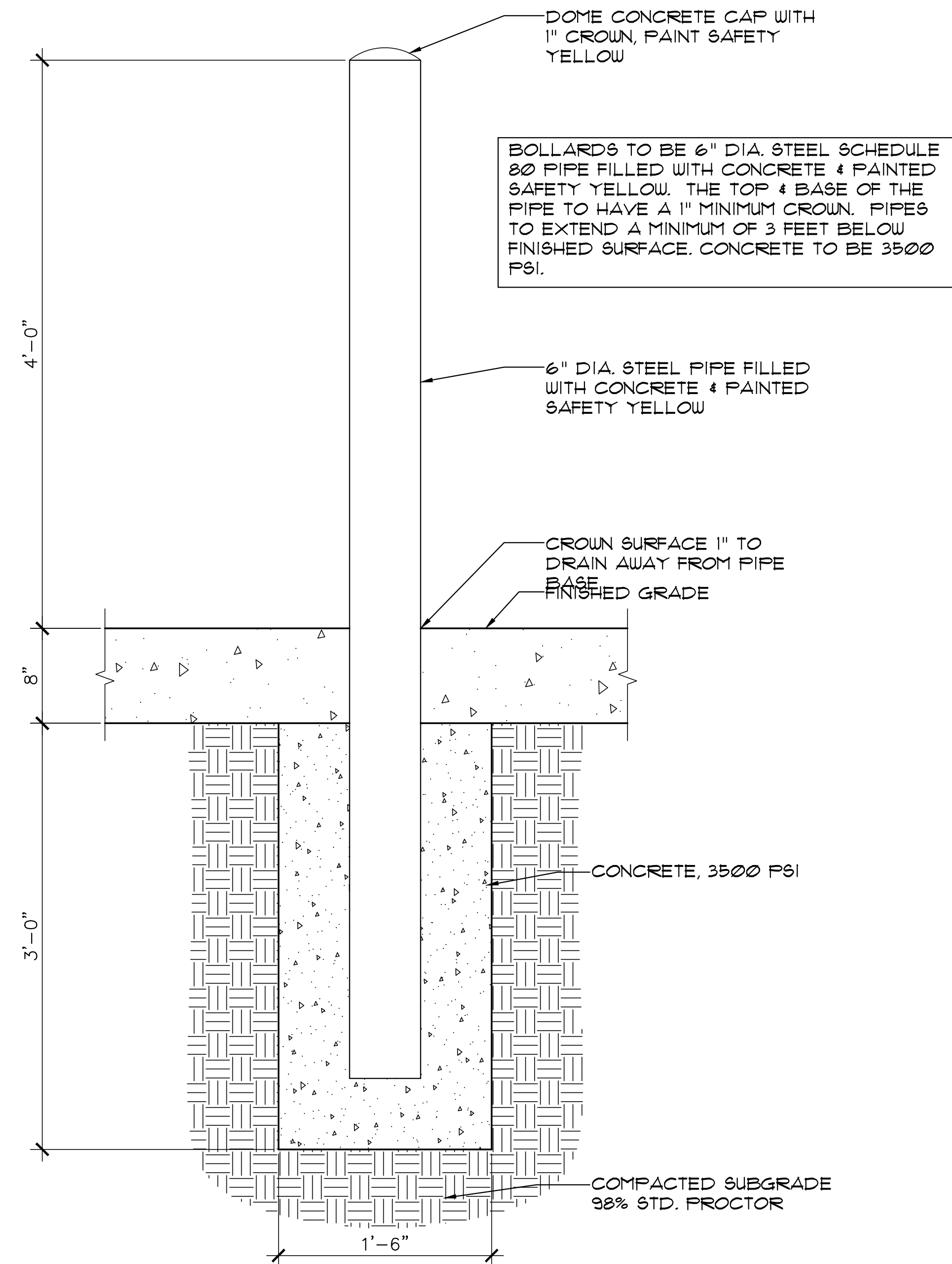
2 CHAIN LINK GATE DETAIL-TYPICAL  
NTS



3 CHAIN LINK GATE DETAILS-TYPICAL  
NTS



4 DOUBLE GATE DUMPSTER  
NOT TO SCALE



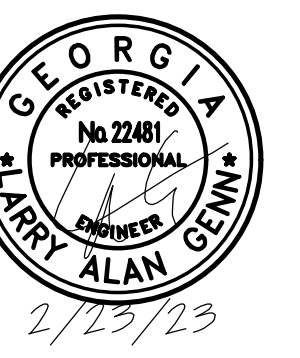
5 STEEL SAFETY BOLLARD - TYP.  
1/8"=1'-0"



SKU: 123456-1-1-1  
CATEGORY: COLLAPSIBLE BOLLARDS  
TAG: BOLLARDS

<https://www.bollardshop.com/product/collapsible-bollard/>

6 COLLAPSIBLE BOLLARD  
NTS



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SHEET INFORMATION

Scale: 12/01/2022	Scale: VARIES
Drawn By: MJS	Created By: LAG
Design File: SITE DETAILS 3	

- THIS FOUNTAIN IS TO BE MOUNTED ON A SMOOTH, FLAT, FINISHED SURFACE WITH ADEQUATE SUPPORT STRUCTURE. NOTE: MOUNTING STRUCTURE MUST BE CAPABLE OF SUPPORTING 300 LB. LOAD ON FOUNTAIN.
- REFER TO ROUGH-IN FOR PLUMBING.
- INSTALL SHUT-OFF VALVE ON WATER SUPPLY. (VALVE NOT FURNISHED)
- LOCATE AND INSTALL FOUNTAIN USING 3/8" MINIMUM FASTENERS. (FASTENERS NOT FURNISHED)
- PRIOR TO INSTALLING THE BOTTLE FILLER TO THE CENTER MOUNTING POSITION OF FOUNTAIN, INSTALL THE DRAIN PIPE (ITEM #11) BY POSITIONING THE SHORT END OF DRAIN PIPE THROUGH MOUNTING PLATE OF BOTTLE FILLER. NEXT, PLACE THE AESTHETIC COLLAR (ITEM # 26) ONTO THE CENTER MOUNTING POSITION OF THE FOUNTAIN ENSURING THE VERTICAL EDGE OF THE COLLAR IS UPRIGHT AND THE CURVED EDGE SITS BELOW THE MOUNTING SURFACE. MOUNT BOTTLE FILLER TO FOUNTAIN WITH COLLAR CENTERED BETWEEN THE TWO PIECES. SECURE WITH SUPPLIED HARDWARE.
- PRIOR TO INSTALLING THE BOTTLE FILLER TO THE ARM MOUNT OF FOUNTAIN, INSERT THE DRAIN PIPE (ITEM #10) INTO THE ARM TUNNEL AND ADJUST DRAIN TO LEAN TO THE LEFT SIDE OF ARM WHEN FACING BUTTON. PLACE THE AESTHETIC COLLAR (ITEM # 26) ONTO THE ARM MOUNTING POSITION OF THE FOUNTAIN ENSURING THE VERTICAL EDGE OF THE COLLAR IS UPRIGHT AND THE CURVED EDGE SITS BELOW THE MOUNTING SURFACE.
- MOUNT BOTTLE FILLER TO ARM WITH COLLAR CENTERED BETWEEN THE TWO PIECES. INSTALL BOTTLE FILLER TO ARM BEING SURE DRAIN TUBE IS ABOVE MOUNTING PLATE OF FILLER. INSTALL FILLER ONTO FOUNTAIN AND SECURE WITH SUPPLIED MOUNTING HARDWARE.
- CONNECT WATER SUPPLY AND FOUNTAIN DRAIN. CONNECT DRAIN WASTE "TEE" TO FOUNTAIN DRAIN TUBES. CONNECT OUTLET OF "TEE" TO DRAINAGE SYSTEM. CONNECT BOTTLE FILLER WATER LINE TO REGULATOR WITH THE SUPPLIED 3/8" TO 1/4" REDUCING FITTING. WATER CONNECTION AND DRAIN MUST COMPLY WITH LOCAL CODES.
- TURN ON WATER SUPPLY AND CHECK ALL CONNECTIONS FOR LEAKS.
- WATER SUPPLY 3/8" O.D. UNPLATED COPPER TUBE. WASTE 1-1/2" IPS. CONTRACTOR TO SUPPLY WASTE TRAP AND SERVICE STOP VALVE IN ACCORDANCE WITH LOCAL CODES.
- CONNECTING LINES TO BE MADE OF UNPLATED COPPER AND SHOULD BE THOROUGHLY FLUSHED TO REMOVE ALL FOREIGN MATTER BEFORE BEING CONNECTED TO FOUNTAIN. THIS FOUNTAIN IS MANUFACTURED IN SUCH A MANNER THAT IT DOES NOT IN ANY WAY CAUSE TASTE, COLOR, COLOR, OR SEDIMENT PROBLEMS.
- CONNECT FOUNTAIN TO SUPPLY LINE WITH A SHUT-OFF VALVE AND INSTALL A 3/8" UNPLATED COPPER WATER LINE BETWEEN THE VALVE AND THE COOLER. REMOVE ANY BURRS FROM OUTSIDE OF WATER LINE. PUSH THE TUBES STRAIGHT INTO THE FITTINGS UNTIL THEY REACH A POSITIVE STOP. APPROXIMATELY 3/4" (SEE FIG. 2). DO NOT SOLDER TUBES INSERTED INTO PLASTIC FITTINGS AS DAMAGE TO THE O-RINGS MAY RESULT.

MANUFACTURER:  
ELKAY  
2222 CAMDEN COURT  
OAK BROOK, IL 60053  
(PH) 630-574-8484  
(PH) 800-476-4106 (PLUMBING)

LOCAL CONTACT: RICKY ALDERMAN  
MAINTENANCE SUPPLY CO.  
(PH) 770-986-8015  
(FX) 770-455-6127  
RICK@MSCATLANTA.COM

MODEL: LK4420BF1UBLK  
ELKAY OUTDOOR FOUNTAIN  
BI-LEVEL PEDESTAL NON-  
FILTERED, NON-REFRIGERATED  
FREEZE RESISTANT  
FINISH: BLACK  
(OR APPROVED EQUAL).

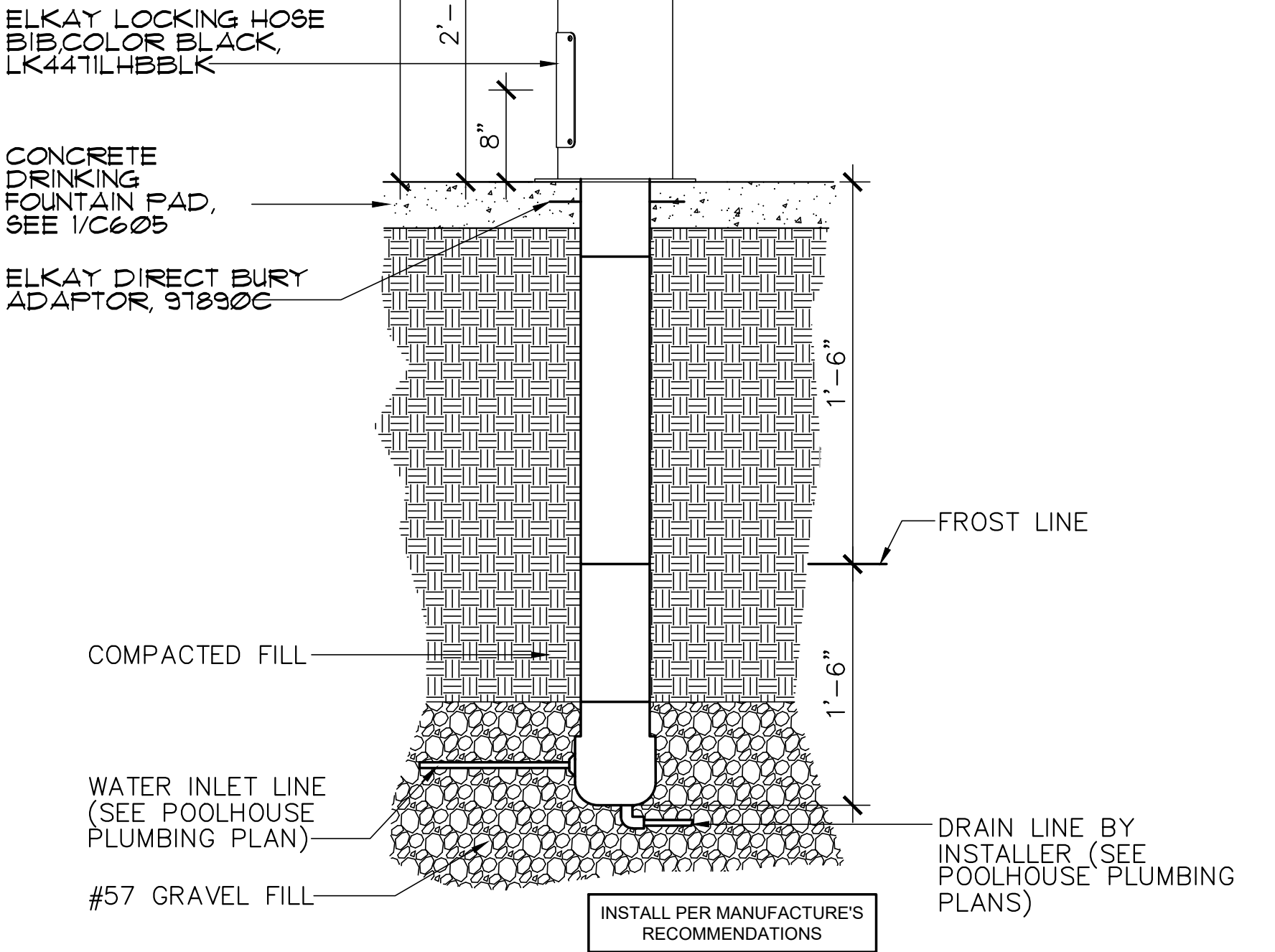
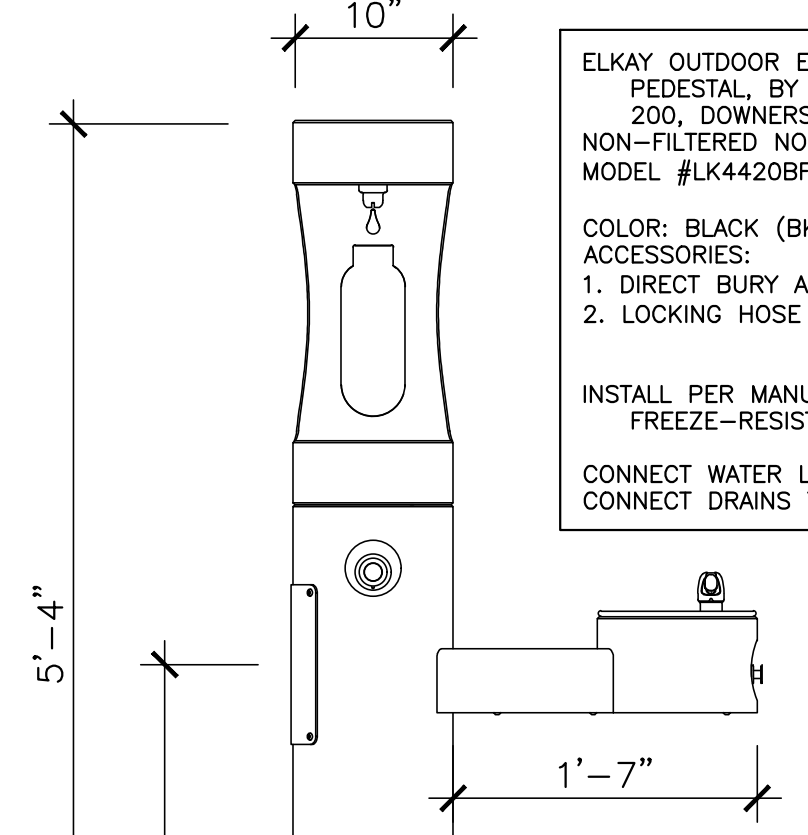
ELKAY LOCKING HOSE  
BIB, COLOR BLACK,  
LK441LHBBLK

CONCRETE  
DRINKING  
FOUNTAIN PAD,  
SEE 1/C605

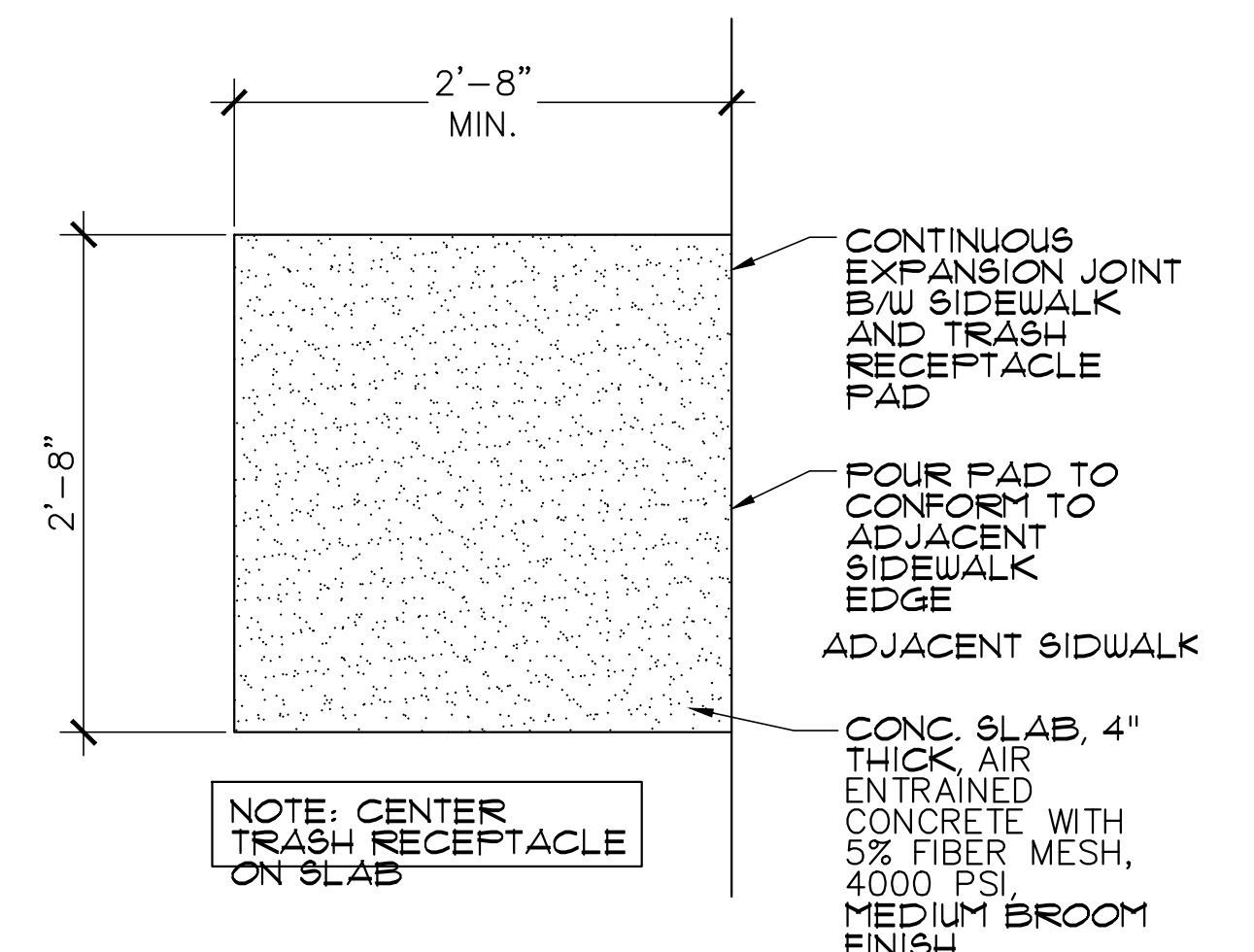
ELKAY DIRECT BURY  
ADAPTOR, 91830C

ELKAY OUTDOOR EZH2O BOTTLE FILLING STATION BI-LEVEL  
PEDESTAL, BY ELKAY, 1333 BUTTERFIELD ROAD, SUITE  
200, DOWNERS GROVE, IL 60515, 630-574-8484.  
MODEL: #LK4420BF1U  
COLOR: BLACK (BK)  
ACCESSORIES:  
1. DIRECT BURY ADAPTOR, BLACK (#97890C)  
2. LOCKING HOSE BIB, BLACK (#LK441LHBBLK)

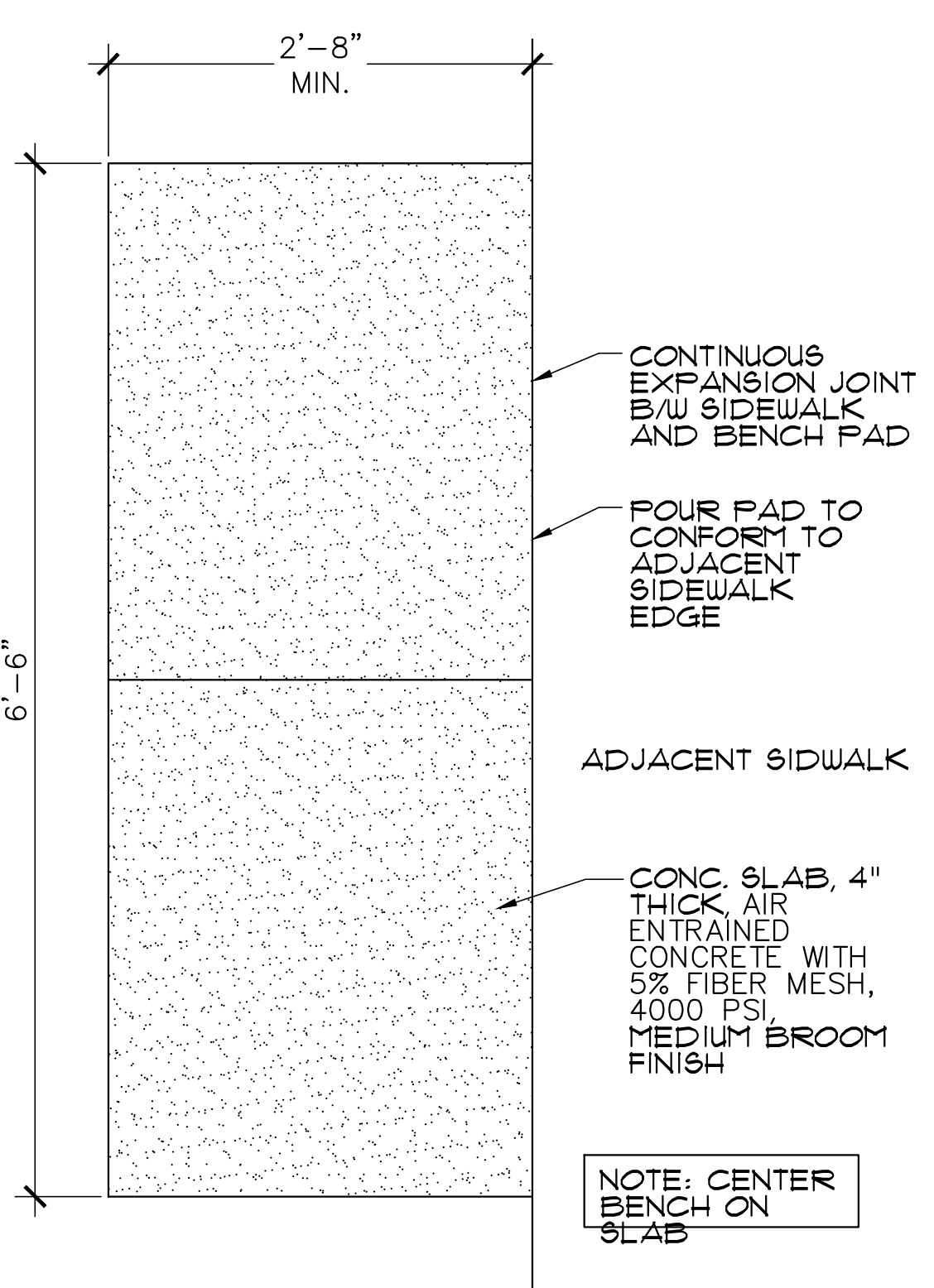
INSTALL PER MANUFACTURER'S RECOMMENDATIONS WITH  
FREEZE-RESISTANT OPTIONS.  
CONNECT WATER LINE FROM POOL HOUSE,  
CONNECT DRAINS TO STORM WATER SYSTEM.



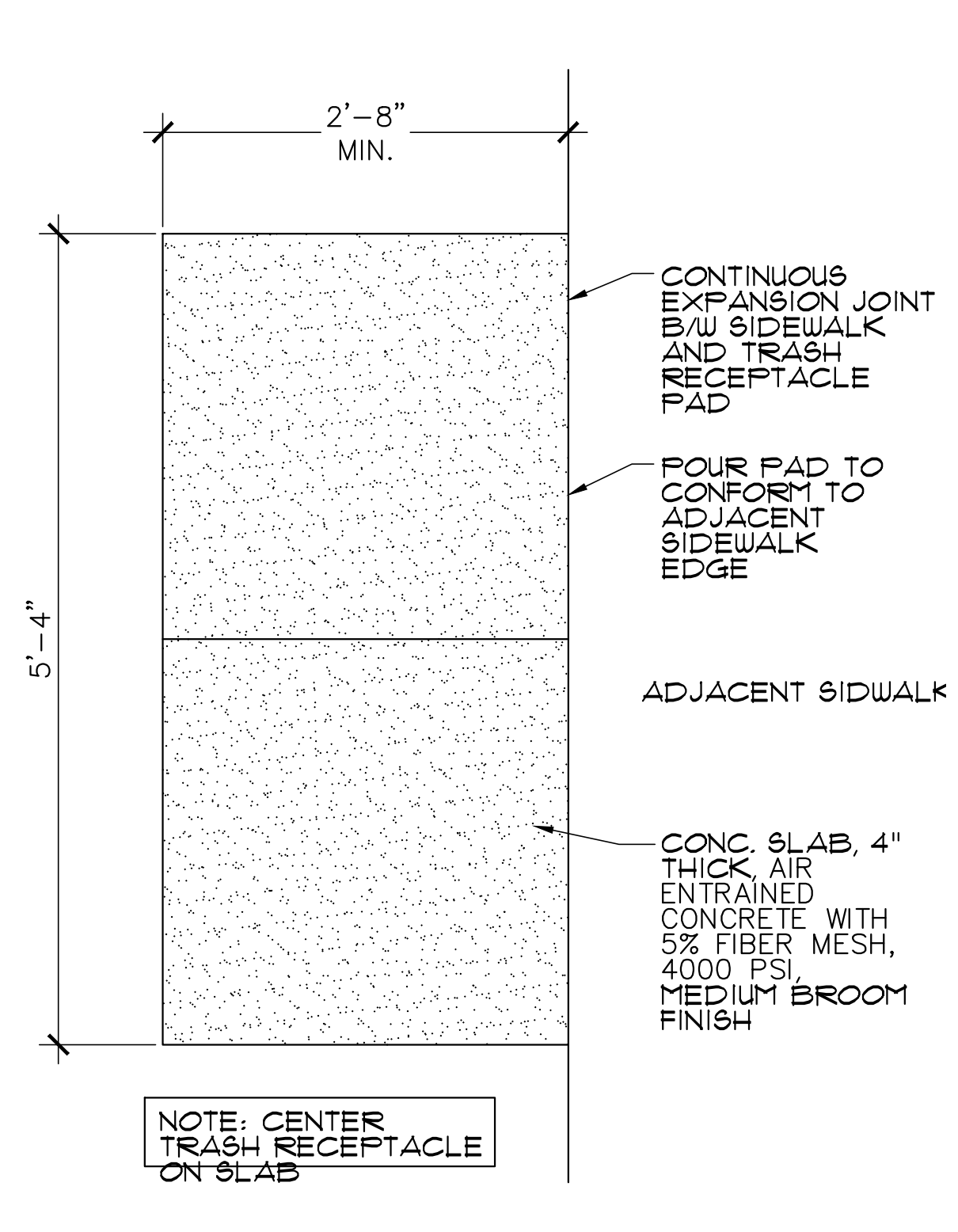
1 DRINKING FOUNTAIN  
SCALE: 1"=1'-0"



2 CONC. TRASH RECEPTACLE PAD  
SCALE: 1"=1'-0"



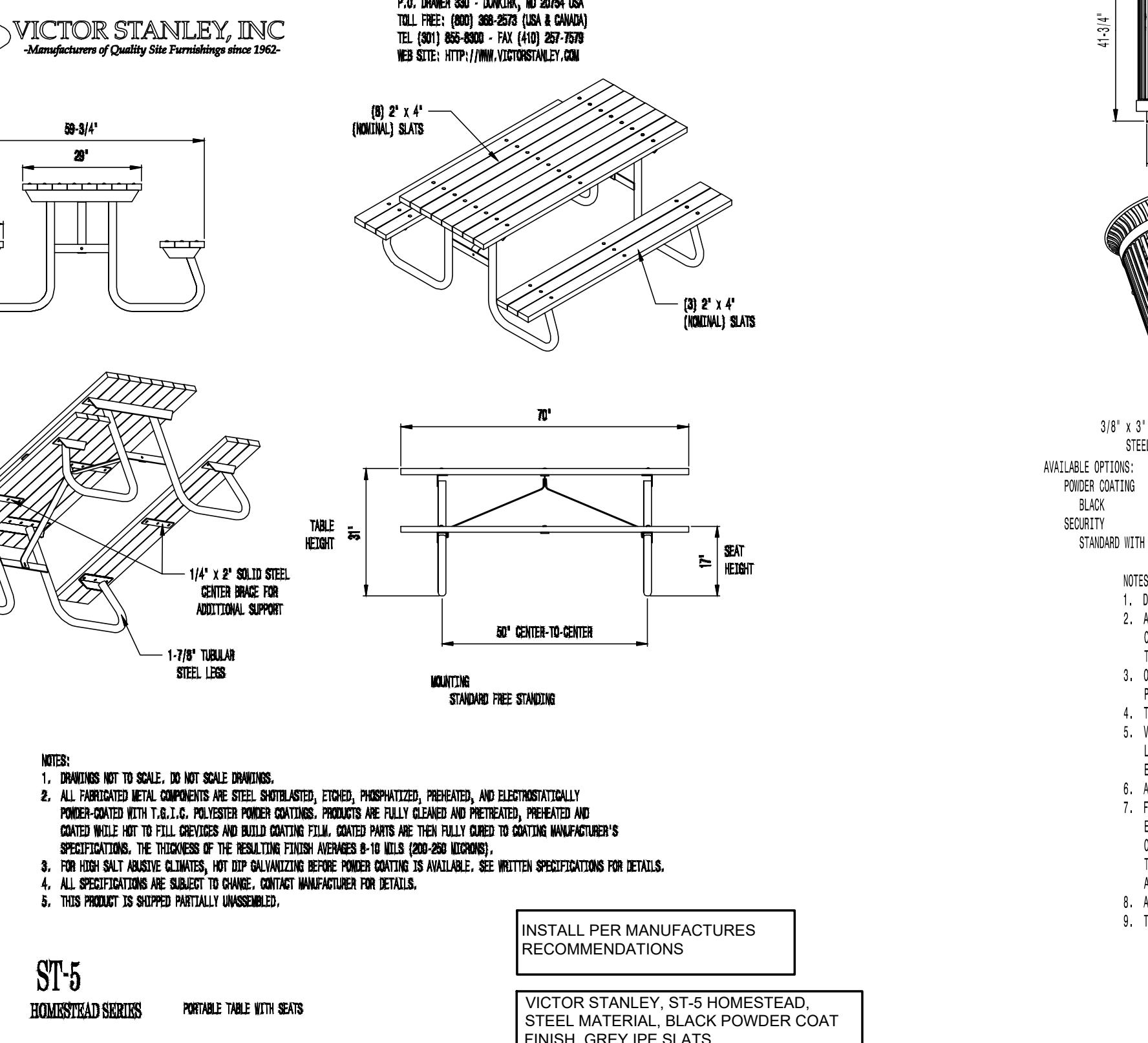
3 CONCRETE BENCH PAD  
SCALE: 1"=1'-0"



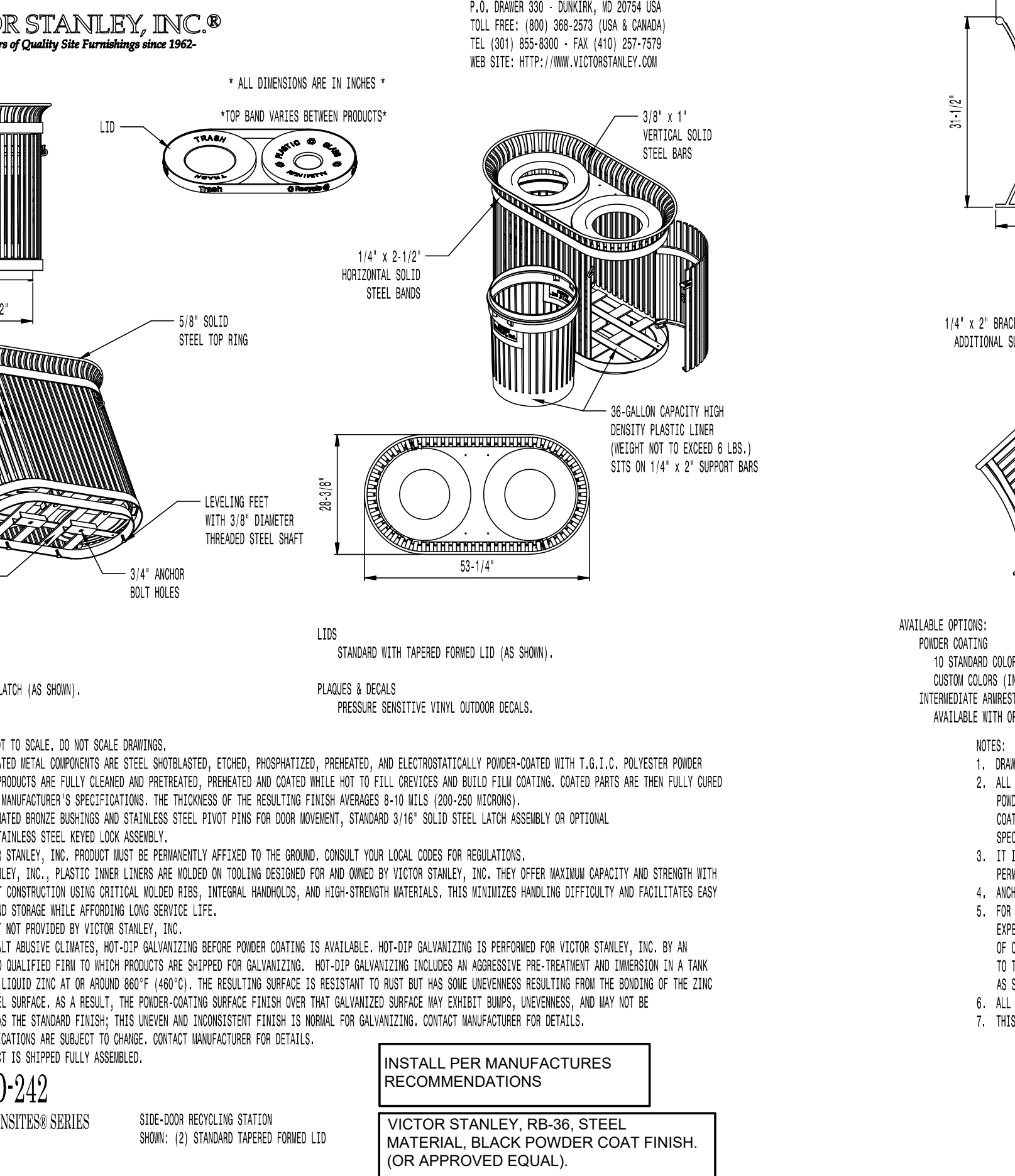
4 CONC. TRASH/RECYCLE PAD  
SCALE: 1"=1'-0"

ADA PICNIC TABLE MODEL #CV6-5370-ADA-PF WITH 6  
FOOT BENCH SEATING, FREESTANDING MOUNT,  
POWDER COAT FINISH, COLOR: SATIN BLACK, BY  
SITESCAPES, P.O. BOX 22326, LINCOLN, NE 68542,  
888-331-9464, SITESCAPESONLINE.COM, OR  
APPROVED EQUAL.

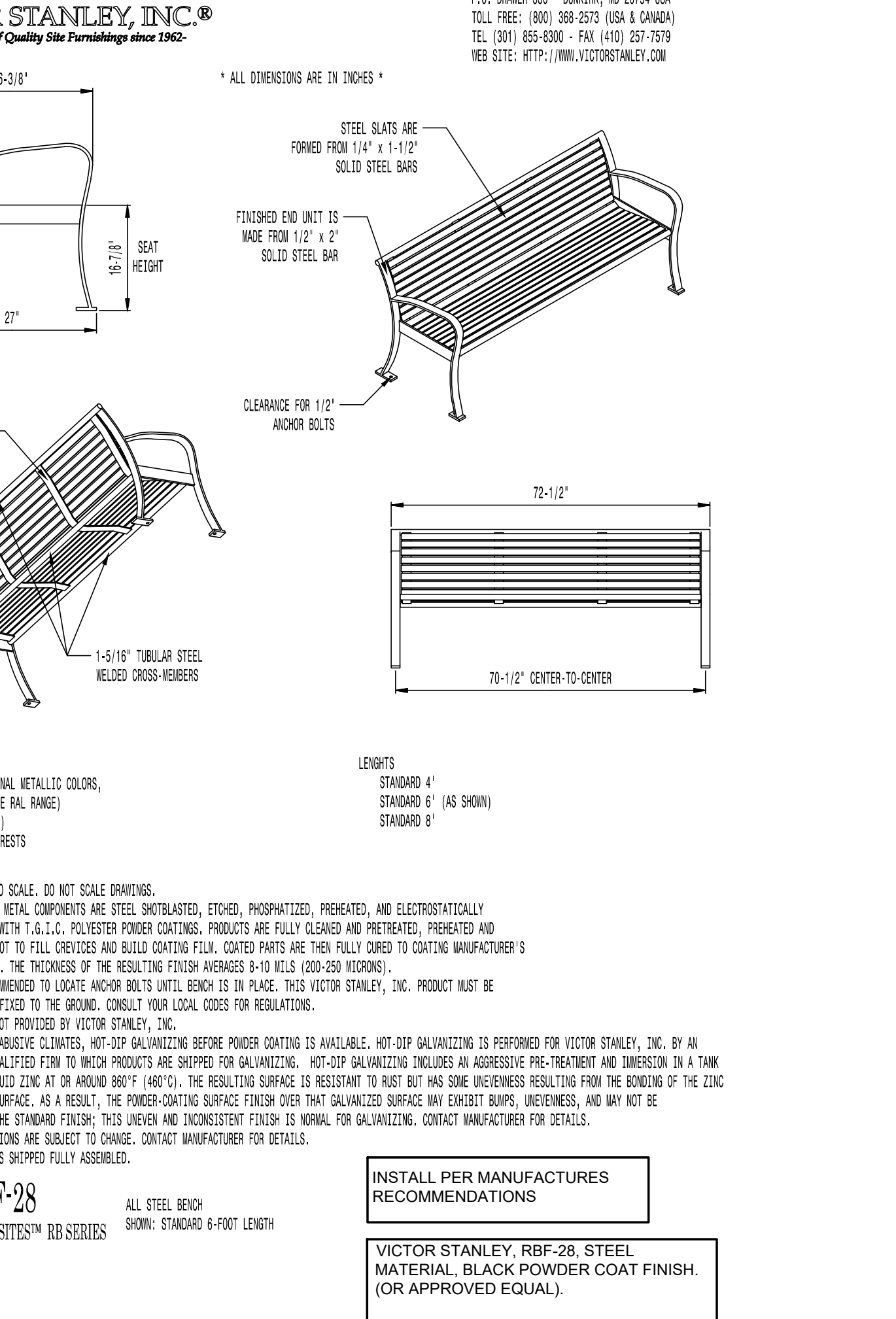
5 ADA PICNIC TABLE - ALTERNATE  
NOTE ONLY



6 PICNIC TABLE  
NOT TO SCALE



7 TRASH RECEPTACLE  
NOT TO SCALE



8 BENCH  
N.T.S.



9 BIKE RACK  
NOT TO SCALE

VICTOR STANLEY, INC.  
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAVER 300 - DUNCAN, MO 20754 USA  
TOLL FREE: (800) 368-2370 (USA & CANADA)  
TEL: (314) 655-8000 - FAX: (314) 257-7579  
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

\* ALL DIMENSIONS ARE IN INCHES \*

\*TOP BAND SPACES BETWEEN PRODUCTS\*

3/8" x 11" VERTICAL SOLID STEEL BARS

1/4" x 2-1/2" HORIZONTAL SOLID STEEL BARS

5/8" SOLID STEEL TOP RING

36-GALLON CAPACITY HIGH DENSITY POLYETHYLENE LINER (PERMIT NOT TO EXCEED 6 LBS.) SETS ON 1/4" x 2" SUPPORT BARS

LEVELING FEET WITH 3/8" DIAMETER THREADED STEEL SHAFT

3/8" x 3" SOLID STEEL BARS

3/4" ANCHOR BOLT HOLES

AVAILABLE OPTIONS:  
POWDER COATING  
BLACK  
SECURITY  
STANDARD WITH LOCKABLE LATCH (AS SHOWN)

NOTES:  
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.  
2. ALL FABRICATED METAL COMPONENTS ARE STEEL, BLENDED, FINISH, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.A.C.O. POLYESTER POWDER COATING. PRODUCTS ARE FULLY CLEANED AND PREHEATED, PHOSPHATIZED AND COATED WHILE HOT TO FULL COVERAGE AND BUILT TO FULL STRENGTH. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH VARIES 6-10 MILS (SEE VICTOR'S SPECIFICATIONS). THE THICKNESS OF THE RESULTING FINISH VARIES 6-10 MILS (SEE VICTOR'S SPECIFICATIONS).  
3. FOR HIGH SALT AMBIENT CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. CONTACT MANUFACTURER FOR DETAILS.  
4. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.  
5. THIS PRODUCT IS SHIPPED PARTIALLY ASSEMBLED.

INSTALL PER MANUFACTURER'S RECOMMENDATIONS

VICTOR STANLEY, ST-5 HOMESTEAD, STEEL MATERIAL, BLACK POWDER COAT FINISH, GREY PIPE SLATS. (OR APPROVED EQUAL).

VICTOR STANLEY, INC.  
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAVER 300 - DUNCAN, MO 20754 USA  
TOLL FREE: (800) 368-2370 (USA & CANADA)  
TEL: (314) 655-8000 - FAX: (314) 257-7579  
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

\* ALL DIMENSIONS ARE IN INCHES \*

26-3/8"

18"

14"

SEAT HEIGHT

LEG HEIGHT

STEEL SLATS ARE FORMED FROM 1/4" x 1-1/2" SOLID STEEL BARS

FINISHED END LIMIT IS WAVE FROM 1/2" x 2" SOLID STEEL BAR

CLEARANCE FOR 1/2" ANCHOR BOLTS

1/4" x 2" BRACES FOR ADDITIONAL SUPPORT

1-3/16" TUBULAR STEEL REINFORCED MEMBERS

28-1/2"

70-1/2" CENTER-TO-CENTER

AVAILABLE OPTIONS:  
POWDER COATING  
2 TO STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,  
CUSTOM COLORS (INCLUDING THE RAL RANGE)  
INTERMEDIATE AMBIENTS (SEE LIST)

LEGEND:  
STANDARD 4" (AS SHOWN)  
STANDARD 6"

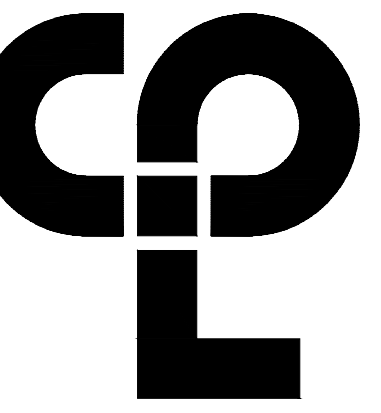
NOTES:  
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.  
2. ALL FABRICATED METAL COMPONENTS ARE STEEL, BLENDED, FINISH, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.A.C.O. POLYESTER POWDER COATING. PRODUCTS ARE FULLY CLEANED AND PREHEATED, PHOSPHATIZED AND COATED WHILE HOT TO FULL COVERAGE AND BUILT TO FULL STRENGTH. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH VARIES 6-10 MILS (SEE VICTOR'S SPECIFICATIONS). THE THICKNESS OF THE RESULTING FINISH VARIES 6-10 MILS (SEE VICTOR'S SPECIFICATIONS).  
3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.  
4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.  
5. FOR HIGH SALT AMBIENT CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. CONTACT MANUFACTURER FOR DETAILS.  
6. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.  
7. FOR HIGH SALT AMBIENT CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. CONTACT MANUFACTURER FOR DETAILS.  
8. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.  
9. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

RBF-28  
STEEL MATERIAL, BLACK POWDER COAT FINISH, (OR APPROVED EQUAL)

INSTALL PER MANUFACTURER'S RECOMMENDATIONS

VICTOR STANLEY, RBF-28, STEEL MATERIAL, BLACK POWDER COAT FINISH. (OR APPROVED EQUAL).

PARK-IT POWDER-COATED STEEL BIKE RACKS: SKU TBR-01A BY TREE TOP PRODUCTS, OR APPROVED EQUAL. 1-866-511-6642 WWW.TREETOPPRODUCTS.COM/PARK-IT-POWDER-COATED-STEEL-BIKE-RACKS



CPL | Architecture Engineering Planning  
3011 SUITON GATE DR. SUITE 130  
SUWANEE, GA 30024  
CPLteam.com

**PROJECT INFORMATION**  
Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**  
1 01-24-2023 LDP CITY COMMENT #1  
2 02-02-2023 BUILDING PERMIT  
3 02-02-2023 LDP CITY COMMENT #2  
4 02-02-2023 LDP CITY COMMENT #3

**Polygon Wood Shelter Specification Form**

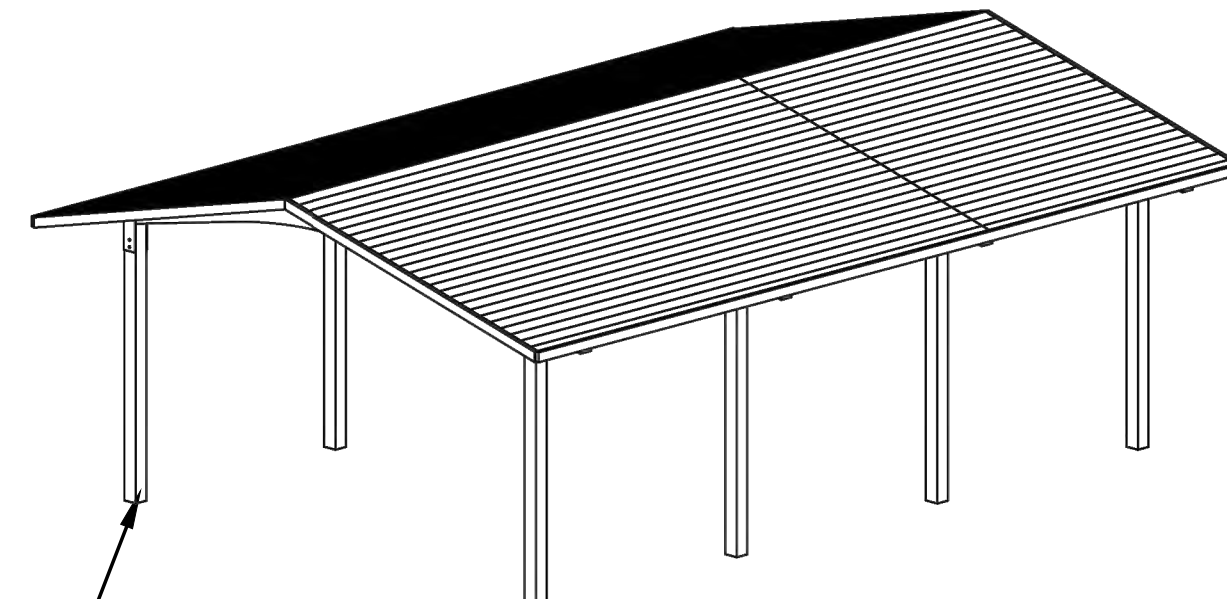
by **PORTERCORP**  
PORTERCORP, 4240 N. 136th AVE., HOLLAND, MI 49424  
www.polygon.com 616-399-1963

PROJECT NAME: \_\_\_\_\_  
PROJECT LOCATION: \_\_\_\_\_  
CUSTOMER NAME: \_\_\_\_\_  
E-MAIL: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
ADDRESS 2: \_\_\_\_\_  
CITY: \_\_\_\_\_  
STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
SEISMIC DESIGN: \_\_\_\_\_ BLDG CODE: \_\_\_\_\_

- STANDARD WITH THIS BUILDING:**
- Treated gluelam wooden columns
  - Wooden trusses and purlins
  - Structural steel, hot dip galvanized connection plates
  - Hot dipped galvanized structural fasteners
  - 2x6 SYP tongue and groove primary roof
  - Asphalt shingles with felt and trim
  - Pre-drilled plates and gluelams
  - Embedded column
  - 3:12 pitch
  - 8'-0" under eave height
  - 30 PSF snow load
  - 120 MPH wind load
- SEE NOTE BELOW
- SEE NOTE BELOW
- SEE NOTE BELOW

- SELECT MODIFICATIONS TO A STANDARD:**
- See website for multi-rib roof color choices and wood stain choices: www.polygon.com
- Kynar Multi-rib metal roof instead of asphalt shingles - Roof color: \_\_\_\_\_
  - Stained tongue and groove roof - Stain choice: \_\_\_\_\_
  - Stained columns and trusses - Stain choice: \_\_\_\_\_
  - Increase snow load: \_\_\_\_\_
  - Increase wind load: \_\_\_\_\_
  - Increase under eave height (up to 12'): \_\_\_\_\_ BELOW
  - Substitute surface mount for embedded column SEE NOTE BELOW

**Low Pitched Gable Wood Shelter WLG**



3 PAVILION COLUMN, TYP.

INSTALL PER MANUFACTURERS RECOMMENDATIONS

**Standard Available Sizes**

<input type="checkbox"/> WLG 16X20	<input type="checkbox"/> WLG 20X36	<input type="checkbox"/> WLG 24X44	<input type="checkbox"/> WLG 30X60	<input type="checkbox"/> WLG 40X44
<input type="checkbox"/> WLG 16X28	<input type="checkbox"/> WLG 20X44	<input type="checkbox"/> WLG 24X52	<input type="checkbox"/> WLG 36X36	<input type="checkbox"/> WLG 40X52
<input type="checkbox"/> WLG 16X36	<input type="checkbox"/> WLG 20X52	<input type="checkbox"/> WLG 30X36	<input type="checkbox"/> WLG 36X44	<input type="checkbox"/> WLG 40X60
<input type="checkbox"/> WLG 16X44	<input type="checkbox"/> WLG 24X28	<input type="checkbox"/> WLG 30X44	<input type="checkbox"/> WLG 36X52	<input type="checkbox"/> WLG 50X52
<input checked="" type="checkbox"/> WLG 20X28	<input type="checkbox"/> WLG 24X36	<input type="checkbox"/> WLG 30X52	<input type="checkbox"/> WLG 36X60	<input type="checkbox"/> WLG 50X60

**Sheet Index**

COVER SHEET / ORDER FORM
ELEVATION VIEWS
STRUCTURAL FRAME
COLUMN LAYOUT

See website for multi-rib roof color choices and wood stain choices.  
www.polygon.com

SHELTER MODEL: WOOD RECTANGLE WLG

SCALE: 1:40 REV LEVEL: A DATE: 9/1/2011

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by **PORTERCORP**  
PORTERCORP, 4240 N. 136th AVE., HOLLAND, MI 49424  
www.polygon.com 616-399-1963

SHEET COVER SHEET

NOTE: THIS IS A PLANNING LEVEL DRAWING. THE STRUCTURE SHOWN IS SUBJECT TO ON-GOING DESIGN REVIEW AND UPDATE. EXPECT SOME CHANGES TO MATERIAL SIZES AND GENERAL DIMENSIONS. ONLY USE DRAWINGS PROVIDED WITH ENGINEERED STRUCTURES FOR CONSTRUCTION.

INSTALL PER MANUFACTURERS RECOMMENDATIONS

THIS SHELTER PROVIDES 560 SQ. FT. OF SHADE.

SHELTER MODEL: WOOD RECTANGLE 20X28 WLG 20X28

SCALE: 1:65 REV LEVEL: A DATE: 9/1/2011

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by **PORTERCORP**  
PORTERCORP, 4240 N. 136th AVE., HOLLAND, MI 49424  
www.polygon.com 616-399-1963

SHEET ELEVATION VIEWS

NOTE: THIS IS A PLANNING LEVEL DRAWING. THE STRUCTURE SHOWN IS SUBJECT TO ON-GOING DESIGN REVIEW AND UPDATE. EXPECT SOME CHANGES TO MATERIAL SIZES AND GENERAL DIMENSIONS. ONLY USE DRAWINGS PROVIDED WITH ENGINEERED STRUCTURES FOR CONSTRUCTION.

INSTALL PER MANUFACTURER RECOMMENDATIONS

SHELTER MODEL: WOOD RECTANGLE 20X28 WLG-20X28

SCALE: 1:65 REV LEVEL: A DATE: 9/1/2011

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by **PORTERCORP**  
PORTERCORP, 4240 N. 136th AVE., HOLLAND, MI 49424  
www.polygon.com 616-399-1963

SHEET FRAME VIEWS

NOTE: THIS IS A PLANNING LEVEL DRAWING. THE STRUCTURE SHOWN IS SUBJECT TO ON-GOING DESIGN REVIEW AND UPDATE. EXPECT SOME CHANGES TO MATERIAL SIZES AND GENERAL DIMENSIONS. ONLY USE DRAWINGS PROVIDED WITH ENGINEERED STRUCTURES FOR CONSTRUCTION.

INSTALL PER MANUFACTURER RECOMMENDATIONS

SHELTER MODEL: WOOD RECTANGLE 20X28 WLG-20X28

SCALE: 1:40 REV LEVEL: A DATE: 9/1/2011

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by **PORTERCORP**  
PORTERCORP, 4240 N. 136th AVE., HOLLAND, MI 49424  
www.polygon.com 616-399-1963

SHEET COLUMN LAYOUT

- NOTES:**
- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
  - ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
  - FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.

NOTE: SEE SHEET C606 FOR FOOTINGS

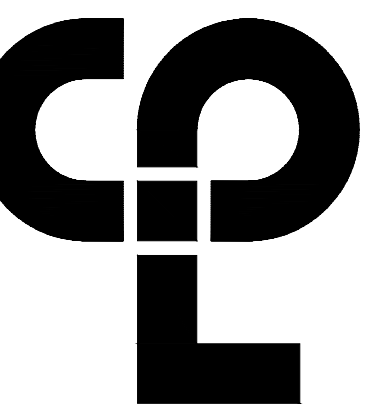
- NOTE: SEE SHEET C605 FOR STONE BASE ON COLUMNS 30" HT. NOTE: WOOD POST TO BE SET IN SADDLE ON SLAB
- DRAWINGS SAME FOR BOTH PAVILIONS (GARDEN PAVILION AND TENNIS PAVILION)

- NOTE - STANDARD WLG-20X28 IS FOR INFO ONLY. THE POLYGON STRUCTURE TO BE ORDERED AND INSTALLED IS
  - a. CUSTOM WLG 20X28 ORDER NO. 1242023, WHICH INCLUDES THE FOLLOWING POLYGON MODIFICATIONS:
  - b. KYNAR MULTI-RIB METAL ROOF INSTEAD OF ASPHALT SHINGLES. ROOF COLOR TO BE SELECTED BY OWNER BEFORE ORDER IS PLACED.
  - c. 6:12 ROOF PITCH
  - d. STAINED TONGUE AND GROOVE ROOFCEILING. STAIN COLOR TO BE SELECTED BY OWNER BEFORE ORDER IS PLACED.
  - e. STAINED WOOD COLUMNS AND TRUSSES. STAIN COLOR TO BE SELECTED BY OWNER BEFORE ORDER IS PLACED.
  - f. INCREASE UNDER EAVE HEIGHT TO 8'-0"
  - g. 10" WOOD POSTS WITH EMBEDMENT STYLE-DIRECT BURY
  - h. STRUCTURAL CONNECTION PLATES AND HARDWARE ARE TO BE FACTORY FINISHED BLACK BY POLYGON.
  - i. POLYGON CONTACT FOR PLACING ORDER: ALLISON HASLEY HASLEY RECREATION, INC. P.O. BOX 489 FLOWERY BRANCH, GA 30542 770-965-4042 (OFFICE) 706-338-6004 (CELL)



**SHEET INFORMATION**  
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Date: 12/01/2022  
Drawn By: MS  
Checked By: LAC  
Design Title: SITE DETAILS 5

Sheet Size: 30x42  
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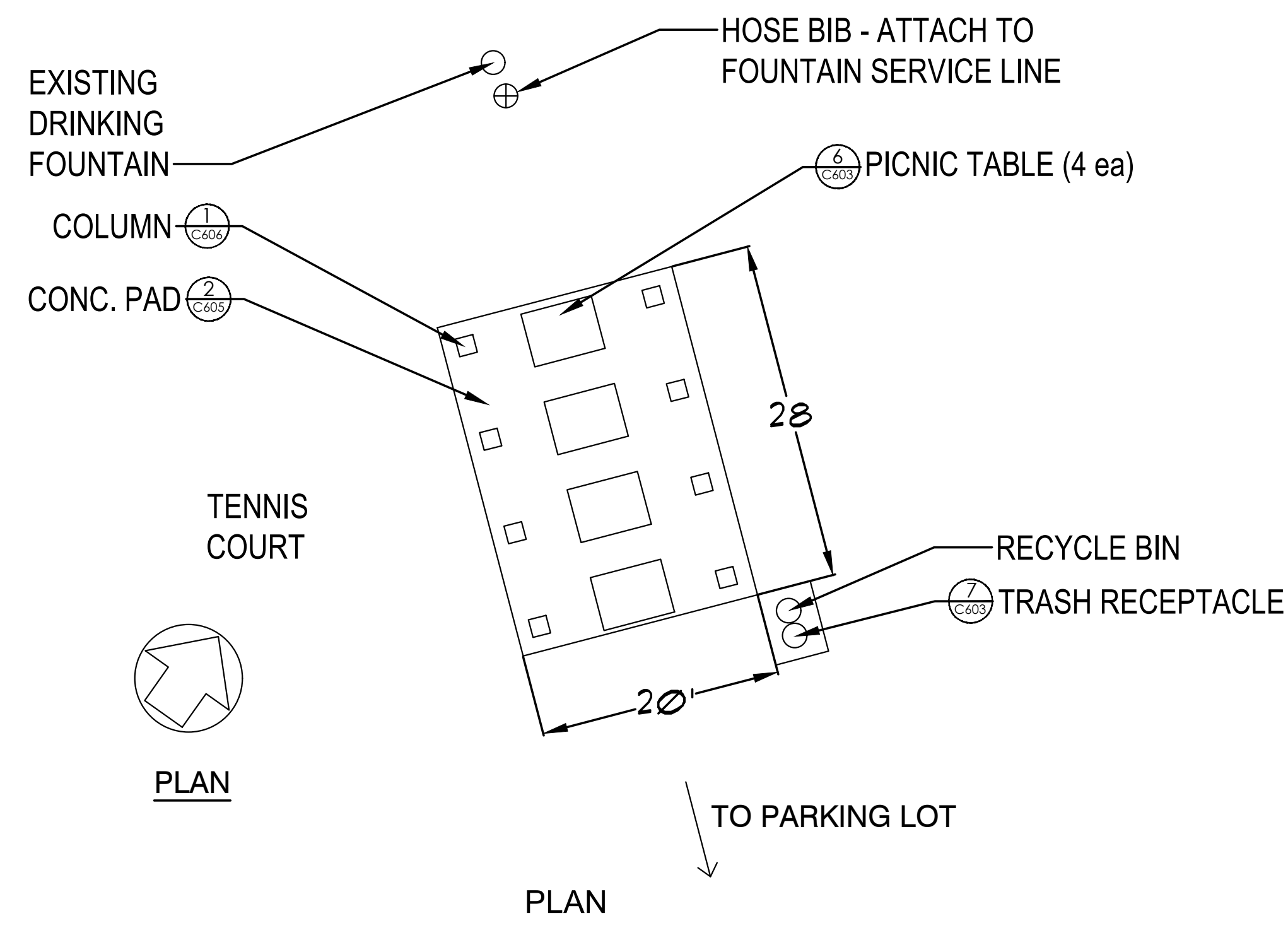
**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

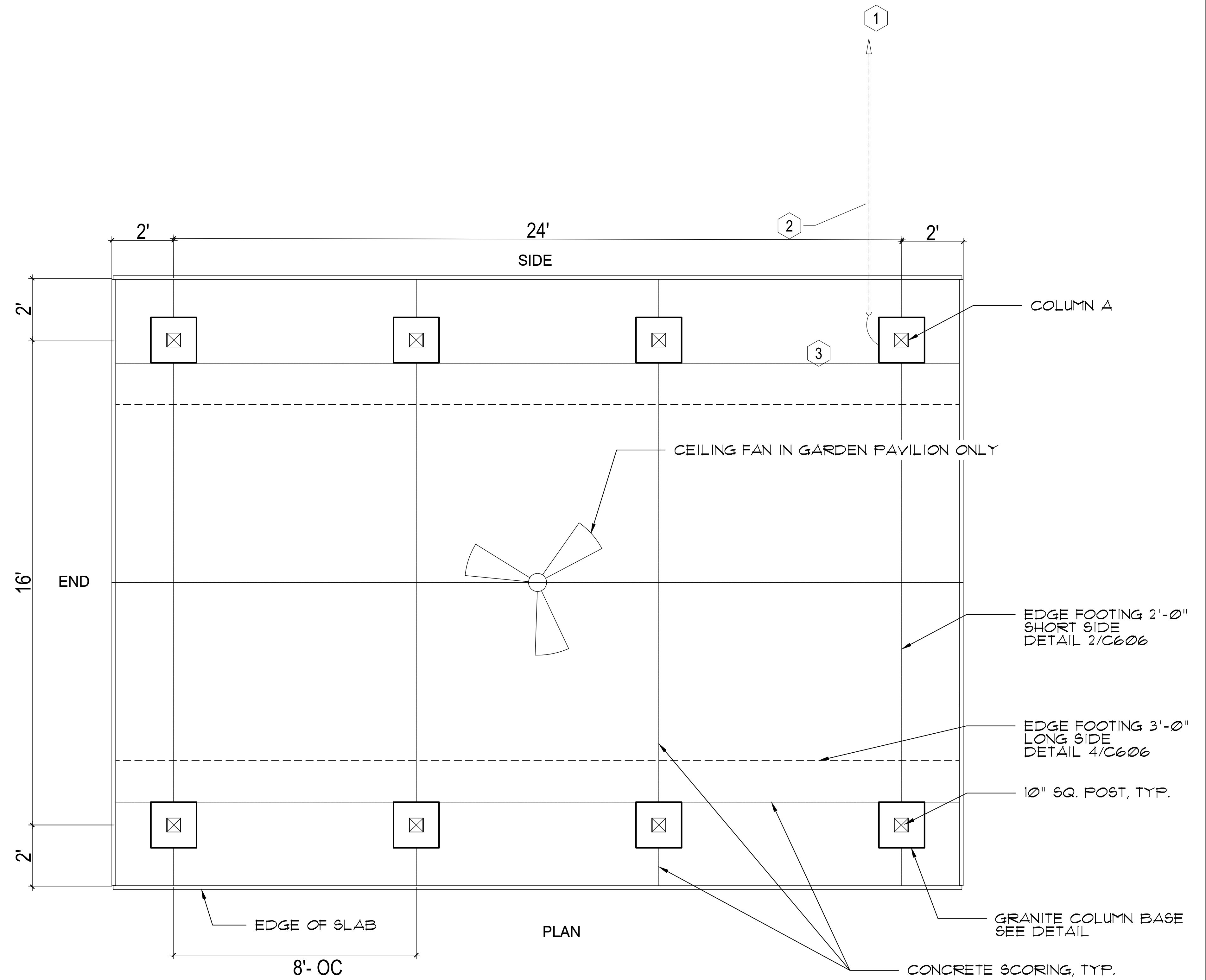
Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	01-24-2023	LDP CITY COMMENT #1
2	02-02-2023	BUILDING PERMIT
3	02-02-2023	LDP CITY COMMENT #2
4	03-27-2023	LDP CITY COMMENT #3



1 TENNIS PAVILION LAYOUT  
SCALE 1"=2'-0"



2 PAVILION PAD LAYOUT - PLAN  
SCALE 1/2"=1'-0"

**CONSTRUCTION NOTES ELECTRICAL**

- 3/4" SCHED. 80 PVC CONDUIT, RUN 2 SETS IN SINGLE TRENCH, BURIED MINIMUM OF 24" BELOW GRADE. PLACE WARNING TAPE IN TRENCH 6" ABOVE CONDUIT. ALL PENETRATIONS THROUGH SLAB TO BE WITH GRC CONDUIT AND LONG SWEEP 90'S. SEE SHEETS ET-2 FOR CONNECTION. PROVIDE LOCK OUTS ON ALL CIRCUIT BREAKERS PROVIDING POWER TO PAVILION.
- 2#10, #100 THIN IN 3/4" PVC STUBBED UP IN BASE OF COLUMN FOR RECEPTACLE CIRCUIT. ALL PENETRATIONS THROUGH SLAB TO BE WITH GRC CONDUIT AND LONG SWEEP 90'S.
- NAFTA COMPLIANT TAMPER-RESISTANT/WEATHER-RESISTANT 20A SELF TEST DUPLEX GFI, PASS & SEYMOUR MODEL 2007TRWMA. COLOR TO BE DETERMINED BY ARCHITECT. RECEPTACLE TO BE ENCLOSED BY LOCKABLE SINGLE GANG EXTRA-DUTY WHILE-IN-USE WEATHERPROOF COVER, FROSTED PLASTIC, HUBBELL MODEL MM720C.

**NOTES:**

- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
- ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
- FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.

**SHEET NOTES**

- THE INSTALLING CONTRACTOR SHALL OBSERVE ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRIC CODE, NFPA 30A & 52 AND THE INTERNATIONAL FIRE CODE.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL WIRE, CONDUIT, LOW VOLTAGE TRANSFORMERS, HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM THAT MEETS THE DESIGN INTENT AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- REVIEW SITE CONDITIONS PRIOR TO LAYING OUT DEVICES AND EQUIPMENT.
- DEVICES THAT ARE REQUIRED TO BE ADA ACCESSIBLE WILL BE INSTALLED PER ANSI A117.1

**NO ELECTRICAL FOR TENNIS PAVILION  
ELECTRICAL ONLY FOR GARDEN PAVILION**

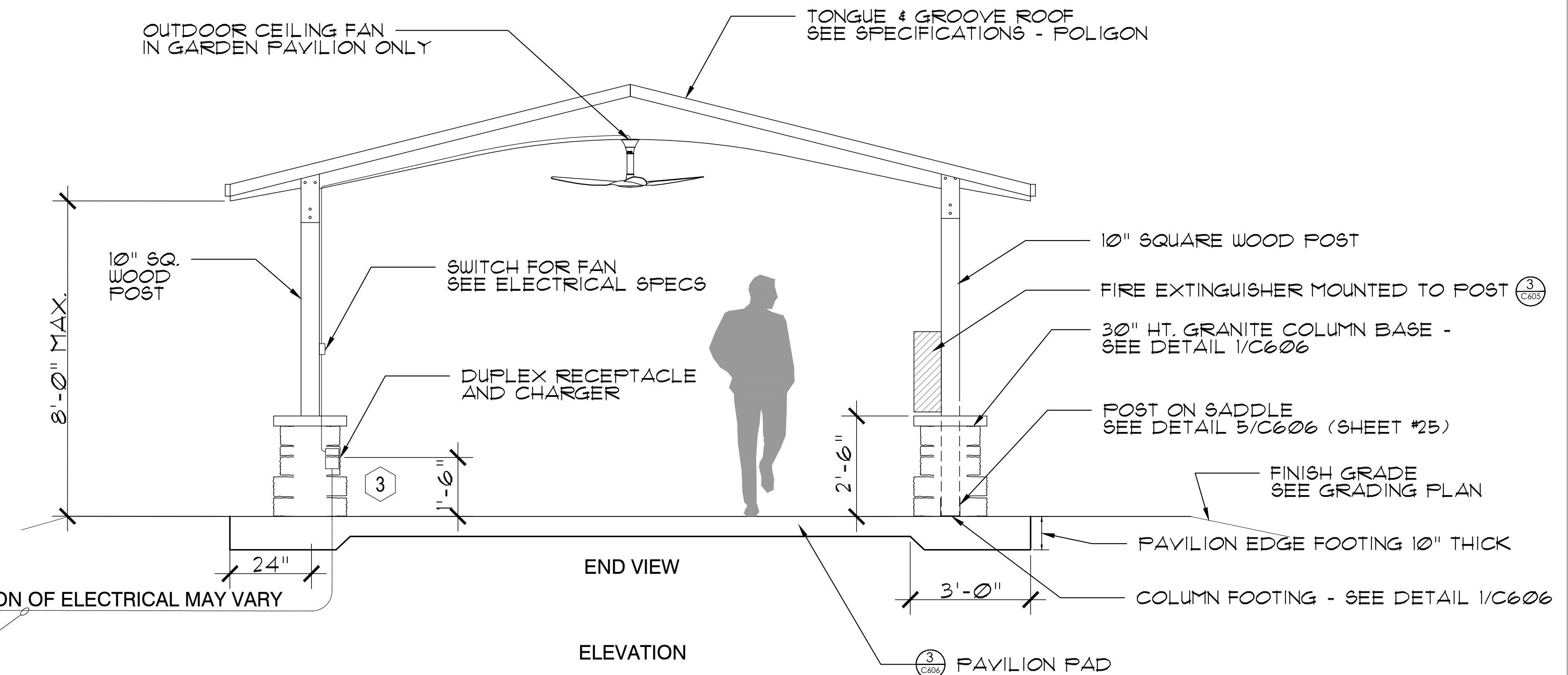
**Fire Extinguisher Cabinet - Breakable, 10 lb**

Attractive steel cabinet minimizes the fire extinguisher look. Reusable.

- Clear plexiglass window. Clean white enamel finish.
- Easy installation. Pick a spot and hang. Sticks out 6" from wall.
- Break plexiglass with attached hammer.
- Fire extinguisher sold separately.

SUPPLIER: U-LINE  
1-800-295-5510

3 FIRE EXTINGUISHER - CABINET  
SCALE: NTS



4 PAVILION PAD - SECTION ELEVATION  
SCALE: 1/2"=1'-0"



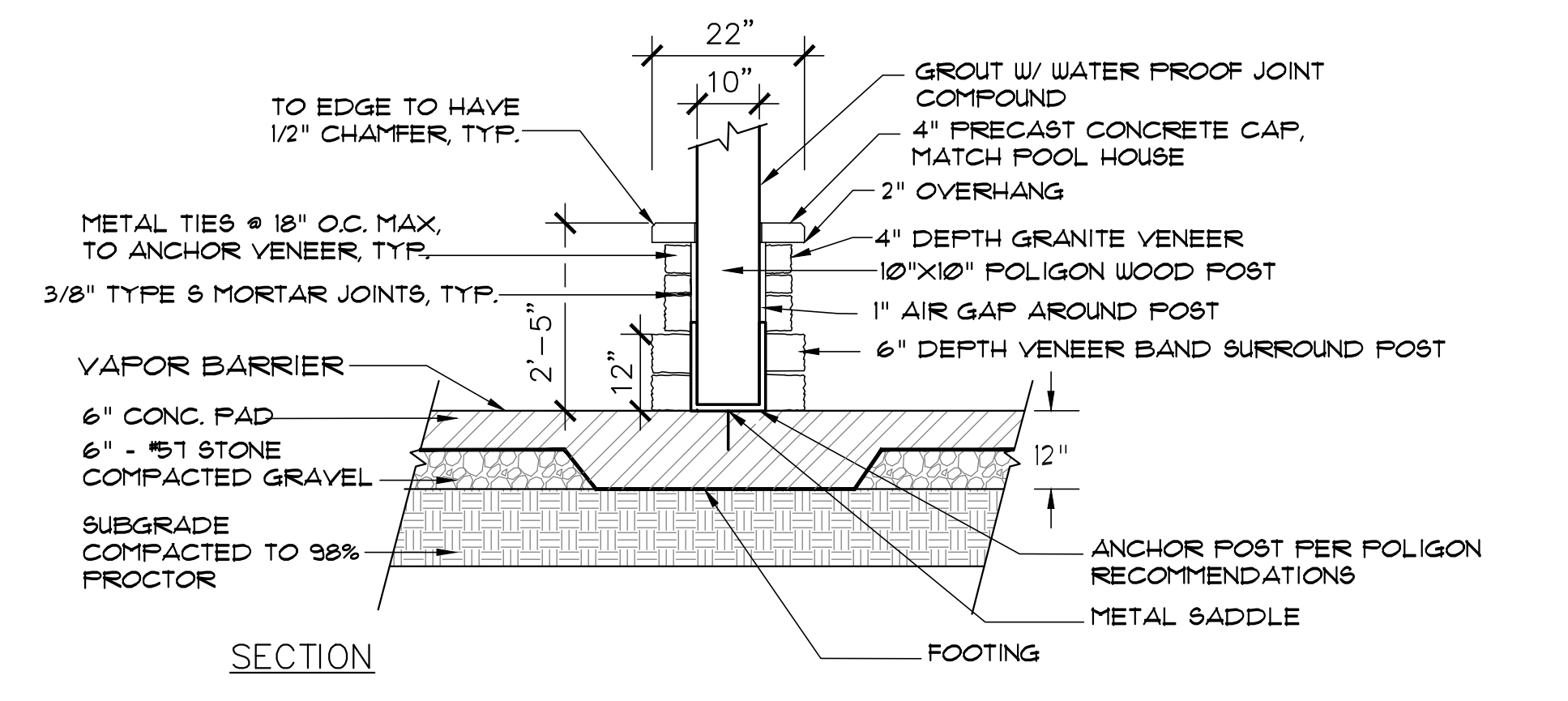
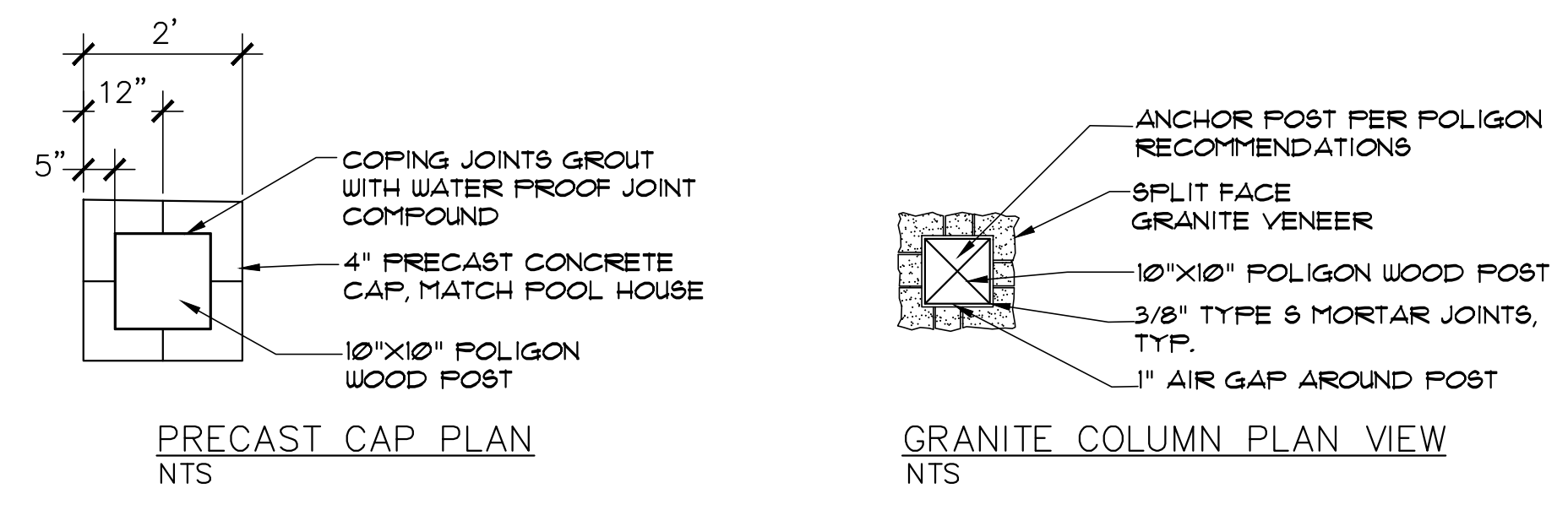
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS REGULATIONS FOR ANY PERSONS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ALTER ANY SEAL OR ANY SEAL BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN ANY MANNER. THE ALTERING PARTY SHALL BE RESPONSIBLE FOR THE VIOLATION AND THE SEALS OF SUCH ALTERATION AND A FURTHER VIOLATION OF THE SEALS OF SUCH ALTERATION AND A FURTHER VIOLATION OF THE SEALS OF SUCH ALTERATION AND A FURTHER VIOLATION OF THE SEALS OF SUCH ALTERATION.

**SHEET INFORMATION**

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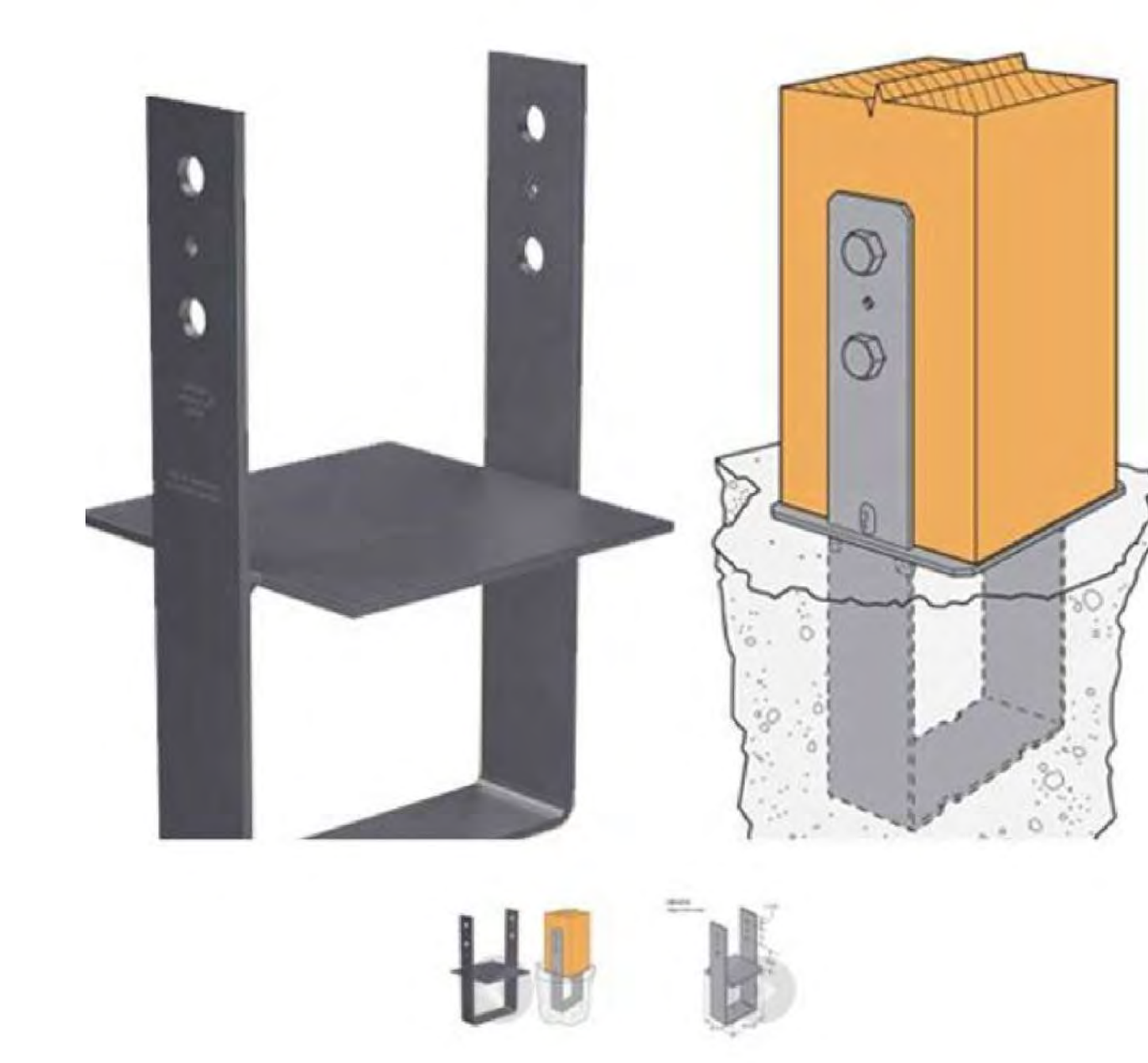
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Plotted By: Catherine Newberry





**1 PAVILION GRANITE COLUMN BASE**
  
 SCALE: 1/2" = 1'-0"

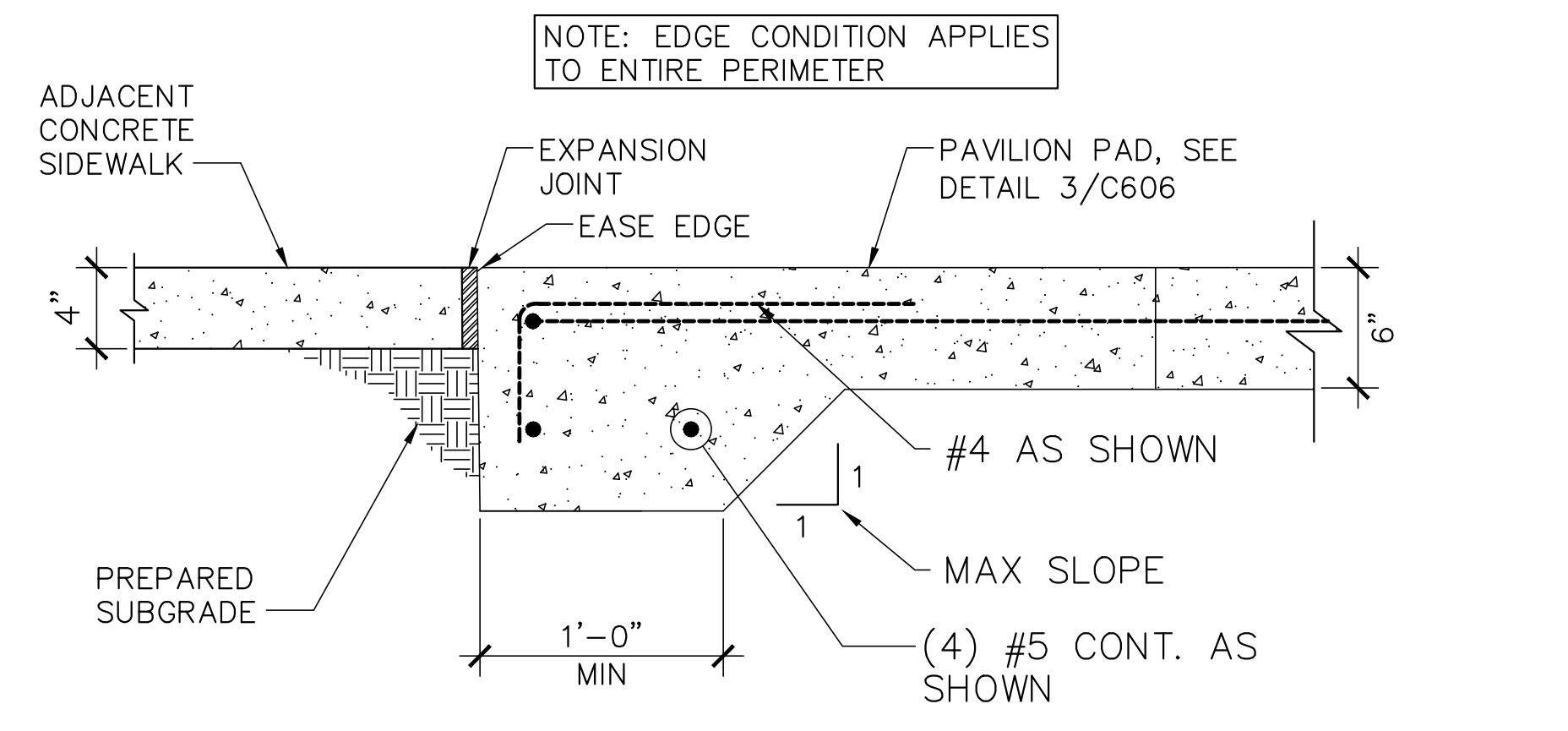
- PAVILION COLUMN MATERIAL NOTES:**
- BROOKHAVEN GRANITE SOURCE IS: DIMENSIONAL STONE ELBERTON, GA CONTACT: DALE WILLIS 706-213-8231**
  - GRANITE VENEER: ELBERTON GRANITE RUBBLE 2" 4" & 6" DEPTH X (WIDTH & HEIGHT VARIES BY STANDARD SIZES)**
    - SOLDER COURSE STONE 3" WIDTH X 4" DEPTH X 8" HEIGHT
  - GRANITE COPING: ELBERTON GRANITE STONE THICKNESS - 3"**
    - FINISHES:
      - TOP = THERMAL
      - FRONT TOP EDGE = EASED
      - FACE = SPLIT-FACE
      - BACK & BOTTOM = SPLIT-FACE
      - SIDES = SAUN
  - WALL VENEER & COPING TO BE APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION**
  - MORTAR COLOR TO MATCH GRANITE**
  - MORTAR COLOR SELECTION TO BE APPROVED BY LANDSCAPE ARCHITECT /OWNER PRIOR TO CONSTRUCTION.**



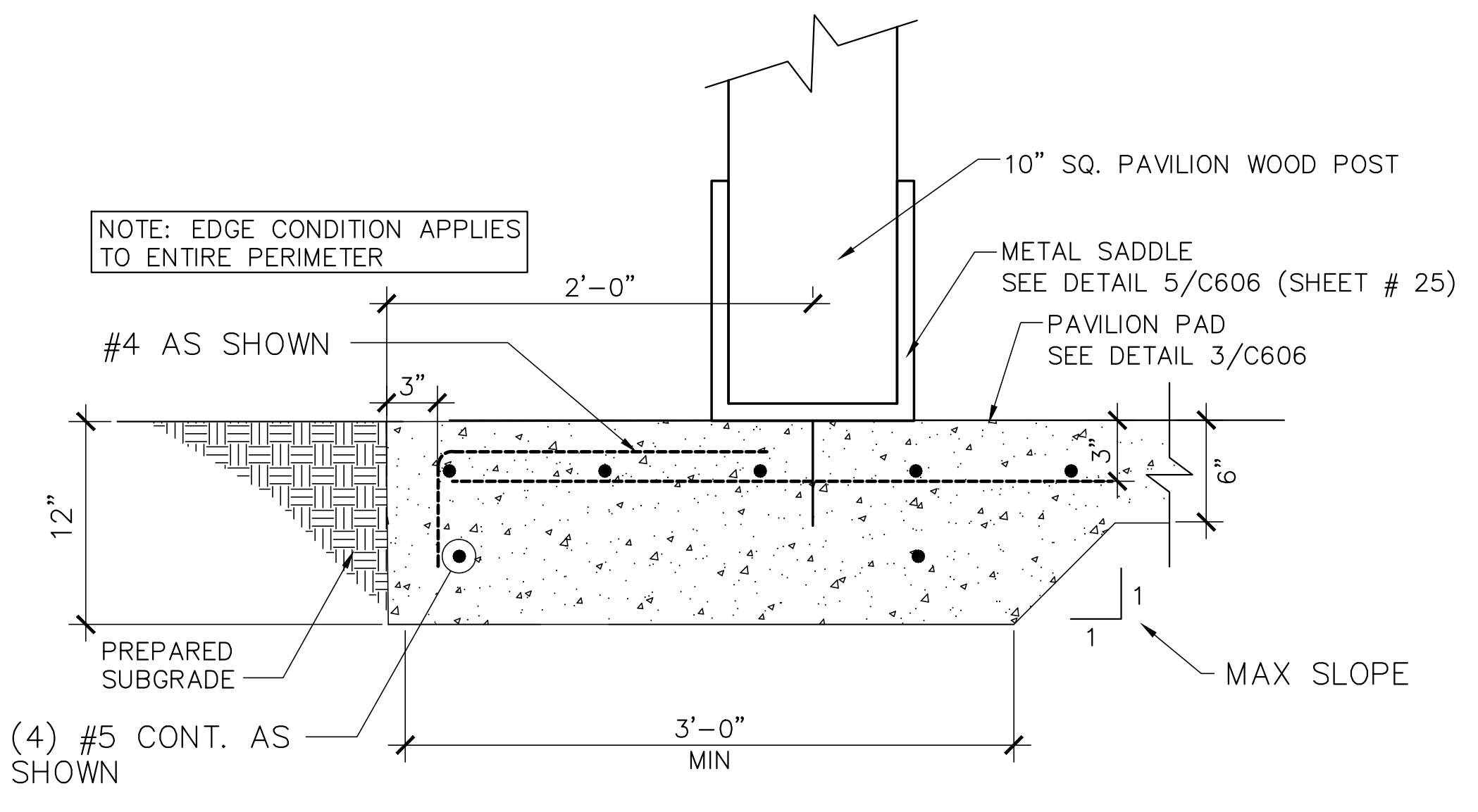
**Simpson Strong-Tie CB1010 Bolt-On 10 x 10 Column Base**
  
 Part Number - **CB1010**
  
 UPC: 044315150005
   
 Availability: Stock -
   
 Usually Ships: Same or Next Business Day

**SIMPSON STRONG-TIE, OR APPROVED EQUAL**
  
 1-800-999-5099
   
 WWW.STRONGTIE.COM

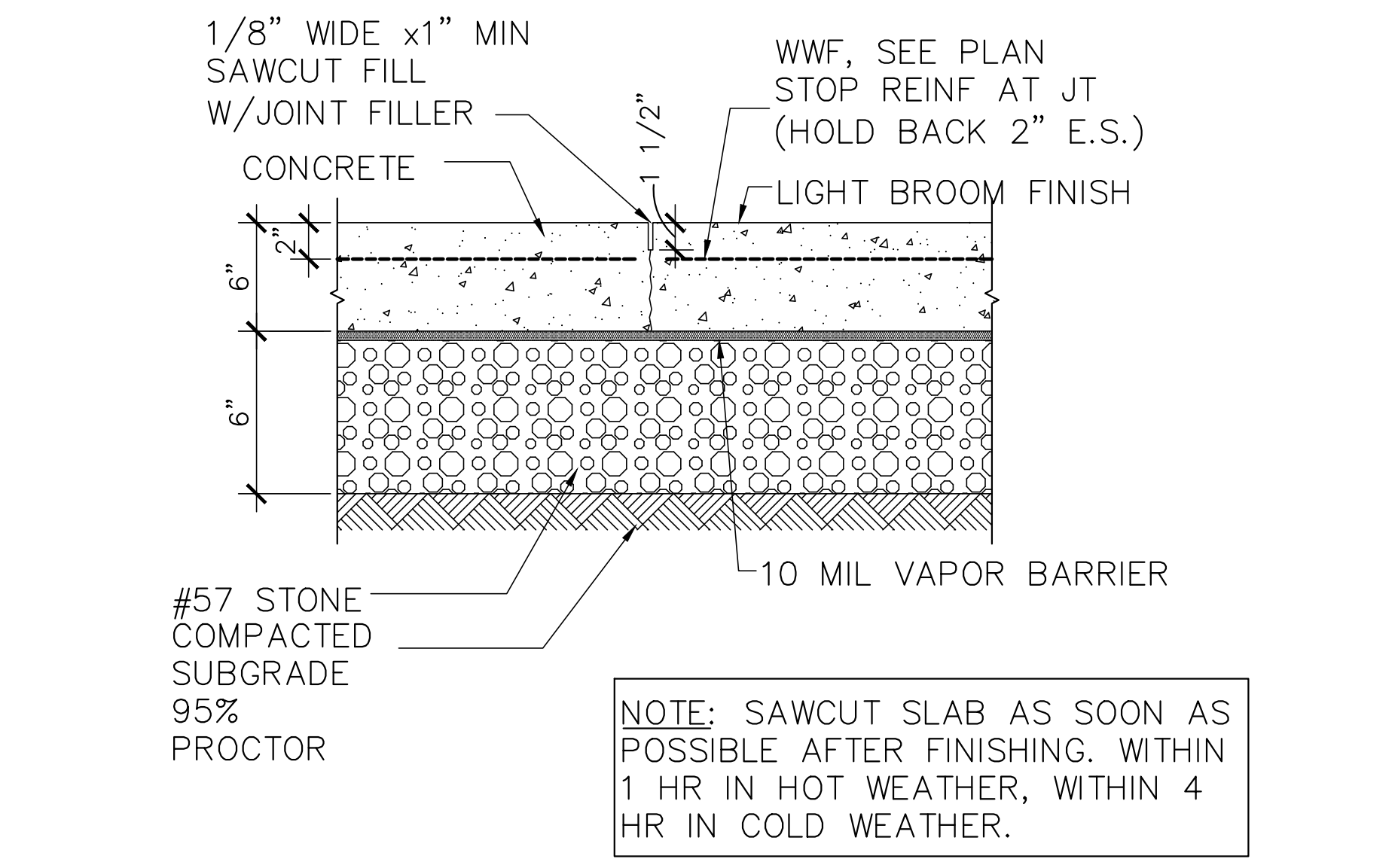
**5 PAVILION POST BASE – RECOMMENDED**
  
 NTS



**2 PAVILION EDGE FOOTING – END SIDE**
  
 SCALE: 1-1/2" = 1'-0"



**4 PAVILION EDGE FOOTING – LONG SIDE**
  
 SCALE: 1-1/2" = 1'-0"



**3 PAVILION PAD – SECTION**
  
 SCALE: 3" = 1'-0"

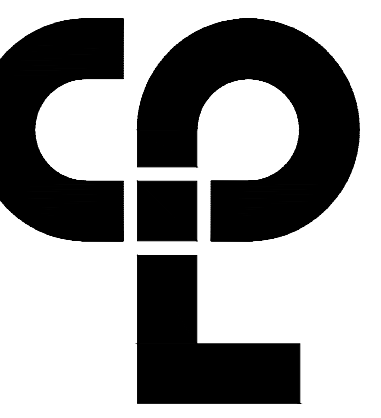
- CAST-IN-PLACE CONCRETE NOTES:**
- ALL CONCRETE WORK, CONSTRUCTION AND REINFORCING DETAILS SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS AND "THE SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS (ACI-318).
  - ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS BELOW:
    - 28 DAY COMPRESSIVE STRENGTH: 3,000 PSI MIN.
    - MAXIMUM WATER CEMENT RATIO: 0.45
    - MAXIMUM SLUMP: 3 INCHES
    - TOTAL AIR CONTENT: 6-1/2 +/- 1-1/2 %
  - THE ALLOWABLE MAXIMUM SLUMP SHOWN ABOVE SHALL BE PRIOR TO ADDING SUPERPLASTICIZER AS APPLICABLE.
  - ALL CONCRETE AGGREGATES SHALL BE NORMAL-WEIGHT.
  - MAXIMIZE SIZE OF COARSE AGGREGATE SHALL BE 3/8".
  - PROVIDE 1/2" CHAMFERS ON ALL EXPOSED CORNERS OF CONCRETE.
  - ALL CONCRETE SHALL RECEIVE A MEDIUM BROOM FINISH.
  - ALL REINFORCING STEEL SHALL BE GRADE 60 KSI, ASTM A615.
  - WHERE PERMITTED WITH PRIOR APPROVAL FROM THE ENGINEER OF RECORD, HILTI HIT-500 EPOXY ADHESIVE ANCHORING SYSTEM SHALL BE USED FOR INSTALLATION OF ALL REINFORCING STEEL INTO EXISTING CONCRETE. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS.

- NOTES:**
- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
  - ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
  - FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMPARABLE REGULATIONS FOR ANY PERSONS:
   
 ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR LANDSCAPE ARCHITECT TO AFFIX HIS OR HER SEAL, SIGN OR SEAL ON ANY DRAWING, SPECIFICATION, REPORT OR OTHER DOCUMENT PREPARED BY HIM OR HER OR ANY OTHER PERSON, AND THE SIGNATURE OF THE ARCHITECT, ENGINEER OR LANDSCAPE ARCHITECT IS REQUIRED BY THE NEW YORK STATE EDUCATION LAW AND THE EDUCATION LAW. THIS SEAL IS VALID ONLY IF IT IS AFFIXED TO THE DRAWING AND THE DATE OF SUCH AFFIXATION AND A PROPER DESCRIPTION OF THE ACTIVATION.

**SHEET INFORMATION**
  
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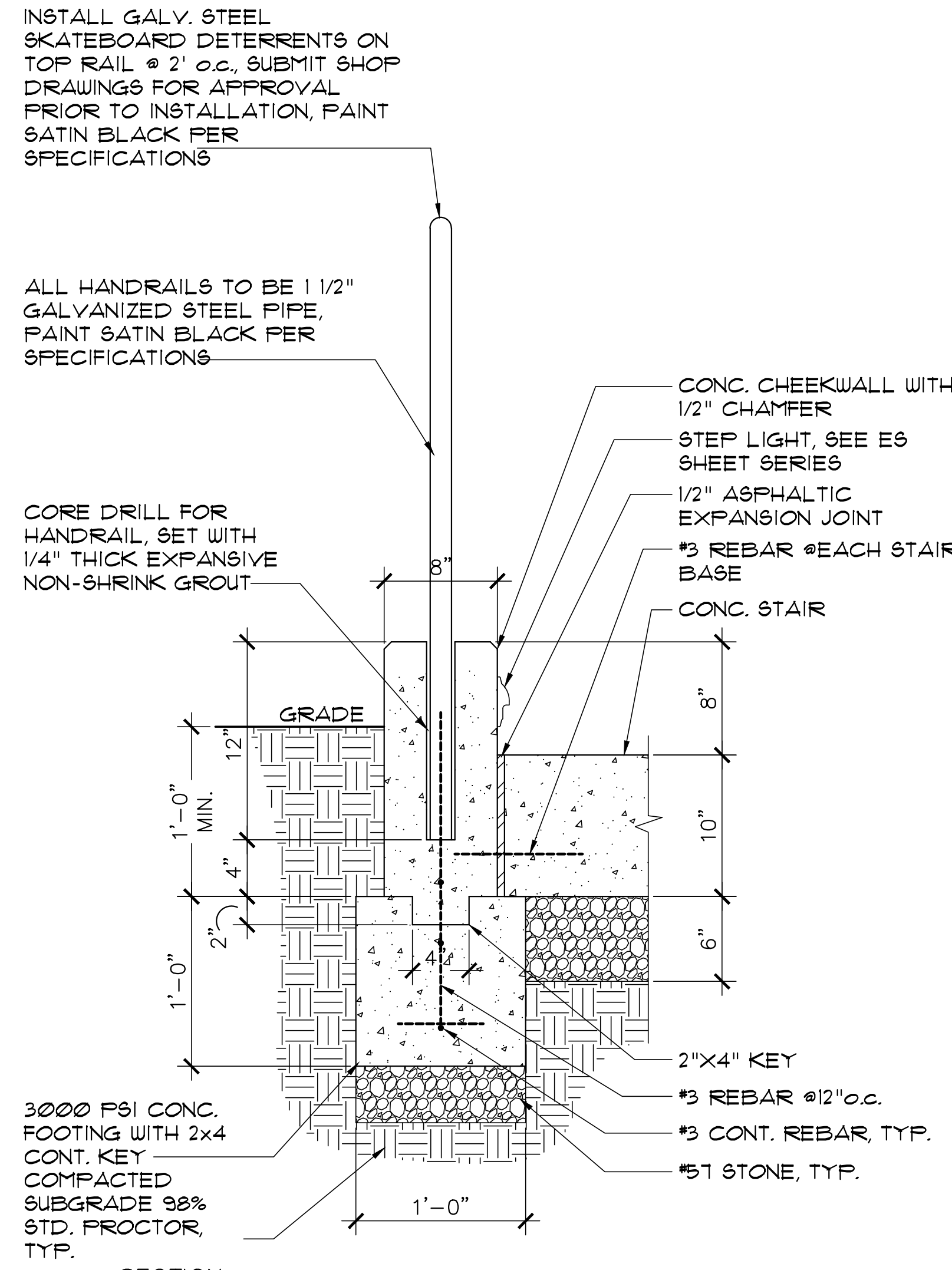
**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev. No.	Date	Description
1	01-24-2023	LDP CIP COMMENT #1
2	01-31-2023	BUILDING PERMIT
3	02-02-2023	LDP CIP COMMENT #2
4	03-27-2023	LDP CIP COMMENT #3

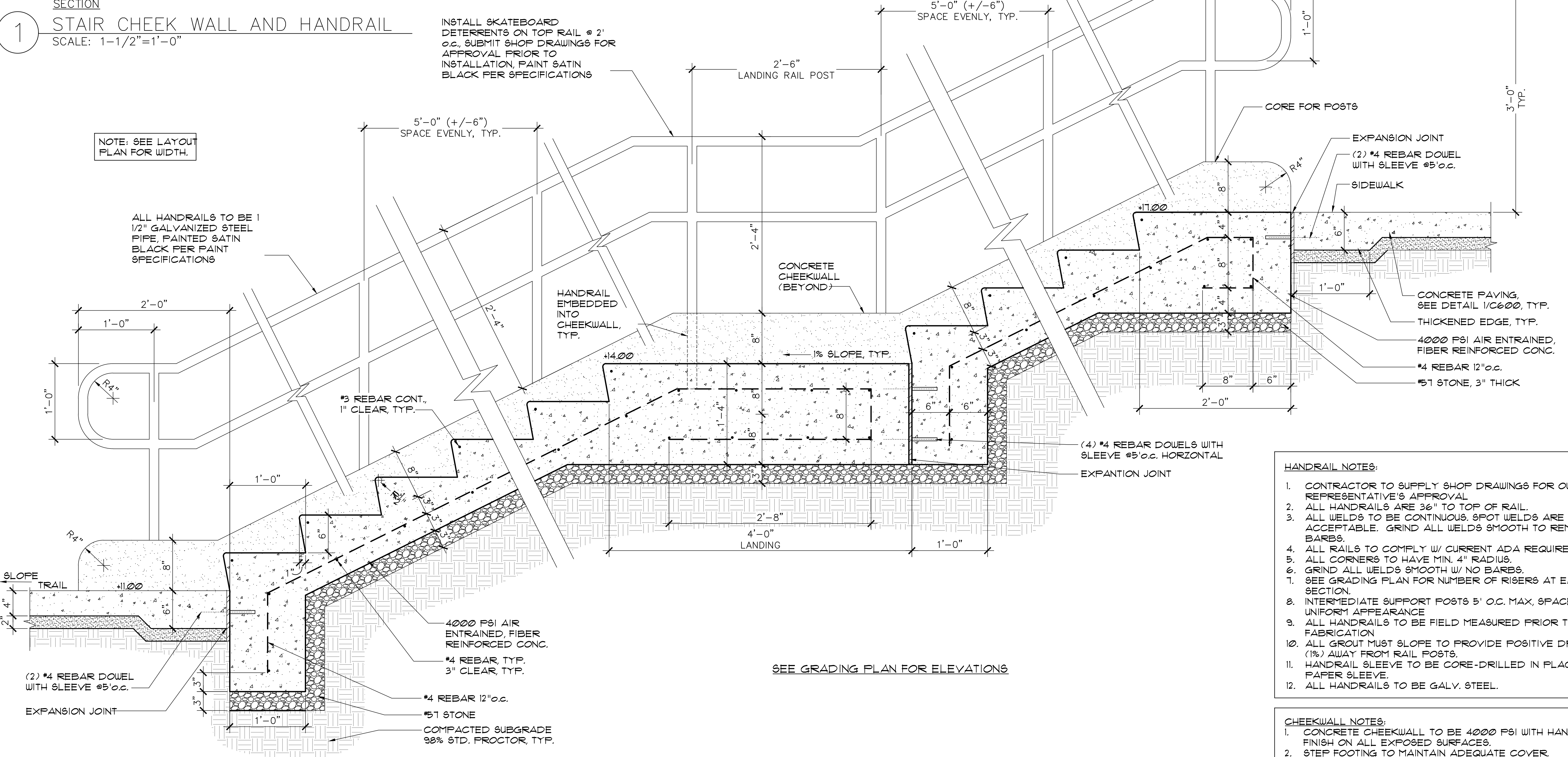


**SECTION 1**  
STAIR CHEEK WALL AND HANDRAIL  
SCALE: 1-1/2"=1'-0"

INSTALL SKATEBOARD DETERRENTS ON TOP RAIL @ 2' o.c., SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION, PAINT SATIN BLACK PER SPECIFICATIONS

NOTE: SEE LAYOUT PLAN FOR WIDTH.

ALL HANDRAILS TO BE 1 1/2" GALVANIZED STEEL PIPE, PAINTED SATIN BLACK PER PAINT SPECIFICATIONS

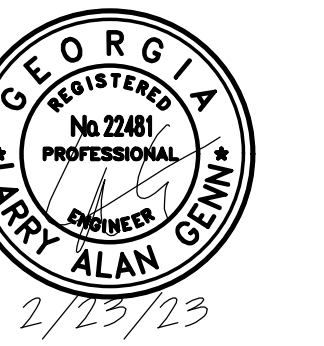


**SECTION 2**  
CONCRETE STEPS  
SCALE: 1-1/2"=1'-0"

SEE GRADING PLAN FOR ELEVATIONS

- HANDRAIL NOTES:**
1. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE'S APPROVAL.
  2. ALL HANDRAILS ARE 3/8" TO TOP OF RAIL.
  3. ALL WELDS TO BE CONTINUOUS. SPOT WELDS ARE NOT ACCEPTABLE. GRIND ALL WELDS SMOOTH TO REMOVE BARBS.
  4. ALL RAILS TO COMPLY W/ CURRENT ADA REQUIREMENTS.
  5. ALL CORNERS TO HAVE MIN. 4" RADIUS.
  6. GRIND ALL WELDS SMOOTH W/ NO BARBS.
  7. SEE GRADING PLAN FOR NUMBER OF RISERS AT EACH STAIR SECTION.
  8. INTERMEDIATE SUPPORT POSTS 5' O.C. MAX, SPACE FOR UNIFORM APPEARANCE.
  9. ALL HANDRAILS TO BE FIELD MEASURED PRIOR TO FABRICATION.
  10. ALL GROUT MUST SLOPE TO PROVIDE POSITIVE DRAINAGE (1%) AWAY FROM RAIL POSTS.
  11. HANDRAIL SLEEVE TO BE CORE-DRILLED IN PLACE OF PAPER SLEEVE.
  12. ALL HANDRAILS TO BE GALV. STEEL.

- CHEEKWALL NOTES:**
1. CONCRETE CHEEKWALL TO BE 4000 PSI WITH HAND-RUBBED FINISH ON ALL EXPOSED SURFACES.
  2. STEP FOOTING TO MAINTAIN ADEQUATE COVER.
  3. GRADE TO BE VERIFIED IN THE FIELD.

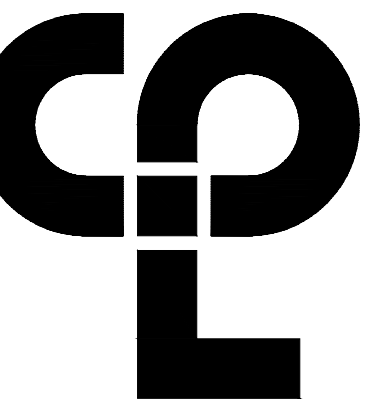


IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON UNLAWFULLY ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ASSIST IN ANY MANNER, BY ANY OTHER PERSON, THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN ANY STATE, THE SIGNING PARTY SHALL BE RESPONSIBLE FOR THE SIGNATURE AND THE DATE OF SUCH SIGNATURE AND A PROPER DESCRIPTION OF THE ACTIVITIES.

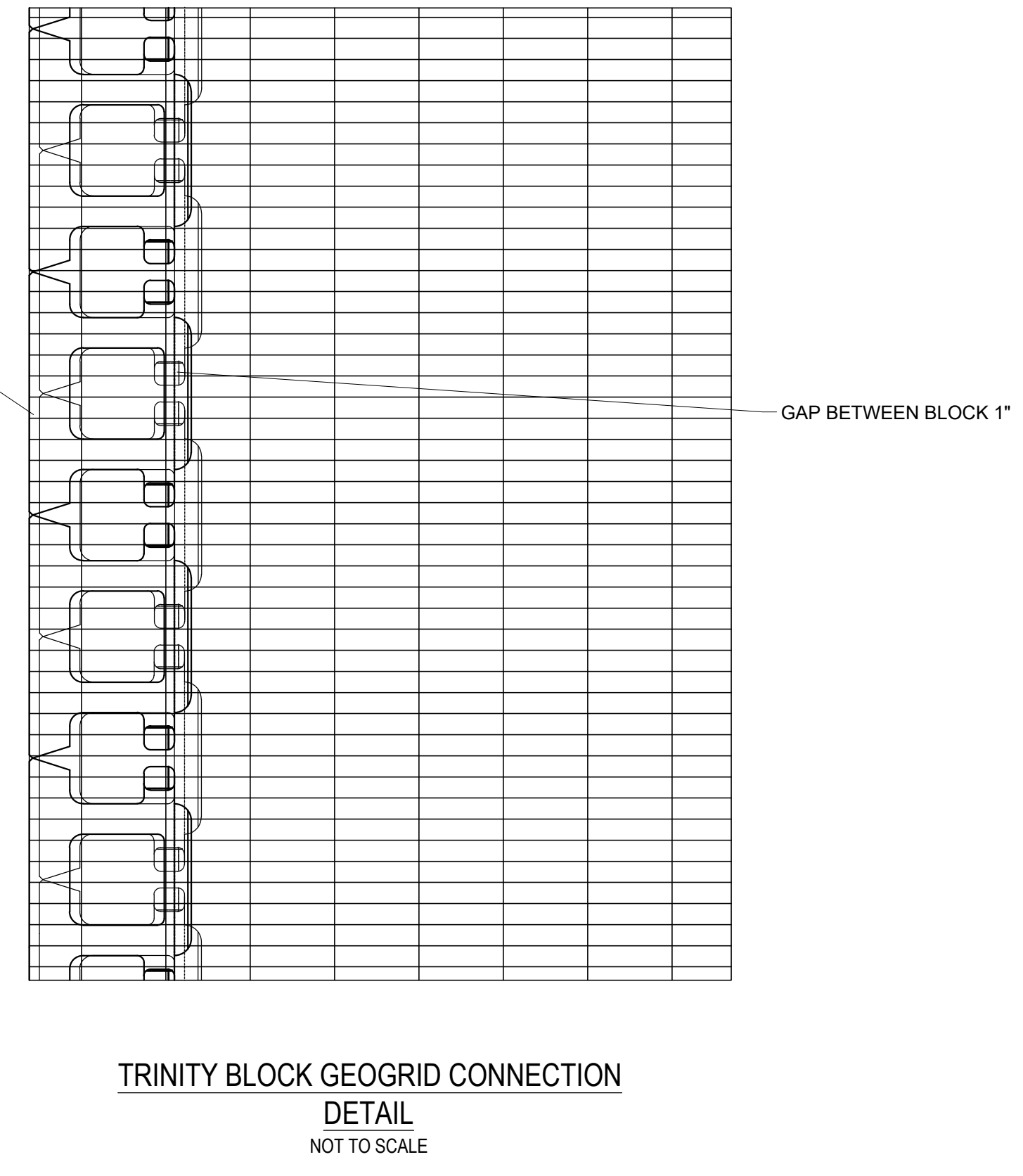
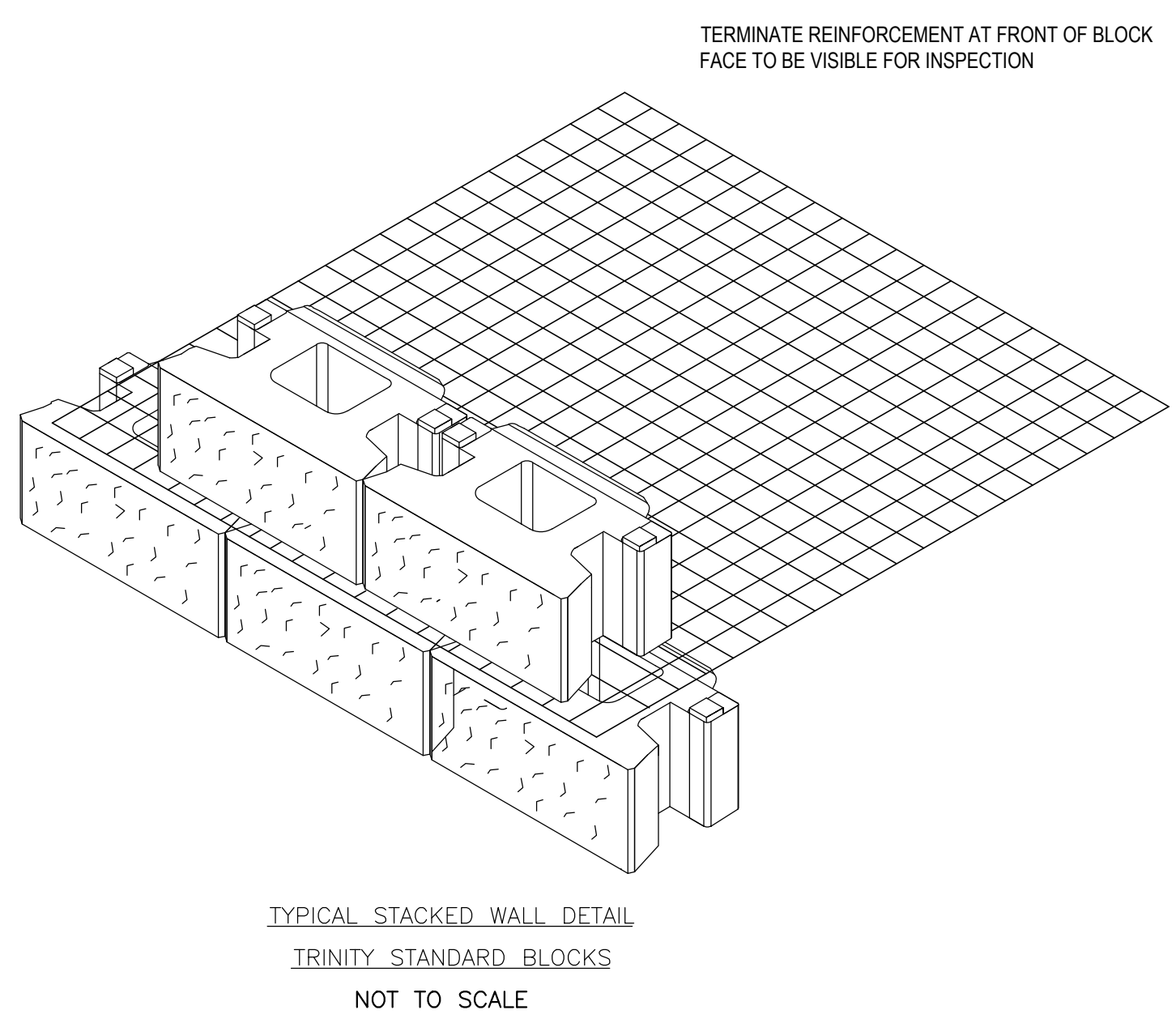
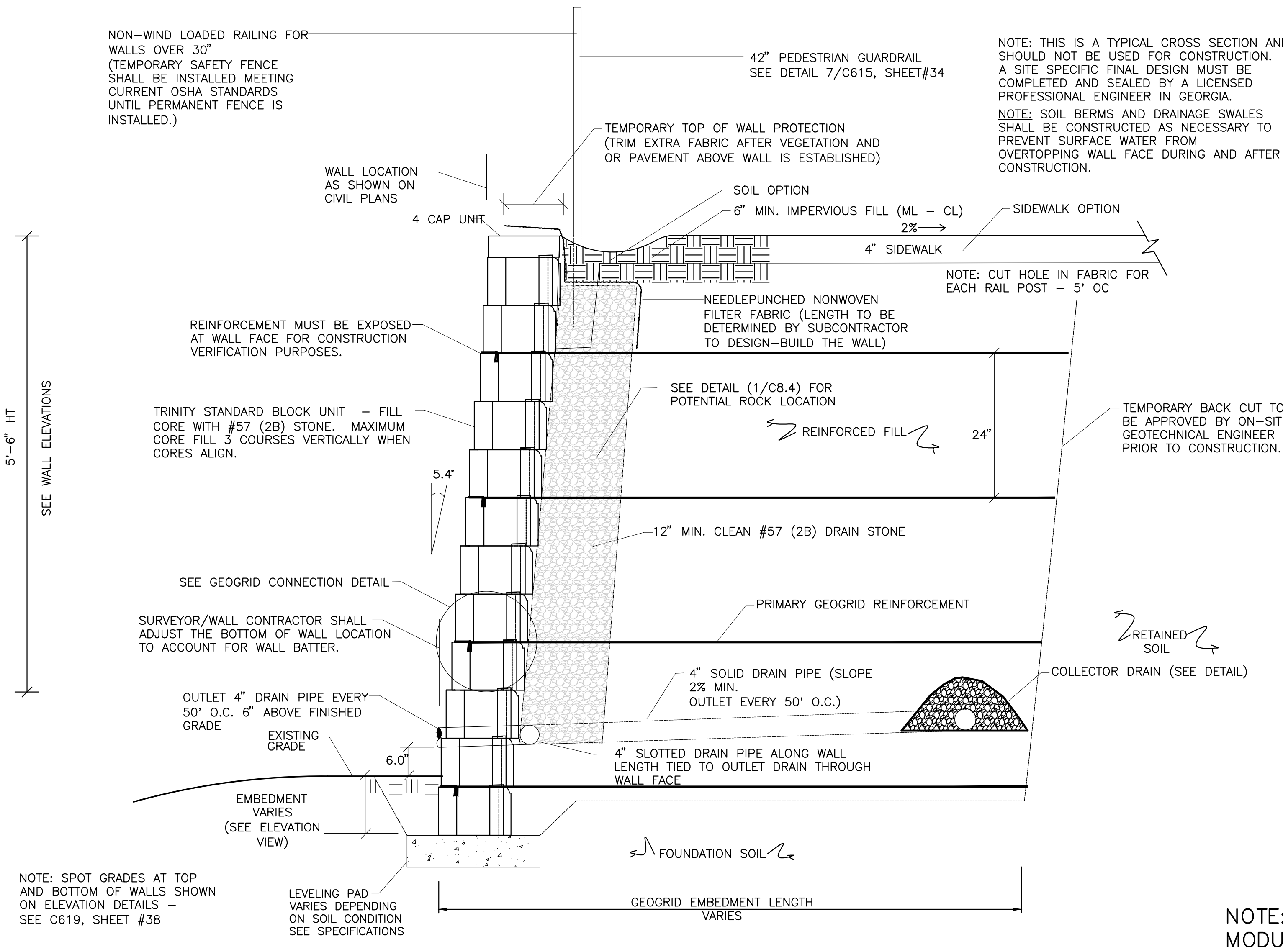
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 Plotted By: Catherine Newberry



PROJECT INFORMATION	
Project Number	15991.00
Client Name	CITY OF BROOKHAVEN
Project Name	BRIARWOOD PARK
Project Address	2235 BRIARWOOD WAY NE BROOKHAVEN, GA 30319
REVISION SCHEDULE	
Rev. No.	Description
1	01-14-2023 LDP CIP COMMENT #1
2	01-19-2023 BUILDING PERMIT
3	02-09-2023 LDP CIP COMMENT #2
4	03-27-2023 LDP CIP COMMENT #3



NOTE: DETAILS FOR REFERENCE ONLY  
SEE CONSTRUCTION SHOP DRAWINGS

**NOTE:**  
MODULAR RETAINING WALL DESIGN MUST BE SUBMITTED TO DEKALB COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION PLAN APPROVAL. WALL DESIGN MUST INCLUDE DETAILS AND SPECIFICATIONS THAT ARE SITE SPECIFIC AND MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA.

**NOTE:** SEGMENTAL RETAINING WALL SHOWN FOR REFERENCE PURPOSES ONLY.

**SHOP DRAWINGS** OF ALL COMPONENTS, SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF GEORGIA ARE TO BE SUBMITTED FOR REVIEW PRIOR TO FINAL AUTHORIZATION OF REQUIRED BUILDING PERMIT. THIS IS TO BE DONE PRIOR TO ORDERING, FABRICATION, CONSTRUCTION, ETC.

**NOTE:** IN SOME LOCATIONS, RAILING IS TO BE INSTALLED AT TOP OF WALLS. THE CONTRACTOR IS TO CONSIDER THE NECESSARY COMPONENTS TO ALLOW THIS TO OCCUR IN HIS BID AND IN THE DESIGN OF THE RAIL/WALL SYSTEM AND IS TO SUBMIT DETAILS FOR REVIEW PRIOR TO CONSTRUCTION.

MODULAR WALL SYSTEM TO BE STANDARD STRAIGHT FACE BLOCK BY TRINITY OR APPROVED EQUAL. CONTACT JIM KELLEY AT 770-963-4819.

CONTRACTOR SHALL BID TRINITY BLOCK FOR INITIAL BID. SUBSTITUTION ALTERNATE MAY BE OFFERED AS A DEDUCTIVE ALTERNATE TO CONSIDER AFTER THE BID.

**COLOR:**  
NOTE: BLOCKS TO BE INTEGRALLY COLORED WITH MANUFACTURER'S COLORING SYSTEM. COLOR RANGE TO BE LIGHT GRAY TO TAN. PROVIDE COLOR SAMPLES FOR OWNER'S SELECTION PRIOR TO ORDERING.

**NOTE:** PROVIDE FINISHED BLOCK AT ENDS OF WALLS. RAW EDGE BLOCKS WILL NOT BE ACCEPTED.

**DESIGN-BUILD WALL - SHOP DRAWINGS:**

**CONSTRUCTION NOTE/PERMIT:**  
WALL DETAILS SHOWN ON THIS PLAN ARE "TYPICAL" AND FOR REFERENCE ONLY. DESIGN SHALL BE PROVIDED FOR SITE-SPECIFIC WALL WITH ASSOCIATED CALCULATIONS AND DETAILS STAMPED BY ENGINEER LICENSED IN THE STATE OF GEORGIA.

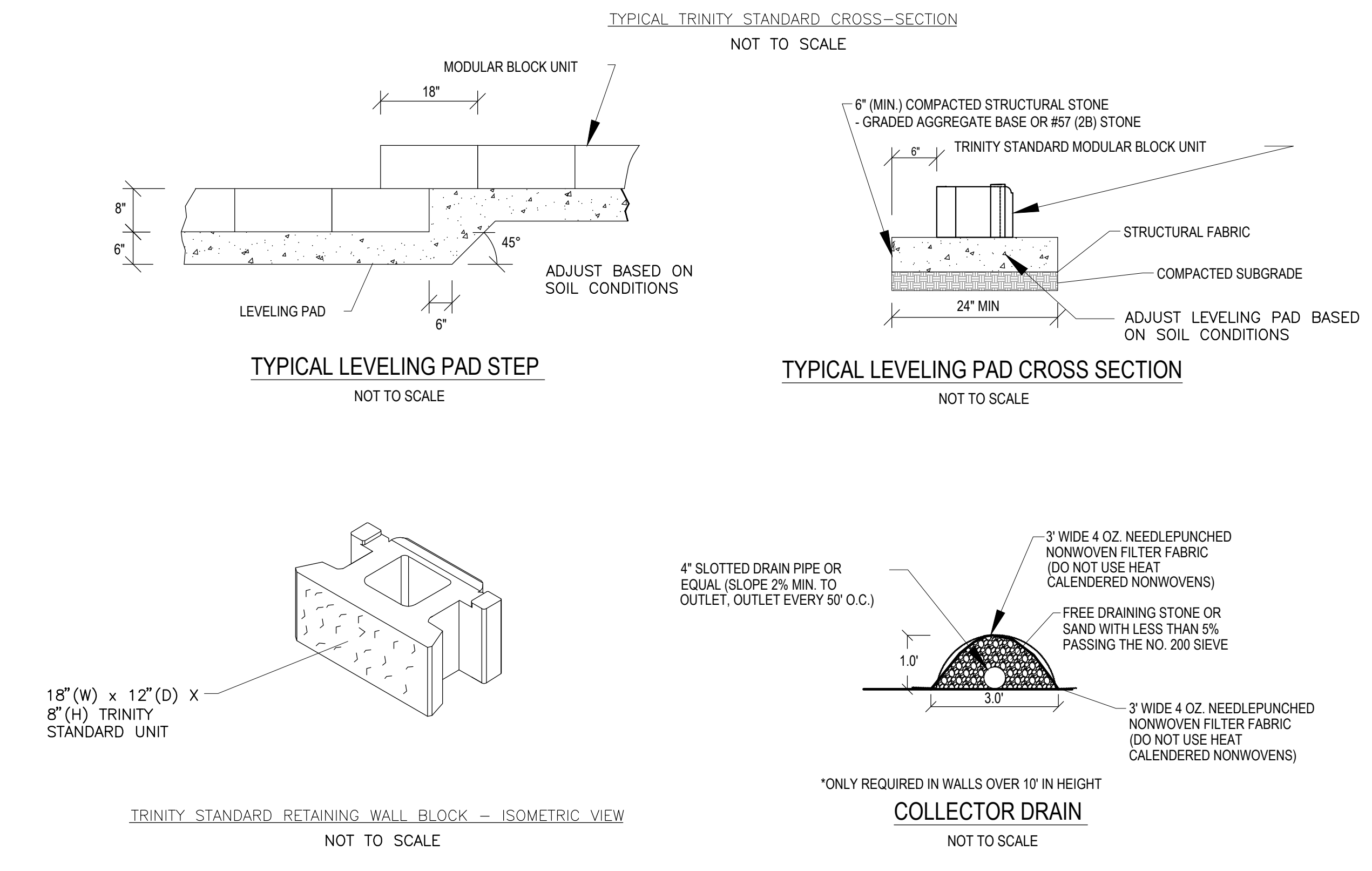
PLANS MUST BE SUBMITTED TO BROOKHAVEN AND APPROVED AS A REVISION TO THIS LAND DISTURBANCE PERMIT PRIOR TO INSTALLATION.

**DESIGN-BUILD NOTE**

CONTRACTOR SHALL SECURE GEOTECHNICAL SOIL BORINGS UNDER EACH WALL TO DETERMINE LOAD BEARING CAPACITY OF EACH WALL.

CONTRACTOR SHALL PROVIDE SHOP DRAWING DESIGN FOR PROPOSED SITE WALL AND SUBMIT TO OWNERS REPRESENTATIVE FOR APPROVAL BEFORE CONTRACTOR.

SOME SOIL DATA IS FOUND IN THE APPENDIX OF THE PROJECT MANUAL.



1 MODULAR BLOCK RETAINING WALL - TYPICAL SPECS

**NOTES:**

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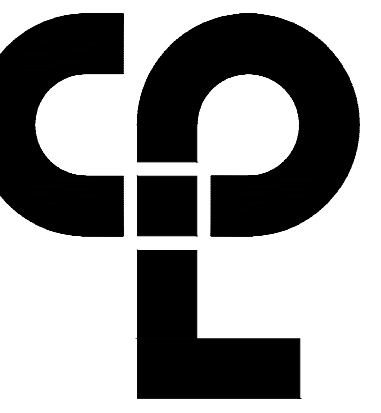
ALL WALLS OVER 4' HT. MUST HAVE A BUILDING PERMIT FROM THE CITY OF BROOKHAVEN.



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SHEET INFORMATION	
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Scale	
Drawn By	MES
Checked By	LAC
Design Title	SITE DETAILS 9
	WALL SPECS

Sheet Size: 30x42  
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Date last accessed: 3/27/2023 3:23 PM  
Date last plotted: 3/27/2023 4:34 PM  
Plotted By: Catherine Newberry



**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN

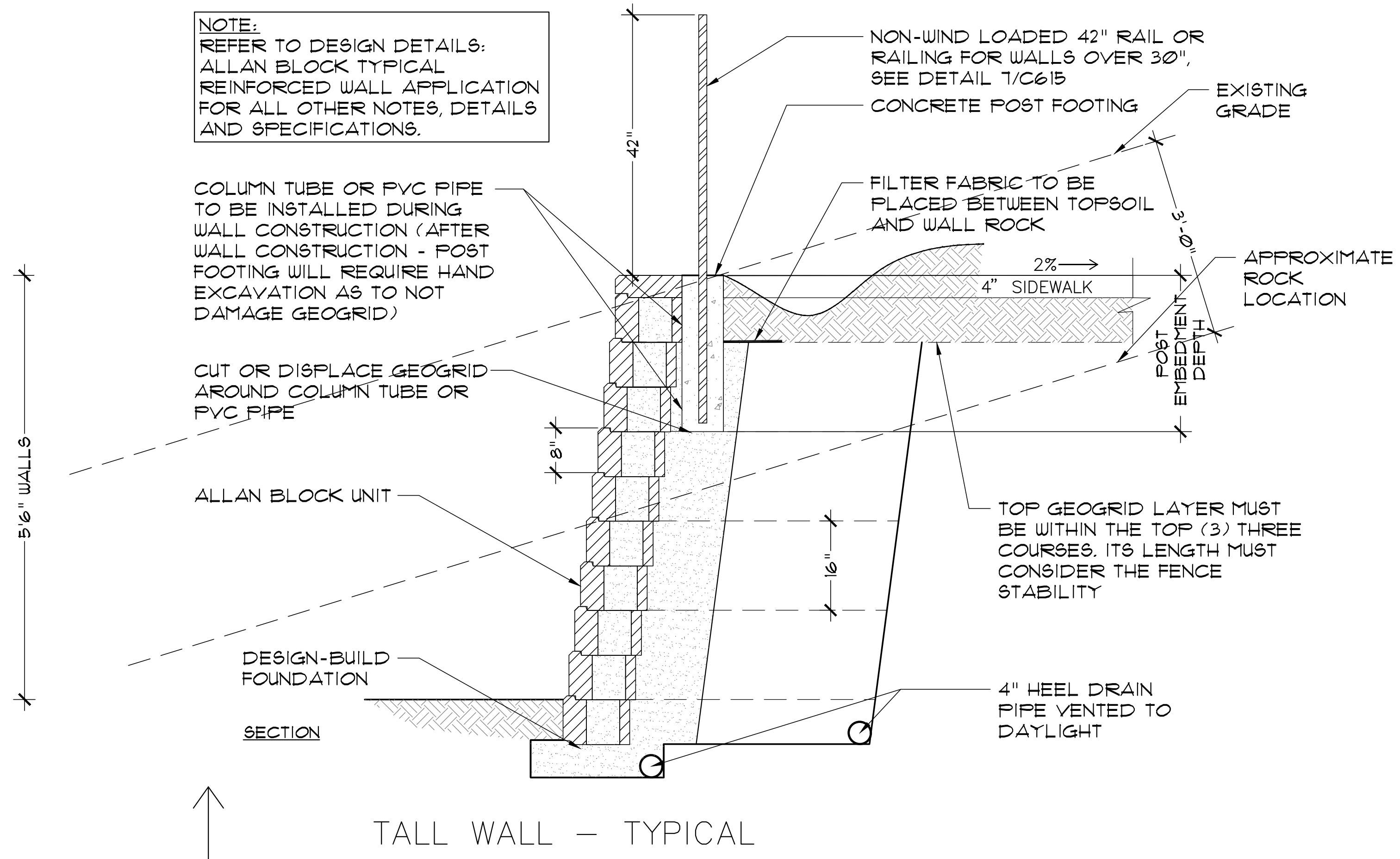
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

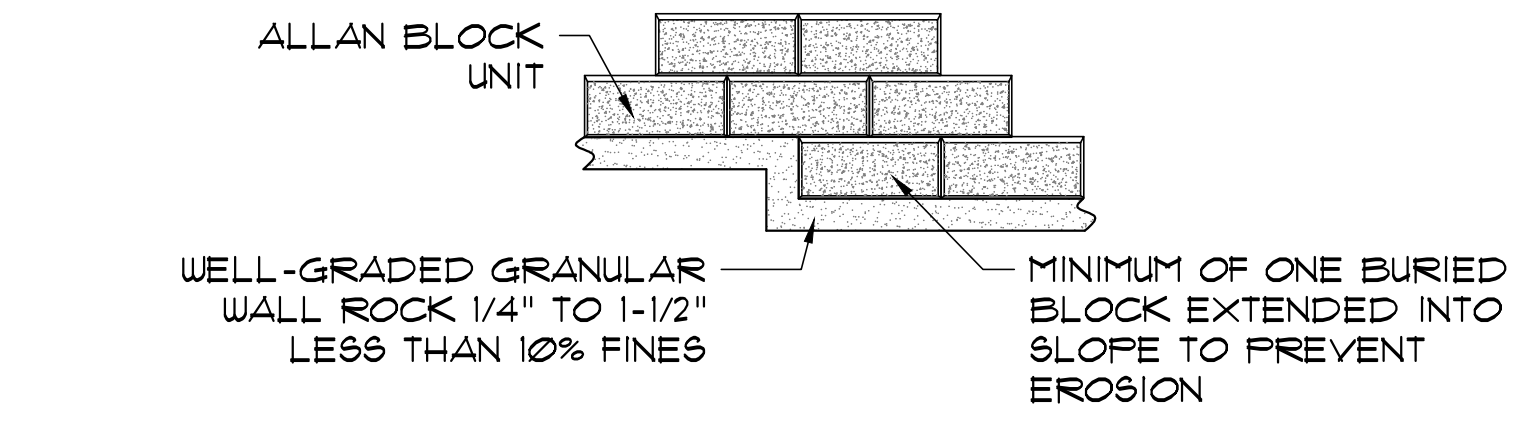
**REVISION SCHEDULE**

Rev. No.	Date	Description
1	01-24-2023	LDP CITY COMMENT #1
2	02-01-2023	BUILDING PERMIT
3	02-09-2023	LDP CITY COMMENT #2
4	03-27-2023	LDP CITY COMMENT #3

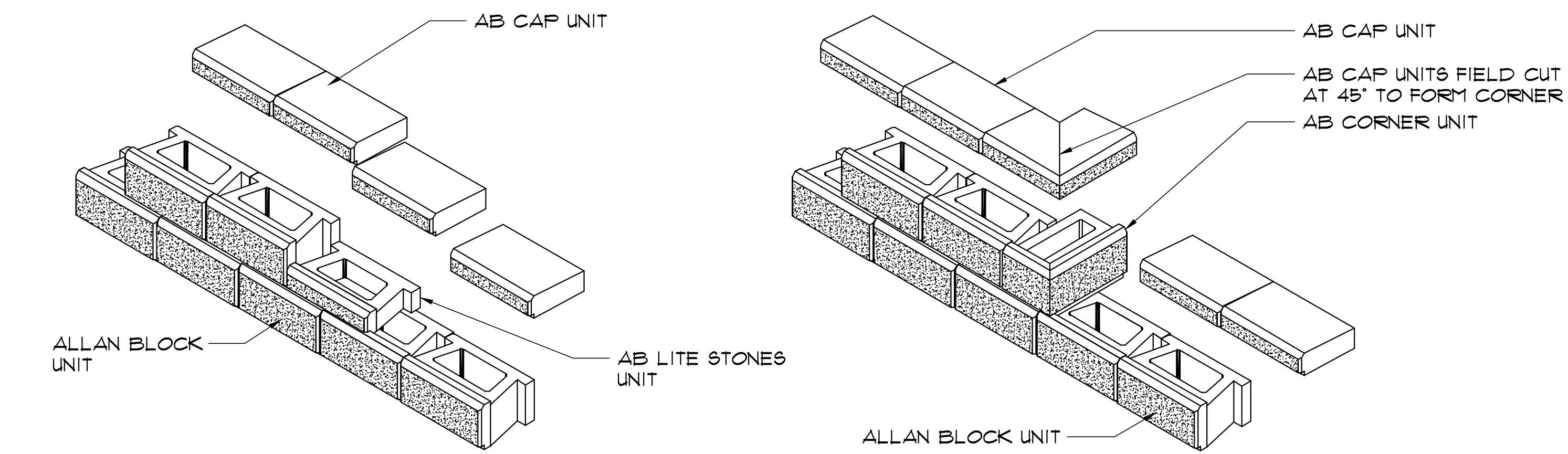
**NOTE:**  
REFER TO DESIGN DETAILS:  
ALLAN BLOCK TYPICAL  
REINFORCED WALL APPLICATION  
FOR ALL OTHER NOTES, DETAILS  
AND SPECIFICATIONS.



1 SITE MODULAR WALL - PROPOSED SECTION, TYPICAL  
NTS

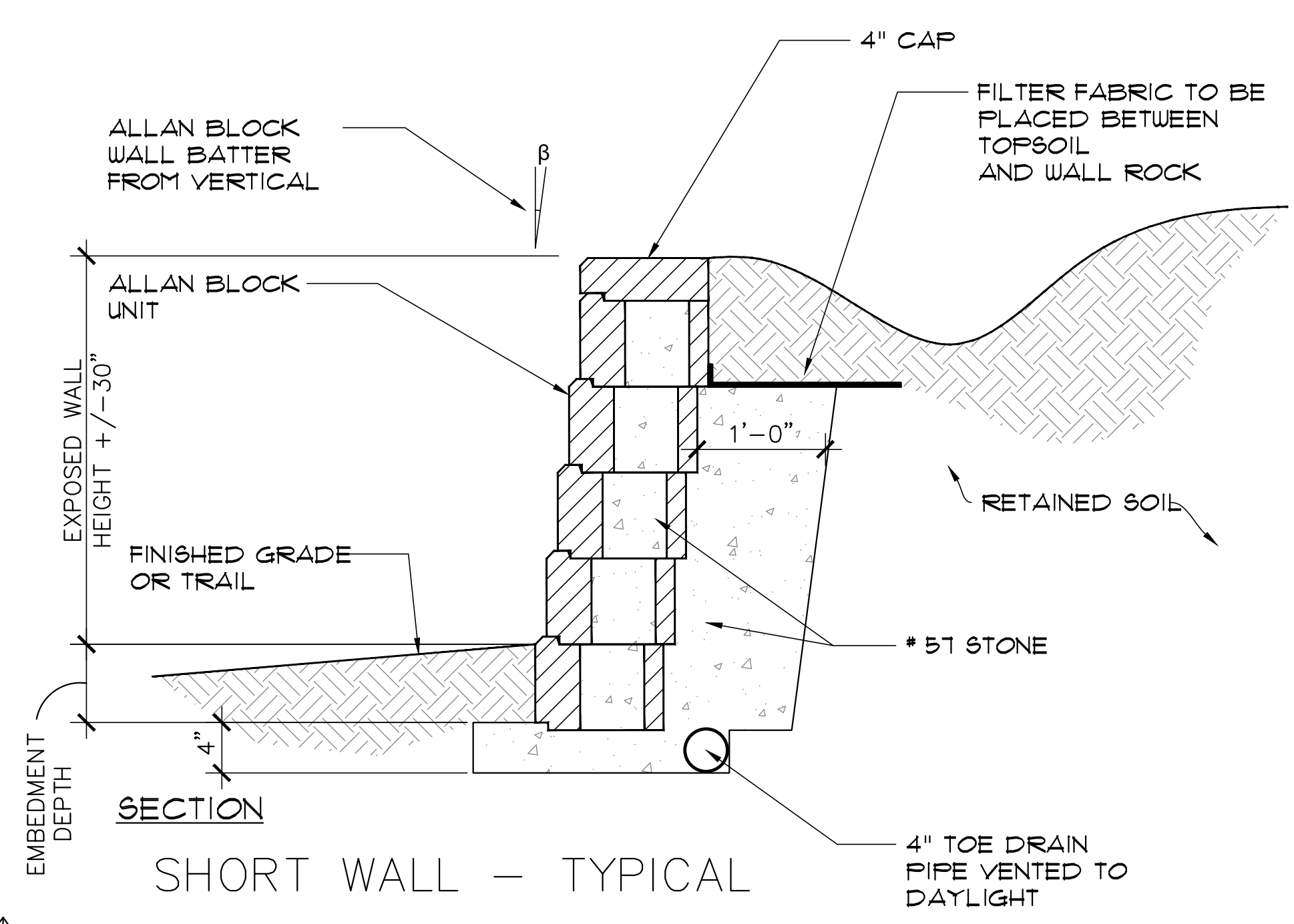


2 STEP UP AT BASE  
NTS

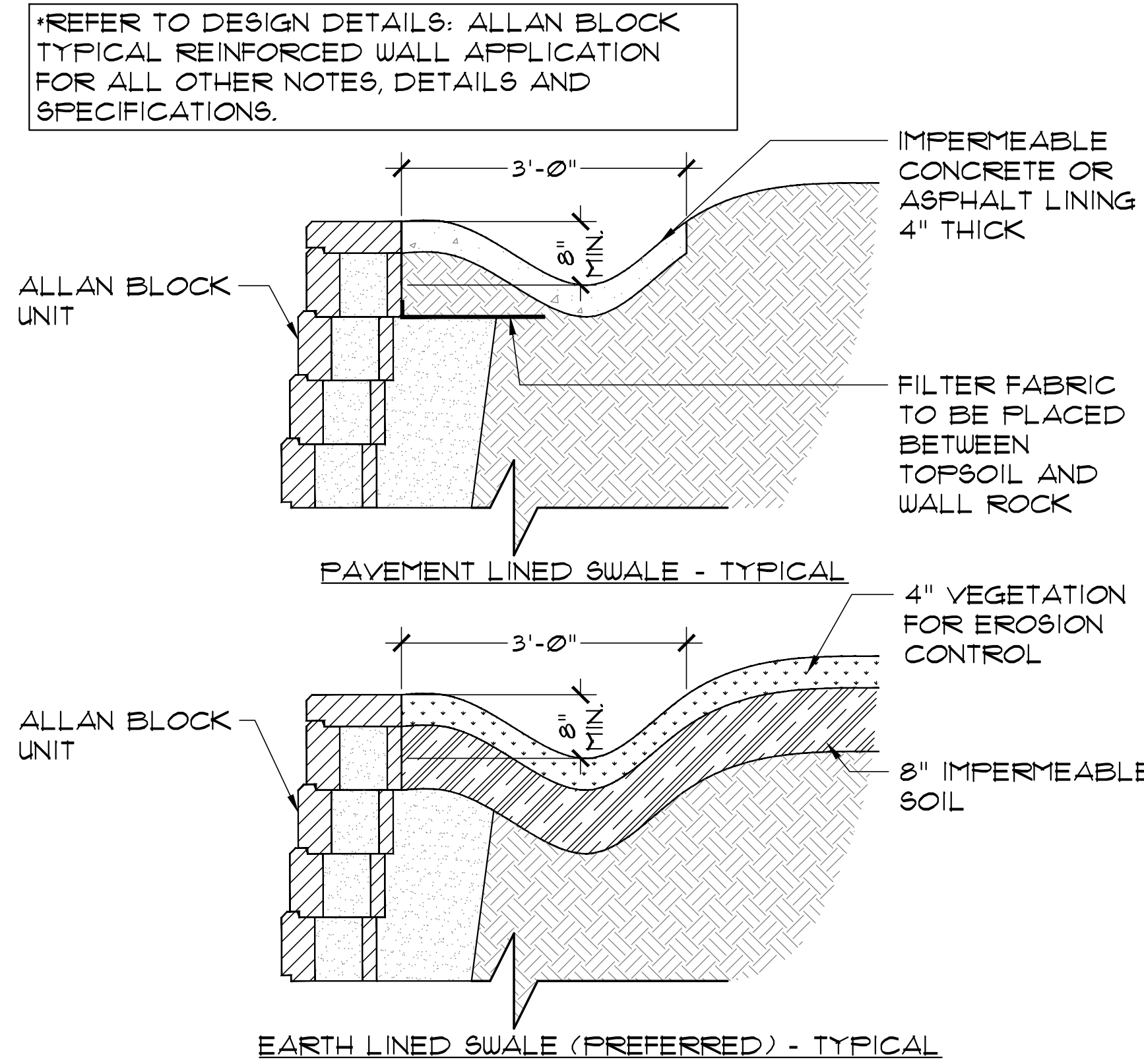


3 AB STEP UP FINISHING DETAILS - TYPICAL  
NTS

NOTE: DETAILS FOR REFERENCE ONLY  
SEE CONSTRUCTION SHOP DRAWINGS



4 MODULAR SEAT WALL SECTION, TYPICAL  
NTS



5 PAVEMENT AND EARTH LINED SWALES - TYPICAL  
NTS

**NOTES:**

- INTERNATIONAL BUILDING CODE (IBC); ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
- ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
- FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12\"

ALL WALLS OVER 4' HT. MUST HAVE A BUILDING PERMIT FROM THE CITY OF BROOKHAVEN.

**DESIGN-BUILD WALL - SHOP DRAWINGS:**

**CONSTRUCTION NOTE:**

WALL DETAILS SHOWN ON THIS PLAN ARE "TYPICAL" AND FOR REFERENCE ONLY. DESIGN SHALL BE PROVIDED FOR SITE-SPECIFIC WALL WITH ASSOCIATED CALCULATIONS AND DETAILS STAMPED BY ENGINEER LICENSED IN THE STATE OF GEORGIA.

PLANS MUST BE SUBMITTED TO BROOKHAVEN AND APPROVED AS A REVISION TO THIS LAND DISTURBANCE PERMIT PRIOR TO INSTALLATION.

PERMITS NOT REQUIRED FOR WALL DRAWINGS UNDER 4' HT

**DESIGN-BUILD NOTE**

CONTRACTOR SHALL SECURE GEOTECHNICAL SOIL BORINGS UNDER THE WALL TO DETERMINE LOAD BEARING CAPACITY OF THE WALL.

CONTRACTOR SHALL PROVIDE SHOP DRAWING DESIGN FOR PROPOSED SITE WALL AND SUBMIT TO OWNERS REPRESENTATIVE FOR APPROVAL BEFORE CONTRACTOR.

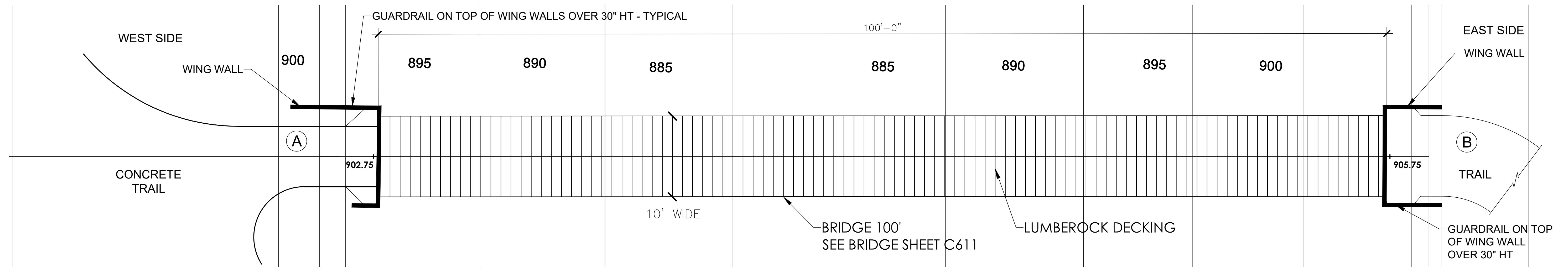
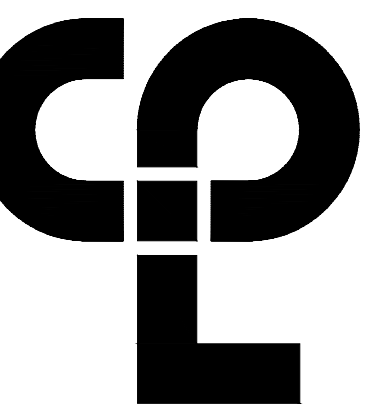
ELEVATIONS OF EACH WALL - SEE C619, SHEET # 38



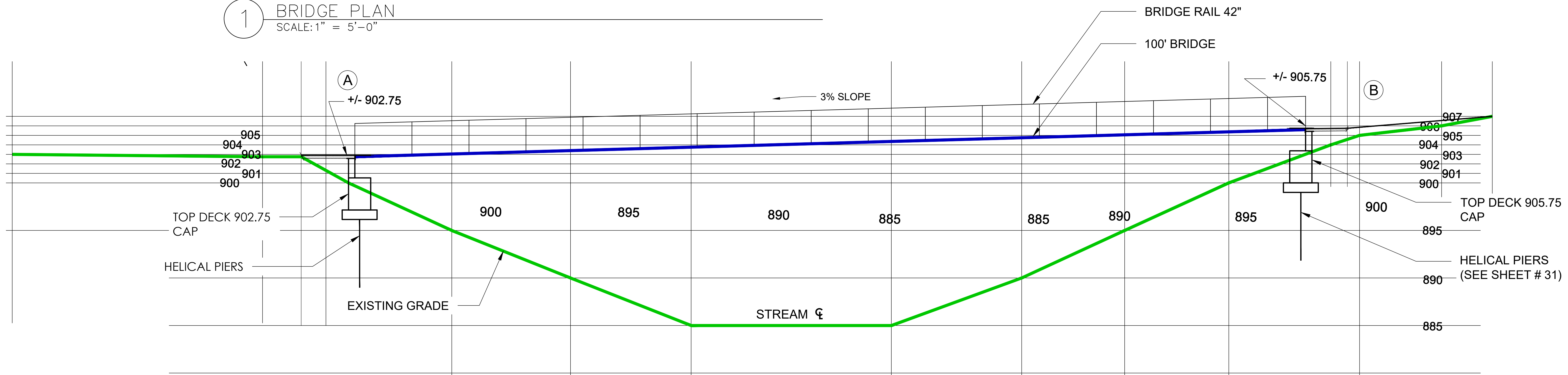
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS REGULATIONS FOR ANY PERSON UNLAWFULLY ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ALTER ANY SEAL IN ANY MANNER WITHOUT THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN A STATE. THE ALTERING PARTY SHALL BE RESPONSIBLE FOR THE SEALS AND THE SIGNATURES BY FOLLOWING THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS OF THE STATE OF NEW YORK AND A PUNY PROSECUTION OF THE ALTERNATIVE.

**SHEET INFORMATION**

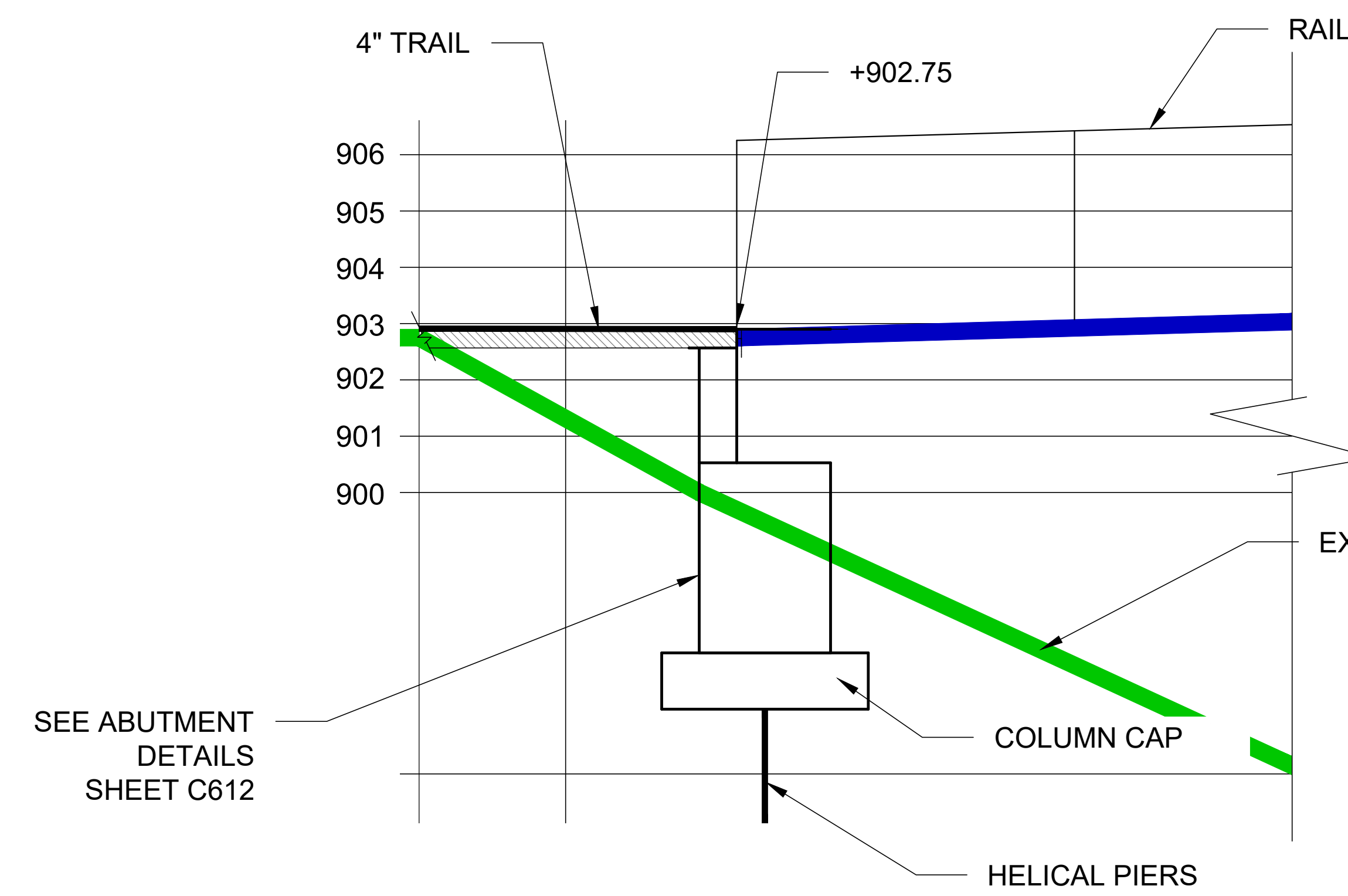
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Scale:  
Drawn By: MSJ  
Checked By: LAG  
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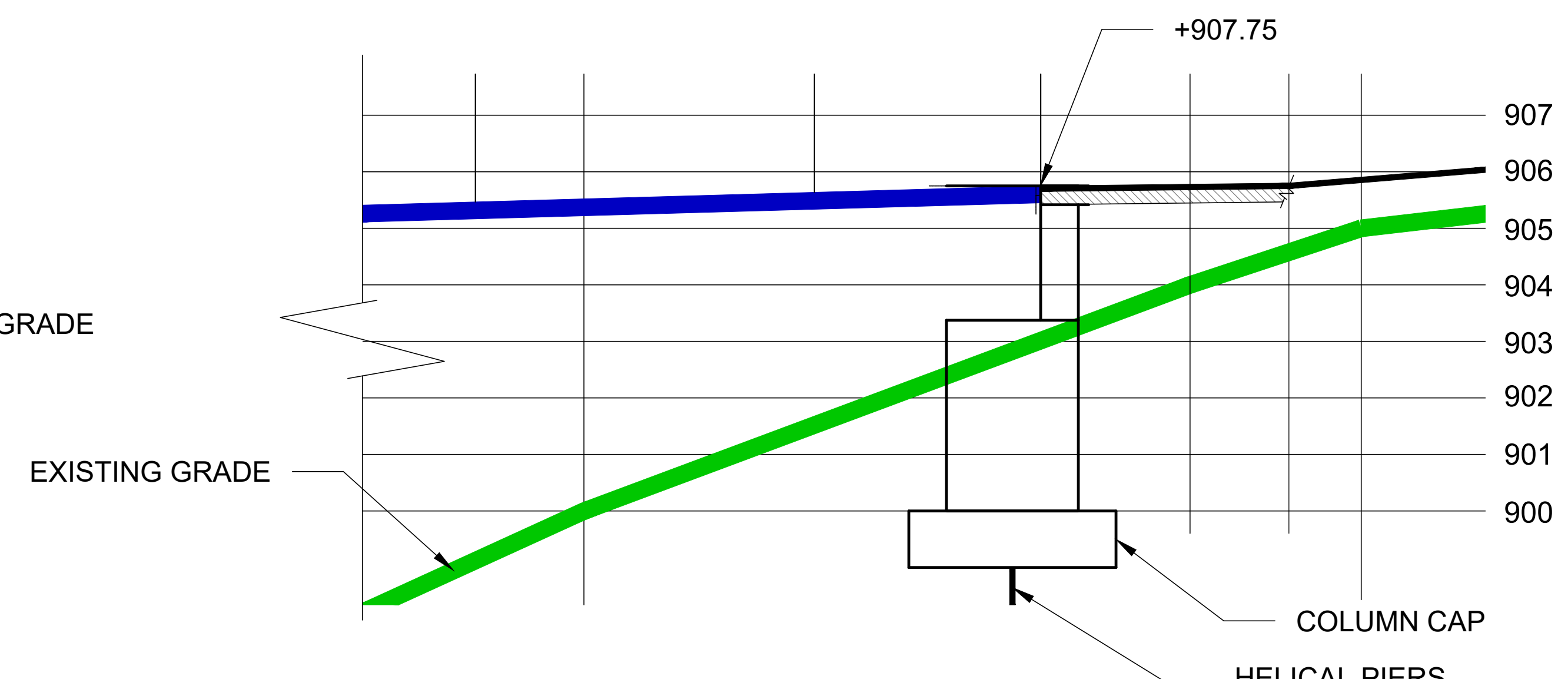
1 BRIDGE PLAN  
SCALE: 1" = 5'-0"



2 BRIDGE SECTION  
SCALE: 1" = 5'-0"



3 BRIDGE ABUTMENT - A  
SCALE: 1/2" = 1'-0"

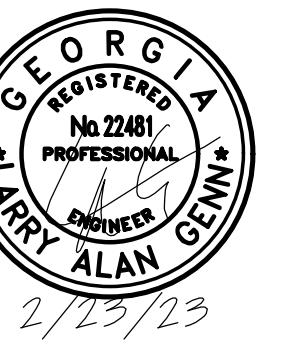


4 BRIDGE ABUTMENT - B  
SCALE: 1/2" = 1'-0"

- NOTES:**
- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
  - ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
  - FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.

- NOTES:**
- THE BRIDGE IS DESIGNED AT 3% RUNNING SLOPE AND 2% CROSS SLOPE. IT COMPLIES WITH 2010 ADA FOR ACCESSIBLE DESIGN SECTION 405 AND 2018 LIFE SAFE CODE SECTION 1.2.5.
  - BRIDGE MANUFACTURER TO PREPARE SHOP DRAWINGS TO FIT ABUTMENT LOCATIONS.

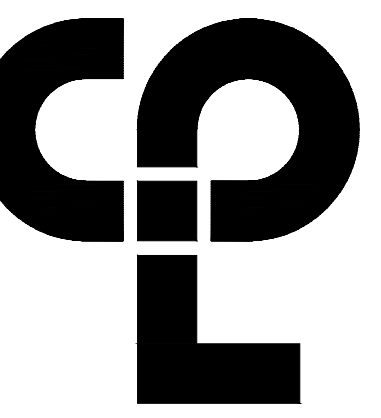
SEE ABUTMENT DETAILS SHEET C612



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMPARABLE REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ASSIST IN ANY MANNER, IN ANY MANNER, THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN ANY STATE, THE ARCHITECTURE BOARD, THE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS, AND THE BOARD OF PROFESSIONAL LAND SURVEYORS AND THE DATE OF SUCH VIOLATION AND A PRECISE DESCRIPTION OF THE VIOLATION.

**SHEET INFORMATION**

Issue:	12.01.2022	Scale:	VARIES
Drawn By:	MES	Created By:	LAG
Designing File:	SITE DETAILS 11 BRIDGE		



### Max Span Reactions - Estimate

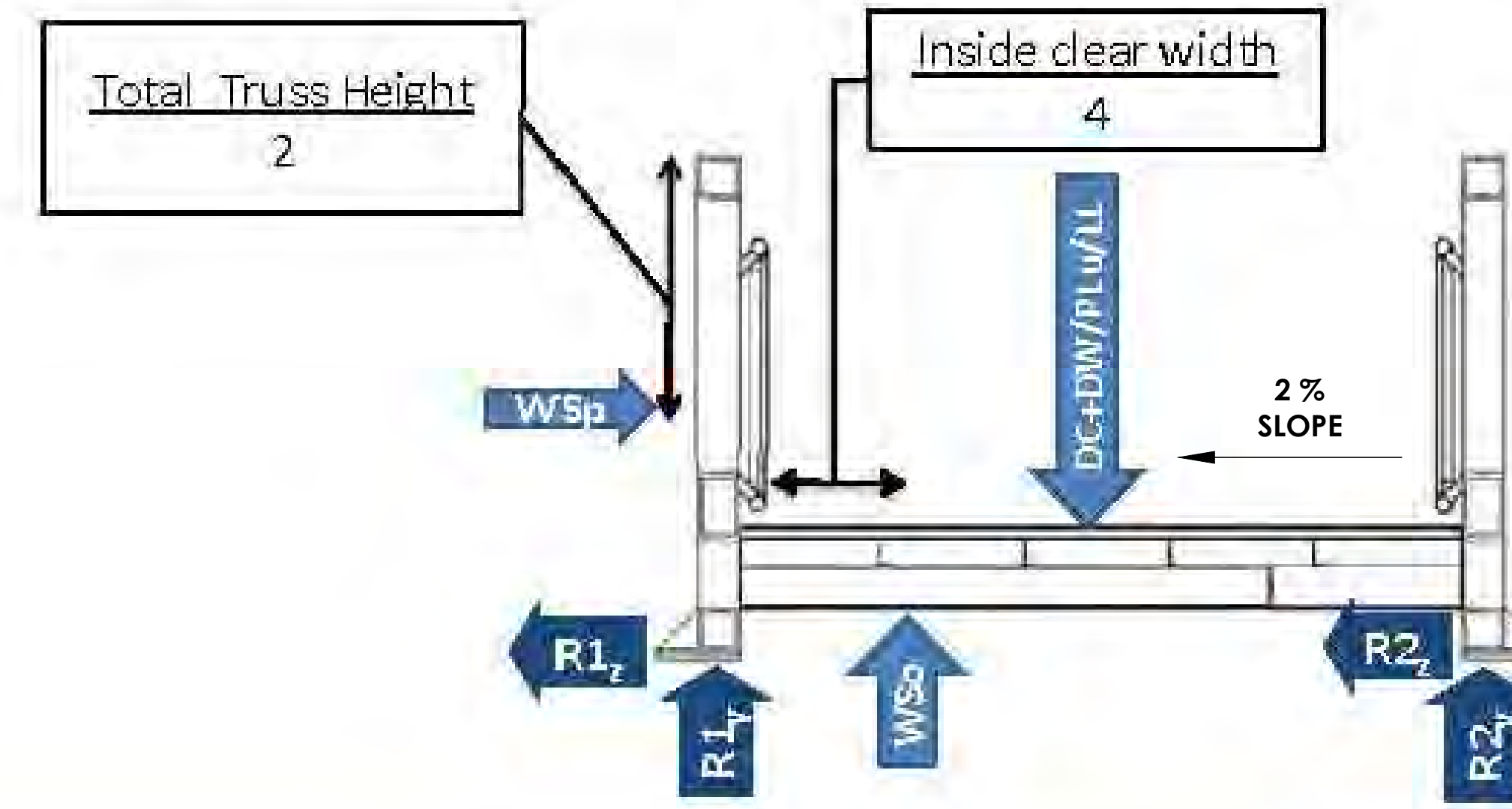
Anchor Locations	4	Qty
Estimated Average Total Truss Height	6.9	ft
Inside Clear Width	9.0	ft
Total Length	100.0	ft
Coefficient of Expansion	0.000013	1/F
Design Temperature Range	120	F
Design Live Load	90	psf
Design Wind Pressure (70% opacity assumed)	32	psf
Design Overturning Wind Pressure	20	psf
Est. Min. Expansion Range	1.87	in

Est. Dead Load (DC+DW)	23,519	lbF
Est. Max Vehicle Load (LV)	0	lbF
Est. Live Load (PLU)	81,000	lbF
Est. Wind Load (WSp)	22,215	lbF
Est. Overturning Wind (WSo)	22,000	lbF

- Unfactored - Dead Load (DC+DW)
- Unfactored - Ped. Live Load (PLU)
- Unfactored - Vehicle Live Load (LV)\*
- Unfactored - Horizontal Wind (WSp)
- Unfactored - Overturning Wind (WSo)
- Strength I - Ped.  $(DC+DW)(1.2) + (PLU)(1.7)$
- Strength I - Vehicle  $(DC+DW)(1.2) + (LV)(1.7)$
- Strength III -  $(DC+DW)(1.2) + (WSp)(1.4) + (WSo)(1.4)$
- Expansion/Contraction

	R1 <sub>z</sub>	R1 <sub>y</sub>	R1 <sub>x</sub>	R2 <sub>z</sub>	R2 <sub>y</sub>	R2 <sub>x</sub>
Unfactored - Dead Load (DC+DW)	—	5,880	—	—	5,880	—
Unfactored - Ped. Live Load (PLU)	—	20,250	—	—	20,250	—
Unfactored - Vehicle Live Load (LV)*	—	0	—	—	0	—
Unfactored - Horizontal Wind (WSp)	5,554	-4,242	—	5,554	4,242	—
Unfactored - Overturning Wind (WSo)	—	-8,250	—	—	-2,750	—
Strength I - Ped. $(DC+DW)(1.2) + (PLU)(1.7)$	—	42,787	—	—	42,787	—
Strength I - Vehicle $(DC+DW)(1.2) + (LV)(1.7)$	—	7,350	—	—	7,350	—
Strength III - $(DC+DW)(1.2) + (WSp)(1.4) + (WSo)(1.4)$	7,775	-10,140	—	7,775	9,439	—
Expansion/Contraction	—	—	0	—	—	0

Assumes symmetrical ly distributed loading. Values given are for one bridge side.  
\*Assumes vehicle load acting on 2 anchor locations



## CASCADE PEDESTRIAN BRIDGE

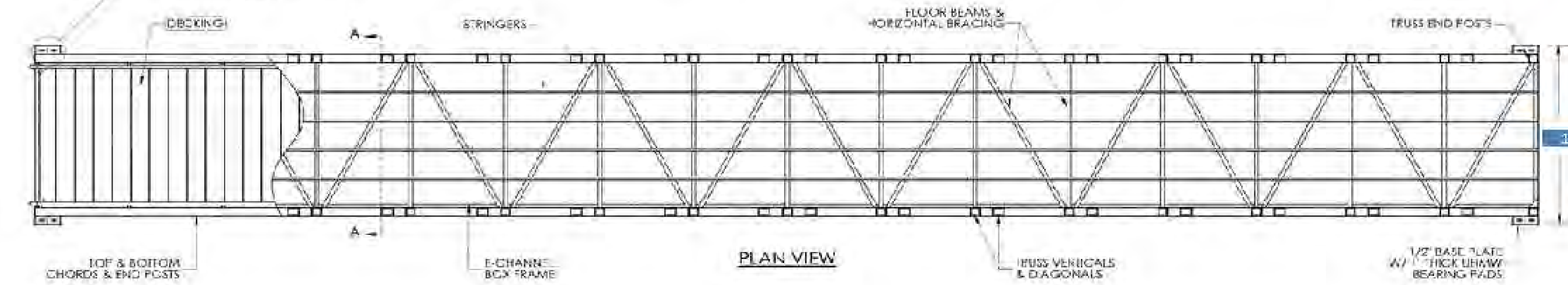
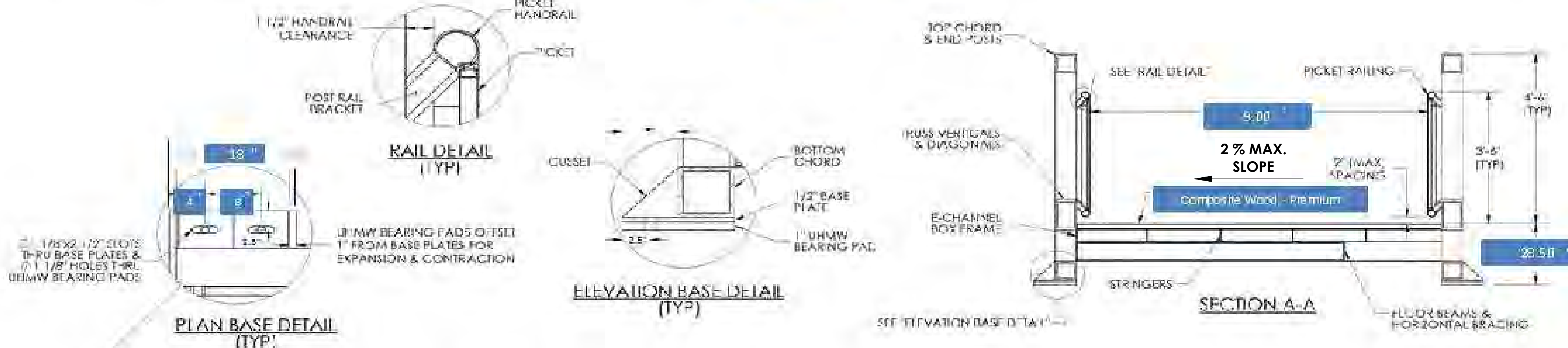
3% SLOPE  
SEE GRADING PLAN



- Options Not Shown:
- Guard Rail: 42" Combination
  - Color/Texture: Powder Coated (Full Bridge - Fawn Brown)
  - Grab Rail: NO
  - Toe Rail: NO
  - Top Chord Cladding: Tap Chord Clad (Composite Wood - Premium)
  - Rub Rail: NO
  - Accent Lighting: NO
  - Enclosures & Fencing: NO
  - Additional Camber: NO
  - Skew & Incline: NO
  - Mid-span Splice (qty): 1

- CONTRACTOR NOTES:
- CONTRACTOR SHALL CONTACT GATOR BRIDGE TO DEVELOP THE FINAL SHOP DRAWINGS FOR PROPOSED BRIDGE. DRAWINGS SHALL BE STAMPED BY PROFESSIONAL ENGINEER IN GEORGIA. SHOP DRAWINGS SUBMITTED FOR APPROVAL PRIOR TO ORDERING THE BRIDGE.
  - GATOR BRIDGE SHALL SUPPLY 1,000 SF OF LUMBEROCK DECKING AS PART OF THE BRIDGE MATERIALS. GENERAL CONTRACTOR SHALL INSTALL DECKING.
  - ABUTMENT PLANS - SEE SHEET # 31
  - BRIDGE SPECIFICATIONS - SEE SHEET # 32
  - THE BRIDGE IS DESIGNED AT 3% RUNNING SLOPE AND 2% CROSS SLOPE. IT COMPLIES WITH 2010 ADA FOR ACCESSIBLE DESIGN SECTION 405 AND 2018 LIFE SAFE CODE SECTION 7.2.5.

- NOTES:
- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
  - ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
  - FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.



ESTIMATED LOADS AND GEO METRY ARE PRELIMINARY, AND ARE NOT FOR CONSTRUCTION. FINAL LOADS AND GEOMETRY MAY VARY.  
ALL LOADS ARE ESTIMATED, BASED ON CUSTOMER SUPPLIED INFORMATION AND UNFACTORED.  
FOR FINAL GEOMETRY AND REACTIONS, PLEASE CONTACT YOUR CIVIL REPRESENTATIVE.

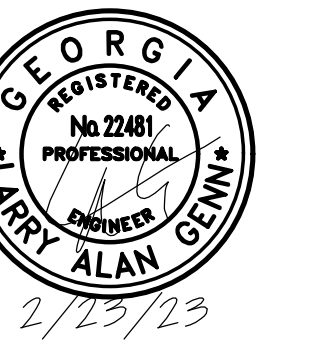
PROJECT INFORMATION  
Project Number: 1591.00  
Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

REVISION SCHEDULE

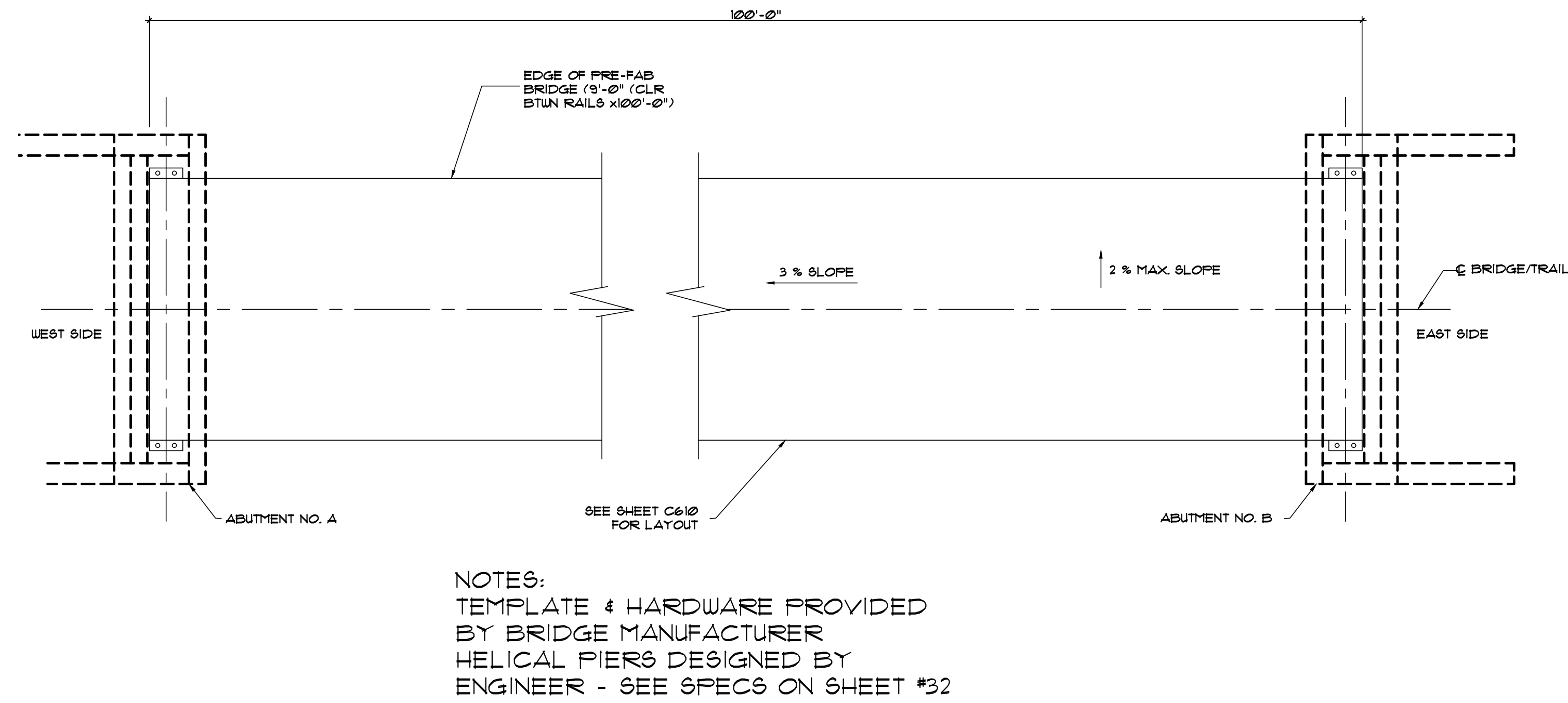
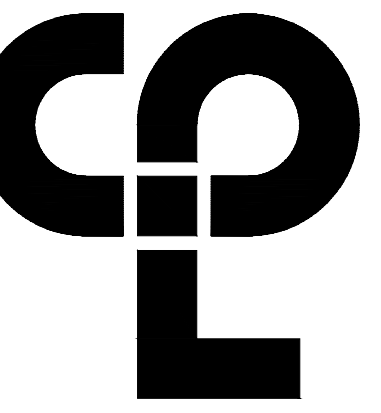
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2	01-31-2023	ISSUING PERMIT
3	02-02-2023	LDP CFI COMMENT #2
4	02-07-2023	LDP CFI COMMENT #3



SHEET INFORMATION  
Scale: VARIES  
Created By: LAD  
Drawing Title: SITE DETAILS 12 BRIDGE

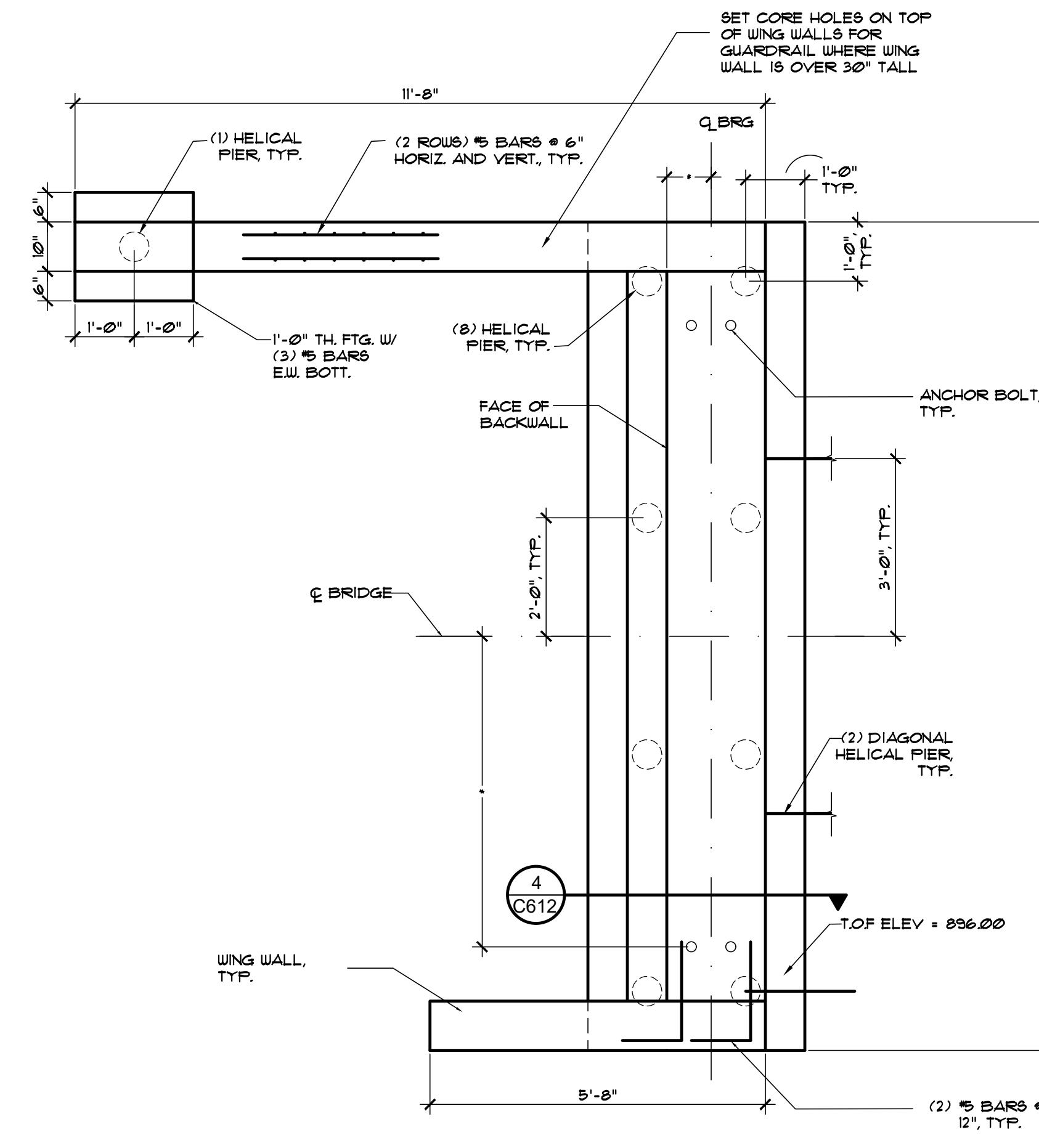
## TYPICAL DRAWINGS

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 Date last plotted: 3/27/2023 4:49 PM  
 Plotted By: Catherine Newberry

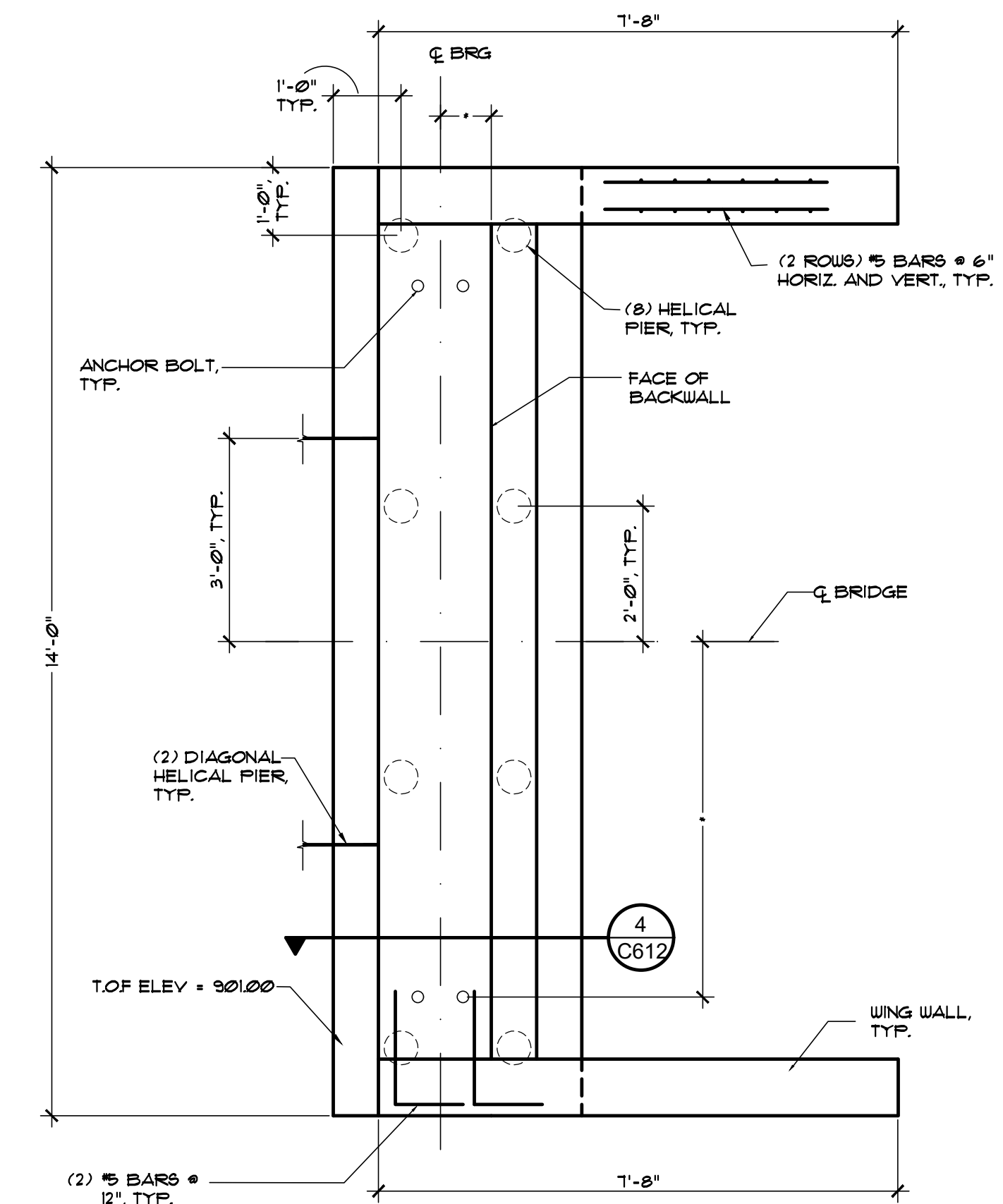


NOTES:  
TEMPLATE & HARDWARE PROVIDED  
BY BRIDGE MANUFACTURER  
HELICAL PIERS DESIGNED BY  
ENGINEER - SEE SPECS ON SHEET #32

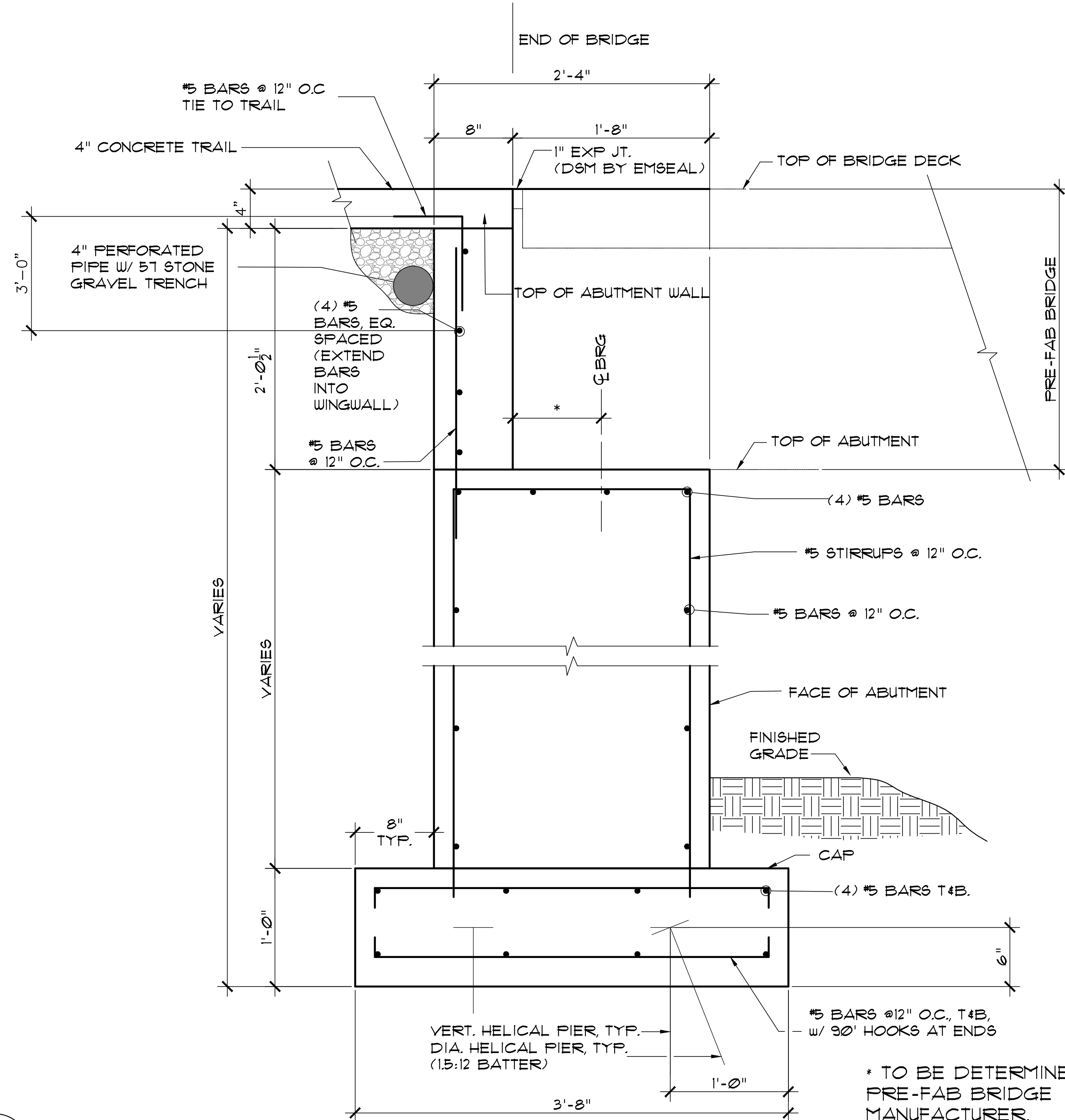
1 BRIDGE PLAN  
SCALE: 1/4"=1'-0"



2 ABUT. A PLAN  
SCALE: 1/2"=1'-0"



3 ABUT. B PLAN  
SCALE: 1/2"=1'-0"



NOTE:  
TEMPLATE FOR ATTACHMENT BOLTS  
FOR THE BRIDGE TO THE ABUTMENT  
SHALL BE PROVIDED BY THE  
BRIDGE MANUFACTURER PRIOR TO  
POURING THE ABUTMENT.

HELICAL PIERS: SEE NOTES ON SHEET #32  
(8) VERTICAL HELICALS PER ABUTMENT @ 50'  
(2) DIAGONAL HELICALS PER ABUTMENT @ 30'  
TOTAL: (20) HELICALS @ 25 KILOS EACH

4 SECTION - TYP.  
SCALE: 1 1/2"=1'-0"

**GENERAL NOTES**

1. THE STRUCTURE SHOWN ON THESE DRAWING IS SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
2. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
3. ALL DESIGN, INCLUDING MATERIAL STRESSES AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS, THE UNIFORM BUILDING CODE, OSHA AND GOVERNING AGENCIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS SHOWN ON THE DRAWINGS AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO ORDERING OR FABRICATING MATERIALS OR OTHERWISE PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES REQUIRED TO EXECUTE AND COMPLETE ALL ITEMS OF WORK AS SHOWN OR INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN, INCLUDING INCIDENTAL ITEMS TO EFFECT A FINISHED AND COMPLETE JOB, EVEN THOUGH SUCH ITEMS ARE NOT SHOWN OR PARTICULARLY MENTIONED.
6. THE GENERAL CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT ARE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ADEQUATELY SHORING EXISTING CONSTRUCTION WHILE PERFORMING NEW WORK.
7. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING DIMENSIONS, CONTACT THE ARCHITECT/ENGINEER FOR INFORMATION PRIOR TO SUBMITTING SHOP DRAWINGS.
8. THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE CIVIL DRAWINGS AND SPECIFICATIONS, AND WITH THE WORK OF ALL OTHER TRADES.
9. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL SITE APPURTENANCES DAMAGED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
10. INFORMATION IN THESE STRUCTURAL NOTES IS A SELECTED SUMMARY OF REQUIREMENTS. REFER TO SPECIFICATIONS FOR AMPLIFICATIONS OF REQUIREMENTS.
11. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

**CAST-IN-PLACE CONCRETE NOTES**

1. ALL CONCRETE WORK, CONSTRUCTION AND REINFORCING DETAILS SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE SUPPLEMENTS AND "THE SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS" (ACI-318).
2. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SCHEDULE BELOW, UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR MIX DESIGN REQUIREMENTS.

LOCATION	w/ C RATIO	SLUMP (±1")	% AIR (±1%)	MAXIMUM AGGREGATE	MIN. STRENGTH @ 28 DAYS
BRIDGE ABUTMENTS	.45	3.5"	5.5	1 1/2"	4,000 PSI
SITE CONCRETE	SEE CIVIL DRAWINGS				

3. CONTRACTOR SHALL SUBMIT MIX DESIGNS PROPORTIONED BY A LICENSED TESTING LABORATORY.
4. PROVIDE MINIMUM OF FOUR (4) CYLINDERS PER EACH FIFTY (50) YARDS OR FRACTION THEREOF POURED IN ONE DAY. BREAK ONE AT 7 DAYS AND TWO AT 28 DAYS.

**REINFORCING STEEL**

1. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI-315).
2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
3. LAP SPLICES AND EMBEDMENT LENGTHS SHALL CONFORM TO ACI 318 -CHAPTER 12.
4. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING WHERE FOOTINGS, WALLS OR BEAMS MEET AT CORNERS OR INTERSECT. THIS ALSO INCLUDES INTERSECTIONS OF CONCRETE WITH MASONRY WORK.
5. PROVIDE SHOP DRAWINGS FOR REINFORCING INCLUDING ALL NECESSARY ACCESSORIES TO HOLD REINFORCING SECURELY IN PLACE.
6. CLEAR COVER CONCRETE PROTECTION FOR REINFORCING STEEL SHALL BE:
  - A. 3" - CONCRETE CAST AGAINST EARTH.
  - B. 2" - FORMED SURFACES IN CONTACT WITH SOIL OR EXPOSED TO WEATHER.

**FOUNDATIONS**

1. ALL FORMS AND REINFORCING STEEL IN PLACE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE ANY CONCRETE IS PLACED.
2. NO FOUNDATION SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
3. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB BEFORE COMMENCING WORK. EPOXY ANCHORS SHALL BE HIT HY-200 INJECTION ADHESIVE ANCHORS AS MANUFACTURED BY HILTI, INC., TULSA OK (800-879-8000).

**DESIGN CRITERIA NOTES**

1. **GENERAL BUILDING CODE**  
THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS.
2. **DEAD AND LIVE LOADS**
  - A. THE DEAD LOADS ARE THE SELF WEIGHT OF MATERIALS OF CONSTRUCTION.
  - B. THE UNIFORMLY DISTRIBUTED AND/OR CONCENTRATED LIVE LOADS USED IN THE DESIGN OF THE BUILDING ARE BASED ON THE FOLLOWING INTENDED USE OR OCCUPANCIES:
    - a. PEDESTRIAN BRIDGE: 90 PSF

5. **GEOTECHNICAL INFORMATION**  
THE STRUCTURE HAS BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 3,000 PSF PER THE GEOTECHNICAL REPORT BY MATRIX ENGINEERING GROUP, INC. DATED JULY 5, 2019. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND REVIEW THE RECOMMENDATIONS PRIOR TO START OF CONSTRUCTION.

**ASSUMED RETAINING WALL PARAMETERS:**

- A. ACTIVE EQUIVALENT FLUID PRESSURE: 45 PSF
- B. PASSIVE EQUIVALENT FLUID PRESSURE: 360 PSF
- C. SOIL DENSITY: 120 PCF

6. **HANDRAILS AND GUARDS**  
THE HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED FOR 50 PLF OR A CONCENTRATED LOAD OF 200 POUNDS AT ANY POINT APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE. THESE LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

**PRE-ENGINEERED PEDESTRIAN BRIDGE NOTES (DELEGATED DESIGN)**

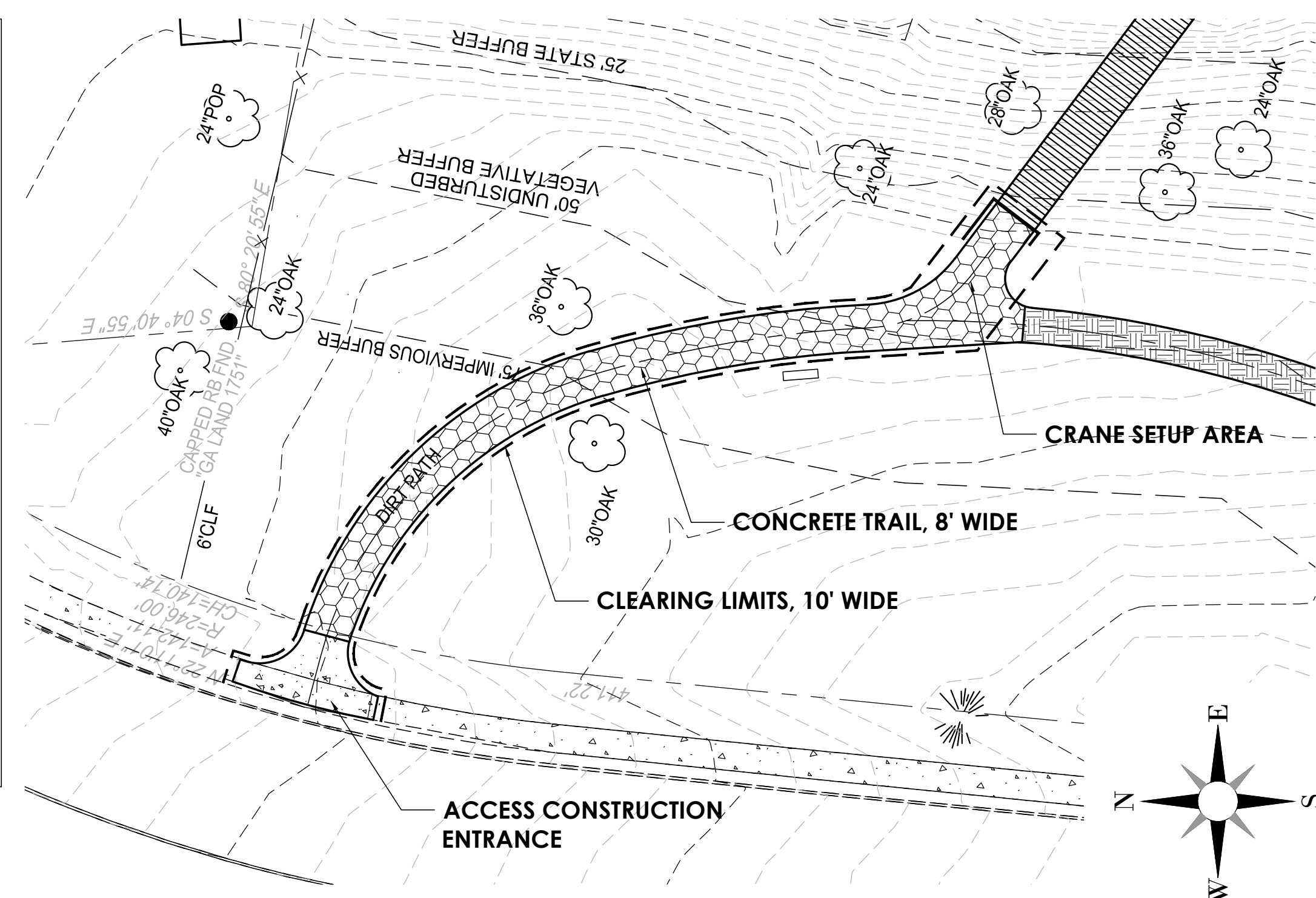
1. THE PRE-ENGINEERED PEDESTRIAN BRIDGES SHALL BE DESIGNED BY THE BRIDGE MANUFACTURER (BASIS OF DESIGN: GATOR BRIDGE) IN CONFORMANCE TO THE PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS.
2. FOUNDATION DESIGNS ARE BASED ON REACTIONS PROVIDED BY GATOR BRIDGE. THE FOUNDATIONS SHALL NOT BE CONSTRUCTED UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE FINAL REACTIONS SUPPLIED BY THE BRIDGE MANUFACTURER.
3. CONTRACTOR SHALL SUBMIT DRAWINGS AND PERTINENT DOCUMENTATION FROM THE BRIDGE MANUFACTURER BEARING THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. THE SUBMITTAL SHALL IDENTIFY AND INDICATE THE FOLLOWING:
  - A. IDENTIFY PROJECT AND LIST LOADING AND OTHER DESIGN CRITERIA.
  - B. INCLUDE FABRICATION AND ERECTION DRAWINGS WHICH INDICATE IN DETAIL THE CONSTRUCTION OF THE STANDARD STRUCTURE USED OR AS MODIFIED TO COMPLY WITH THE REQUIREMENTS OF THIS PROJECT.
  - C. ALL CONNECTION DETAILS, OPENINGS, AND OTHER SPECIAL DETAILS.
  - D. MAGNITUDE, LOCATION, AND DIRECTION OF BUILDING REACTIONS ON THE FOUNDATION UNDER ALL DESIGN CONDITIONS.
  - E. CALCULATIONS SUPPORTING THE DESIGN OF STANDARD STRUCTURE, MODIFIED CONDITIONS AN RELATED COMPONENTS.
4. THE CONTRACTOR SHALL REVIEW THE BRIDGE MANUFACTURER'S SUBMITTAL FOR COMPLETENESS AND CONTENT PRIOR TO SUBMITTAL TO THE ENGINEER FOR REVIEW.
5. CONNECTION HARDWARE, BOLTS & TEMPLATE SHALL BE PROVIDED TO THE GENERAL CONTRACTOR PRIOR TO POURING THE PILE CAP

**HELICAL PIER FOUNDATION NOTES**

1. A HELICAL PIER FOUNDATION CONTRACTOR SHALL BE EMPLOYED BY THE GENERAL CONTRACTOR TO DESIGN AND DETAIL THE HELICAL PIER FOUNDATION SYSTEM. THE HELICAL PIER FOUNDATION SYSTEMS SHALL BE DESIGNED BASED ON THE FOLLOWING LOADING INFORMATION:
  - A. VERTICAL HELICAL PIERS: **25.0 KIPS (8) PER ABUTMENT**
  - B. DIAGONAL HELICAL PIERS: **25.0 KIPS (2) PER ABUTMENT**
2. THE HELICAL PIER LAYOUT AND DETAILING DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. SHOP DRAWINGS TO BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW.
3. THE HELICAL PIER FOUNDATION DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
  - A. HELICAL PIER LAYOUT, INCLUDING PLAN DIMENSIONS AND ELEVATIONS.
  - B. DESIGN AND DETAILING OF CAP PLATES THAT ARE EMBEDDED IN THE CONCRETE FOUNDATIONS.
  - C. THE DESIGN AND/OR SPECIFYING OF ALL CONNECTION HARDWARE (BOLTS, NUTS, PLATES, ANGLES, ETC.) USED IN THE HELICAL PIER FOUNDATION SYSTEM.
4. CONTRACTOR SHALL CONFIRM EXISTING GRADE ELEVATIONS AND COORDINATE TOP OF FOOTING ELEVATIONS.
5. GEOTECHNICAL DATA GATHERED IN THE FIELD SHALL BE PROVIDED TO THE HELICAL PIER FOUNDATION CONTRACTOR. THE GEOTECHNICAL REPORT CAN BE FOUND IN THE APPENDIX OF THE PROJECT MANUAL.
6. SEE SECTION 05663 OF THE PROJECT MANUAL FOR FURTHER INFORMATION.

**BRIDGE CONSTRUCTION PROCESS:**

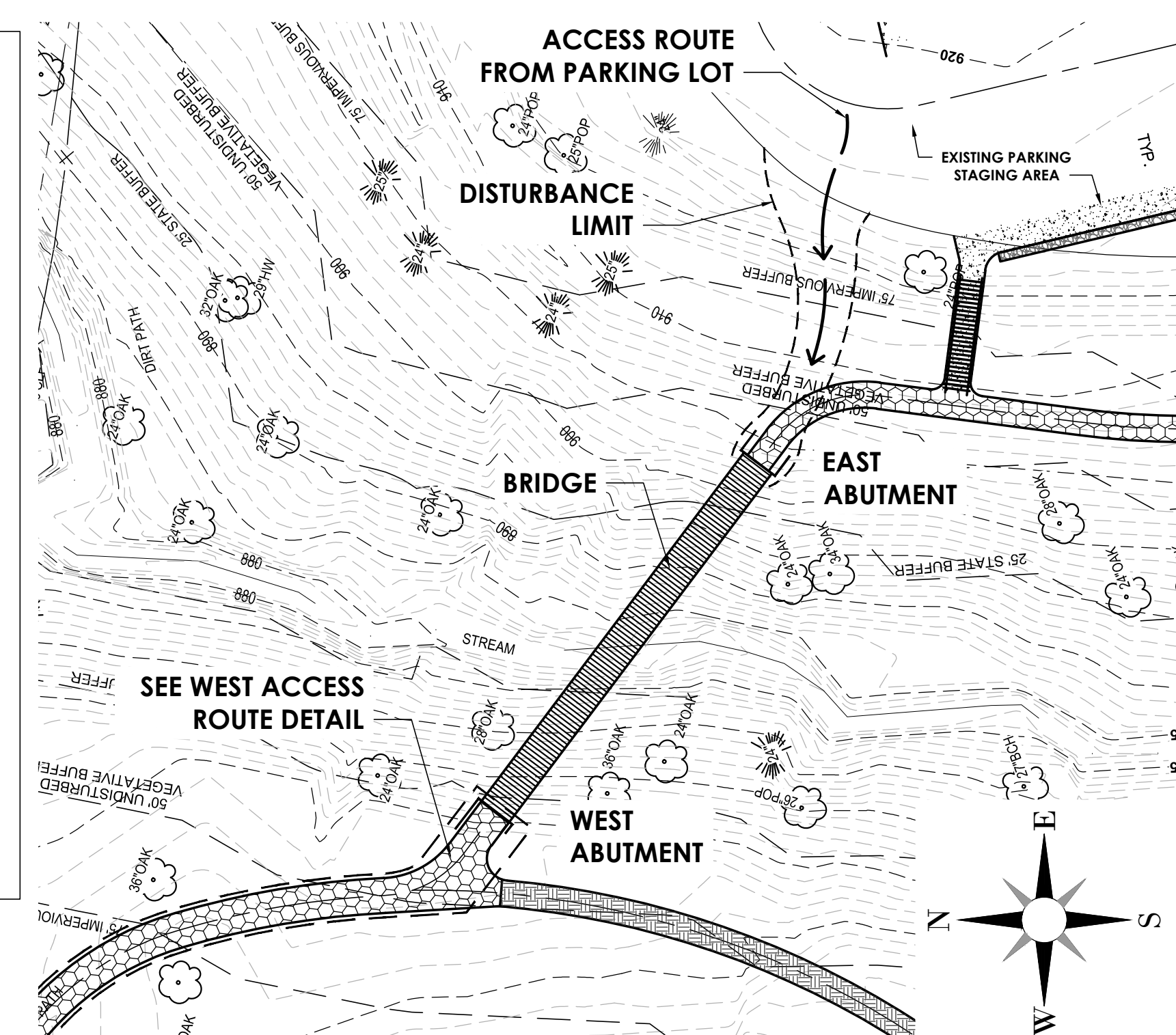
1. STAKE ACCESS ROUTE TO BRIDGE
2. CLEAR VEGETATION, 10' WIDE
3. PRUNE OVERHANGING TREE LIMBS, LIMB UP 12'-0"
4. CLIP VEGETATION AND SPREAD ON SURFACE
5. LAY FABRIC ON GROUND, 10' WIDE
6. APPLY LAYER OF #57 STONE BASE FOR ROAD
7. USE GROUND ROAD FOR CONSTRUCTION ACCESS FOR ABUTMENT & BRIDGE
8. UPON COMPLETION OF BRIDGE:
  - (A) PREPARE BASE FOR CONCRETE TRAIL
  - (B) INSTALL CONCRETE TRAIL
  - (C) CLEAN-UP



1 BRIDGE CONSTRUCTION ACCESS PLAN & NOTES - WEST  
SCALE: 1" = 20'-0"

**PROCESS: ACCESS ROUTE AT EAST ABUTMENT:**

1. STAKE LOCATION OF ABUTMENT
2. STAKE LOCATION OF ACCESS ROUTE
3. ADJUST STAKEOUT IN THE FIELD WITH OWNER'S REPRESENTATIVE, ARBORIST, LANDSCAPE ARCHITECT, AND CONTRACTOR
4. CLEAR ROUTE 12' WIDE OF VEGETATION
5. GRADE RAMP SLOPE TO ABUTMENT
6. COMPACT AND LAY STRUCTURAL FABRIC AND GRAVEL AS BASE
7. PRUNE TREE LIMBS THAT ENCRANCH ON CRANE SWING SPACE
8. UPON CONSTRUCTION COMPLETION:
  - (A) REMOVE GRAVEL & FABRIC
  - (B) FINE GRADE TO SMOOTH
  - (C) COVER WITH 3" LAYER OF MULCH



2 EAST ACCESS ROUTE  
SCALE: 1" = 30'-0"

**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

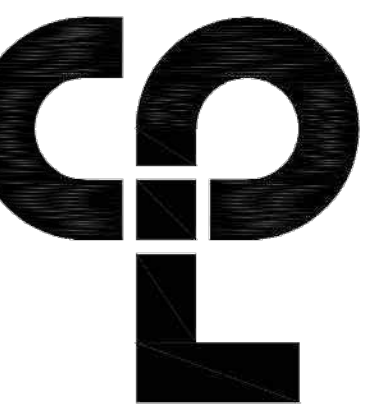
**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	01-24-2023	LDP CITY COMMENT #1
2	01-31-2023	BUILDING PERMIT
3	02-09-2023	LDP CITY COMMENT #2
4	03-27-2023	LDP CITY COMMENT #3

**SHEET INFORMATION**

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Scale: VARIES  
Checked By: MESS  
Created By: LAG  
Drawing Title: SITE DETAILS 14  
BRIDGE STRUCTURAL NOTES





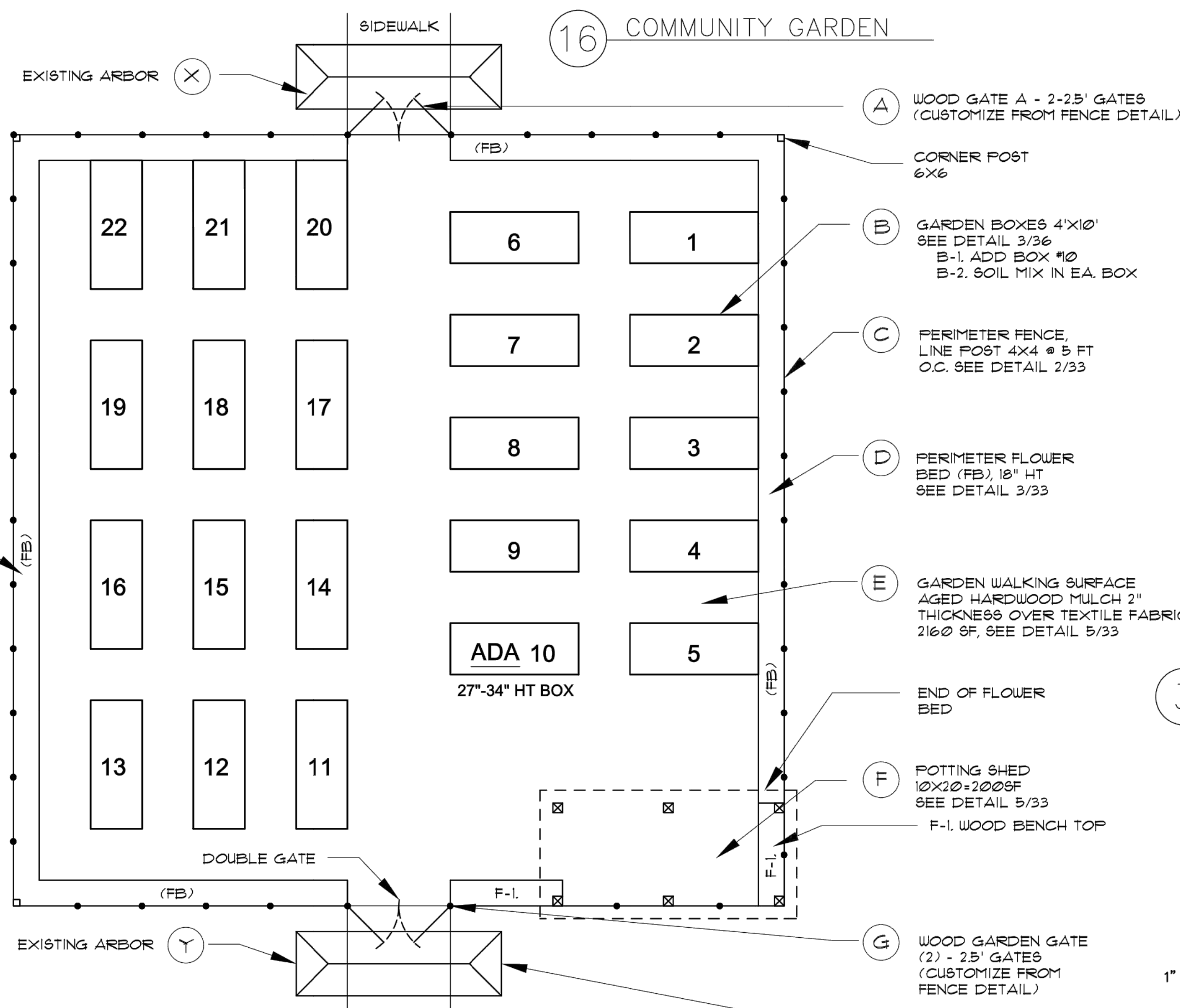
PROJECT INFORMATION

Project Number: 1591.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

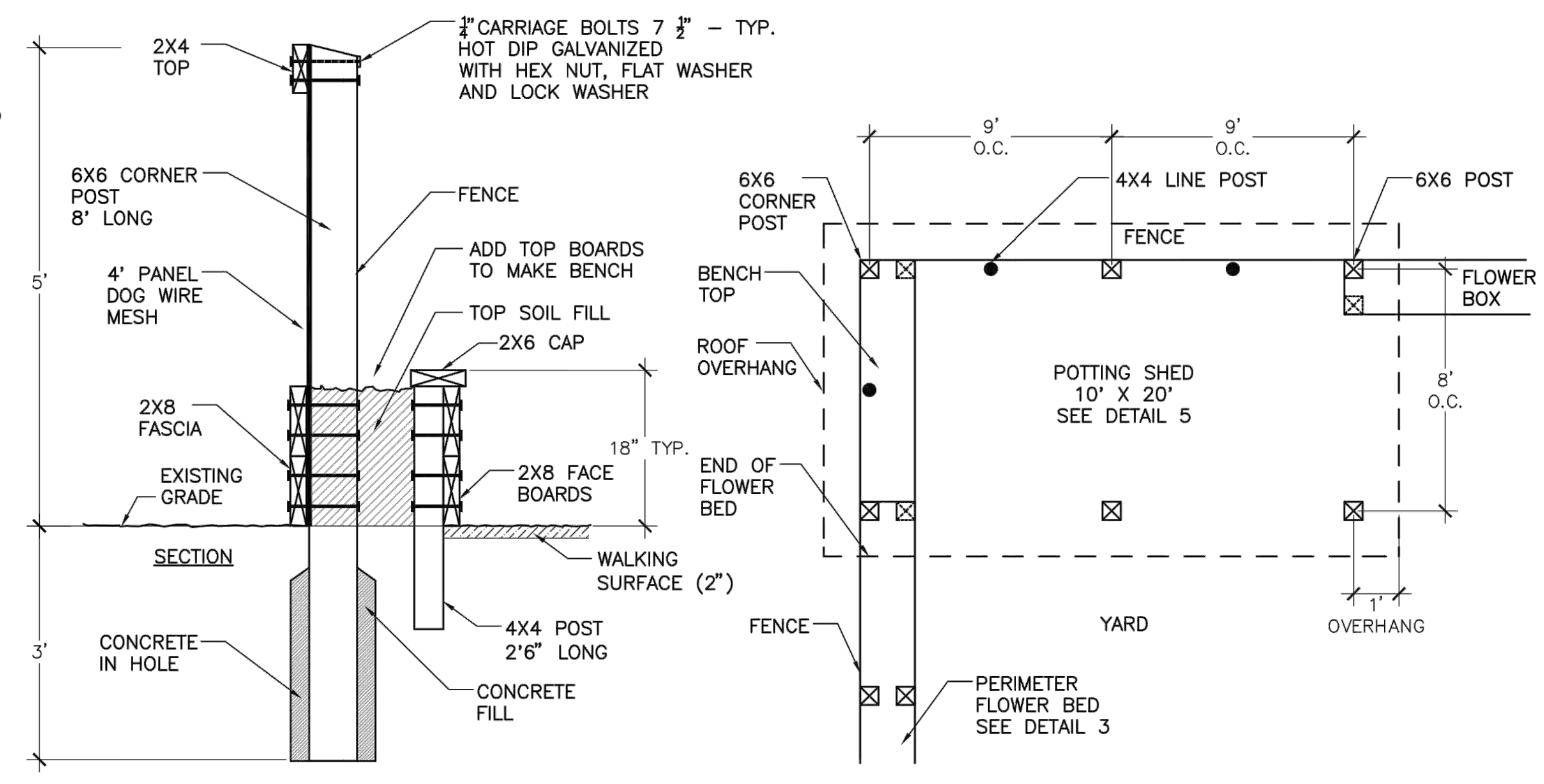
Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

REVISION SCHEDULE

1 01-24-2023 LSP CITY COMMENT #1  
2 02-01-2023 BUILDING PERMIT  
3 02-03-2023 LSP CITY COMMENT #2



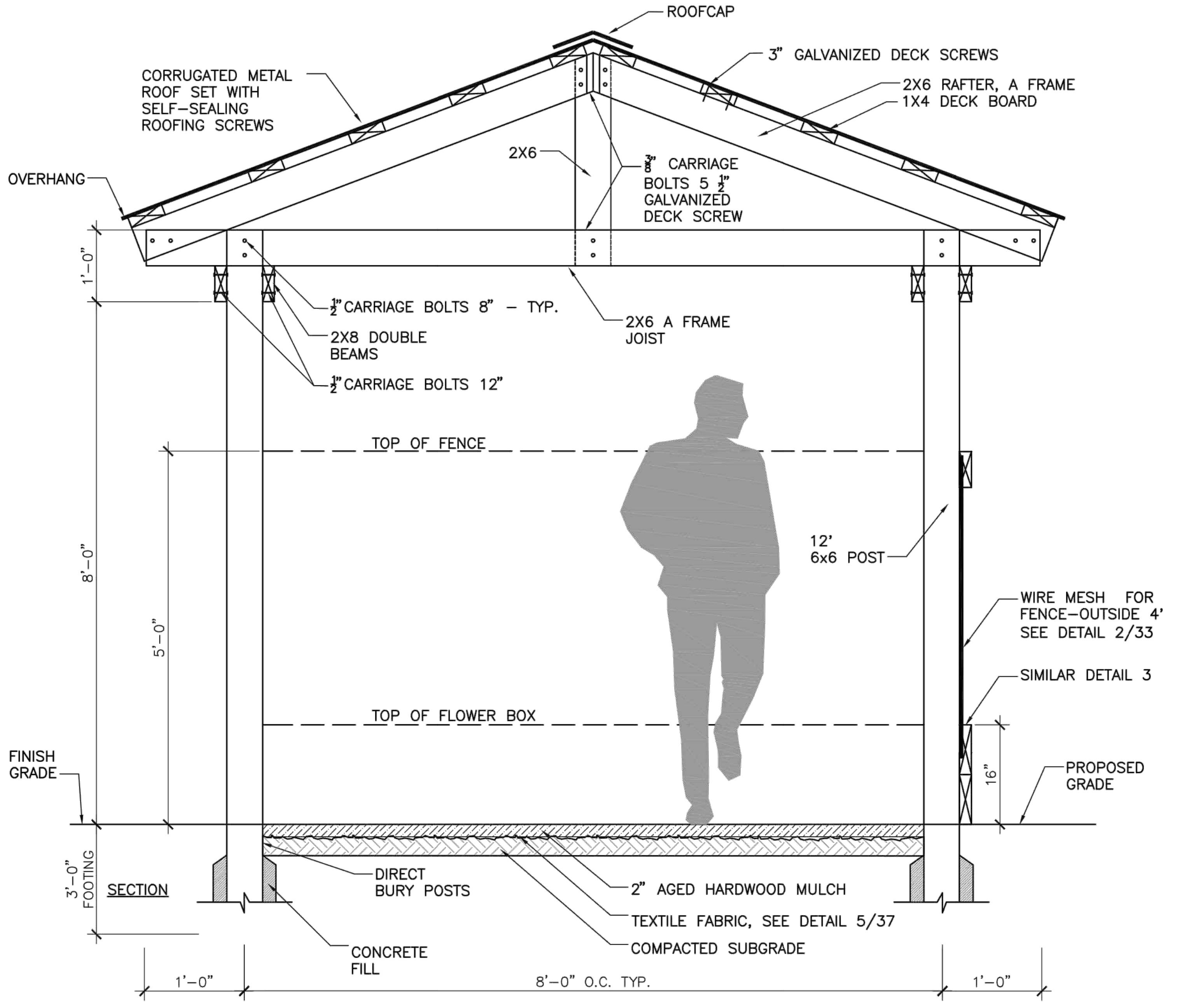
1 COMMUNITY GARDEN - 60' X 60'  
SCALE: 3/4" = 1'-0"



3 SECTION PERIMETER FLOWER BED  
SCALE: 1" = 1'-0"

4 PLAN POTTING SHED WITH FENCE  
SCALE: NTS

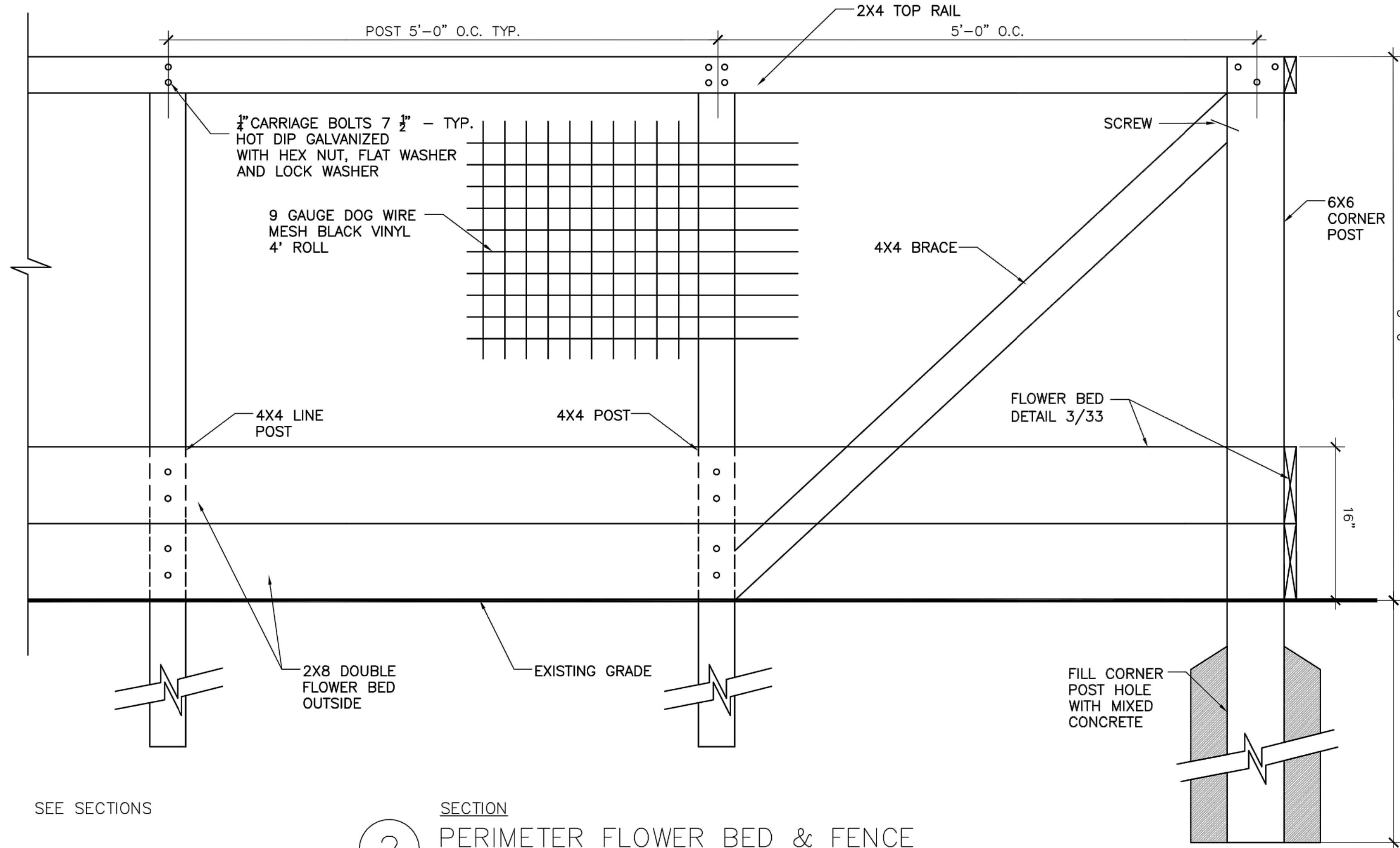
NOTE: ALL WOOD TO BE GROUND CONTACT PRESSURE TREATED SYP LUMBER  
ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED



5 SECTION POTTING SHED  
SCALE: 1" = 1'

- 1. BUILDING PERMIT MAY BE PICKED UP AT THE BROOKHAVEN CITY HALL
- 2. BOTTOM OF POST FOOTINGS MUST BE BELOW 12" FROM FINISHED GRADE

NOTES:  
INTERNATIONAL BUILDING CODE (IBC). ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.  
ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.  
FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.



2 SECTION PERIMETER FLOWER BED & FENCE  
SCALE: 1/2" = 1'-0"



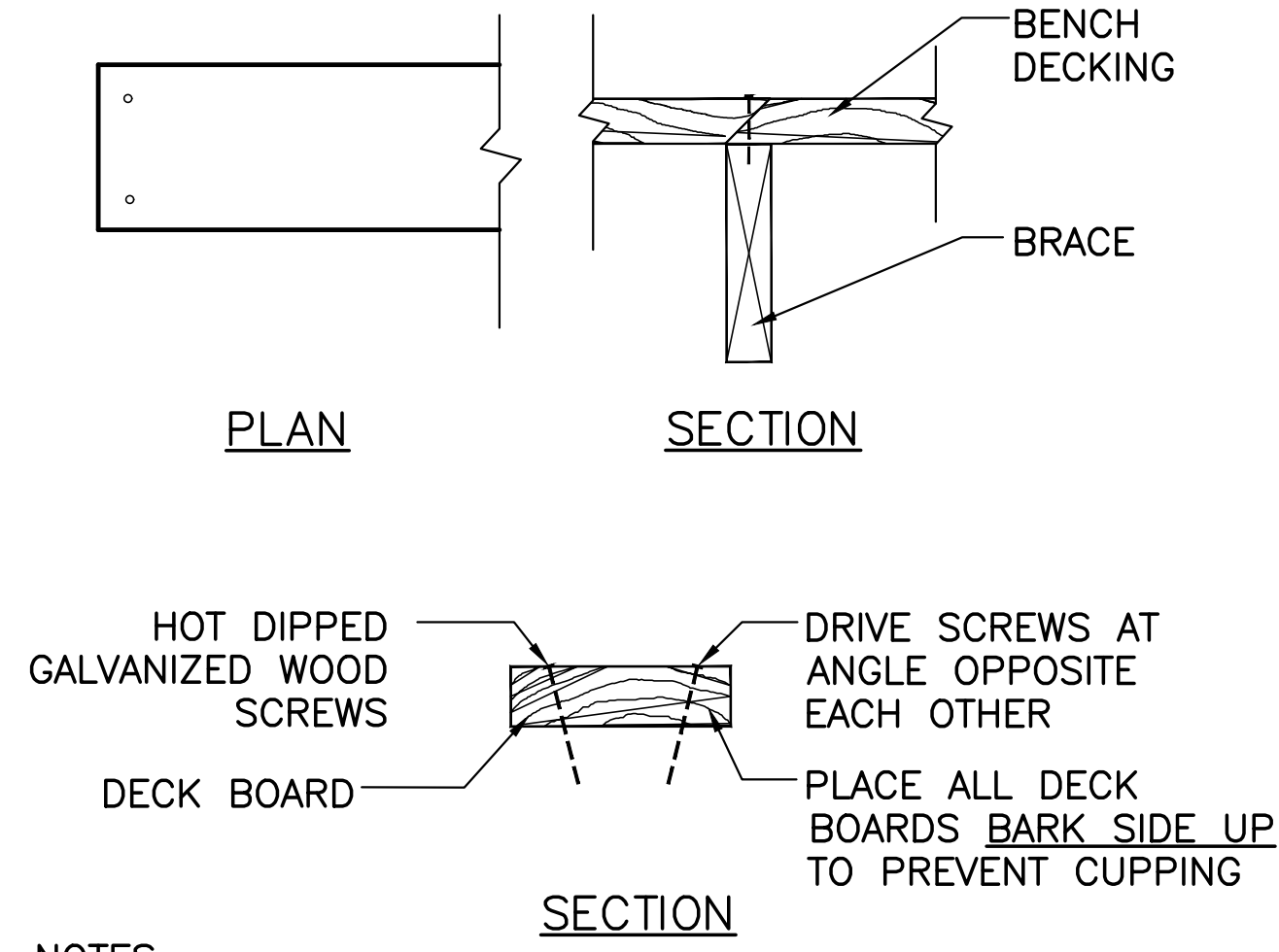
THIS IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON UNLAWFULLY ACTING UNDER THE SEAL OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR. TO AVOID SUCH VIOLATION, IF AN FIRM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS USED, THE ARCHITECT MUST SIGN AND SEAL THE DRAWING HIMSELF, AND THE ARCHITECT MUST BE LICENSED IN THE STATE OF GEORGIA AND THE ARCHITECT MUST BE LICENSED IN THE STATE OF GEORGIA AND THE DATE OF SUCH LICENSE AND A SPECIFIC DESCRIPTION OF THE ACTIVITIES.

SHEET INFORMATION

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Checked by: LAG  
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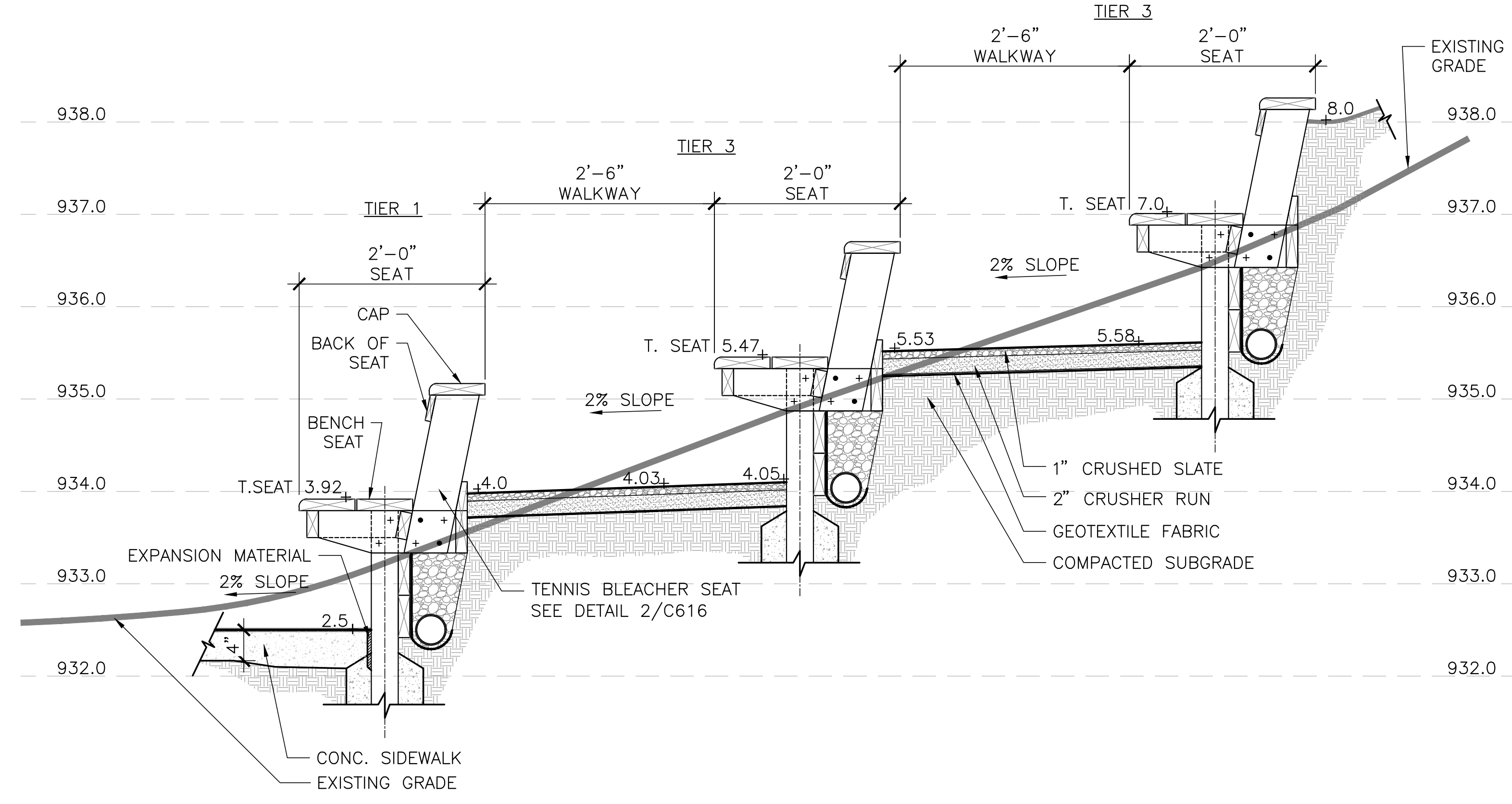
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Date last plotted: 3/6/2023 12:44 PM  
Plotted By: Catherine Newberry



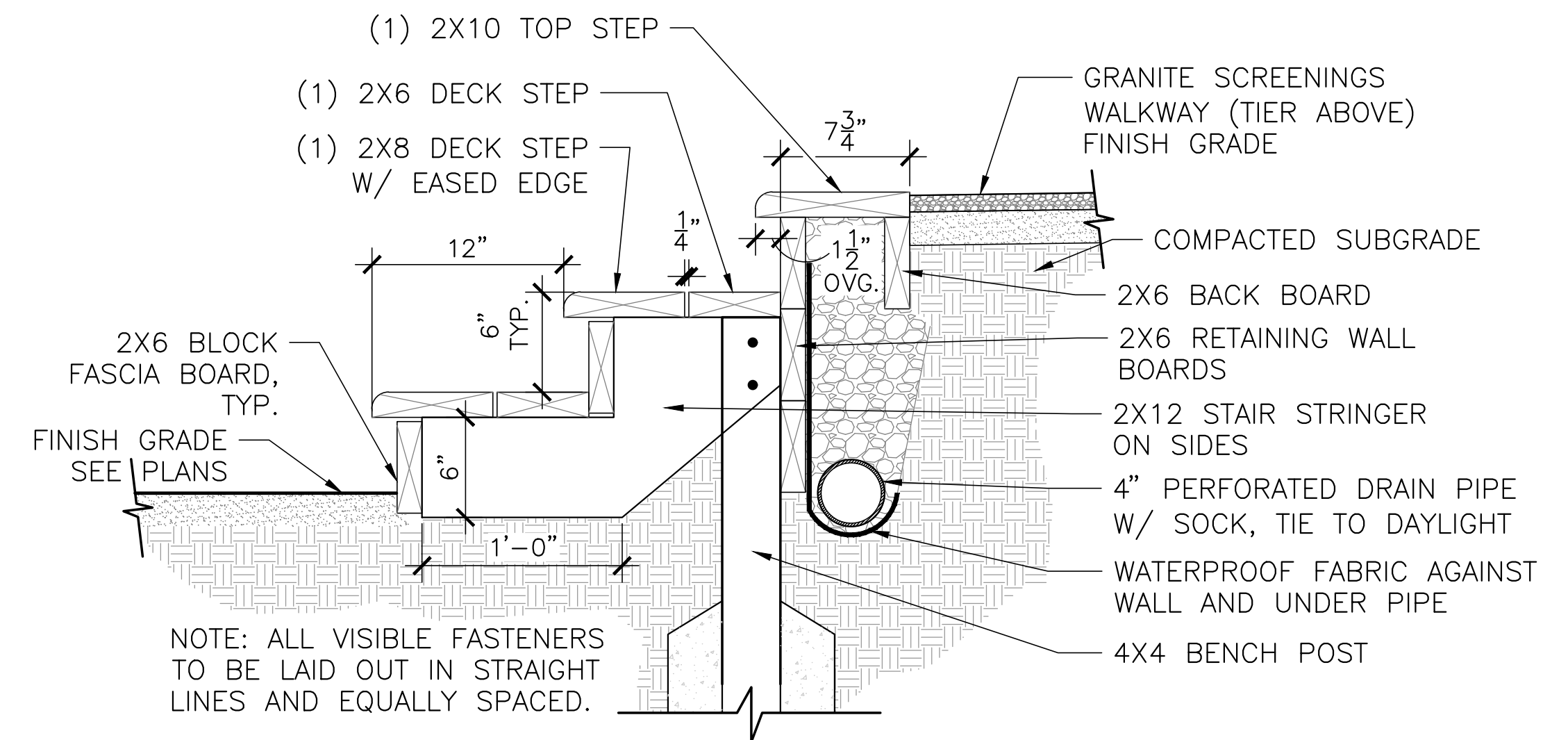


- NOTES:**
- USE HOT DIPPED GALVANIZED WOOD SCREWS AND CARRIAGE BOLTS
  - PRE DRILL WOOD SCREW HOLES.
  - ALL WOOD SHALL BE #1 DENSE SOUTHERN YELLOW PINE W/ BELOW GROUND TREATMENT.

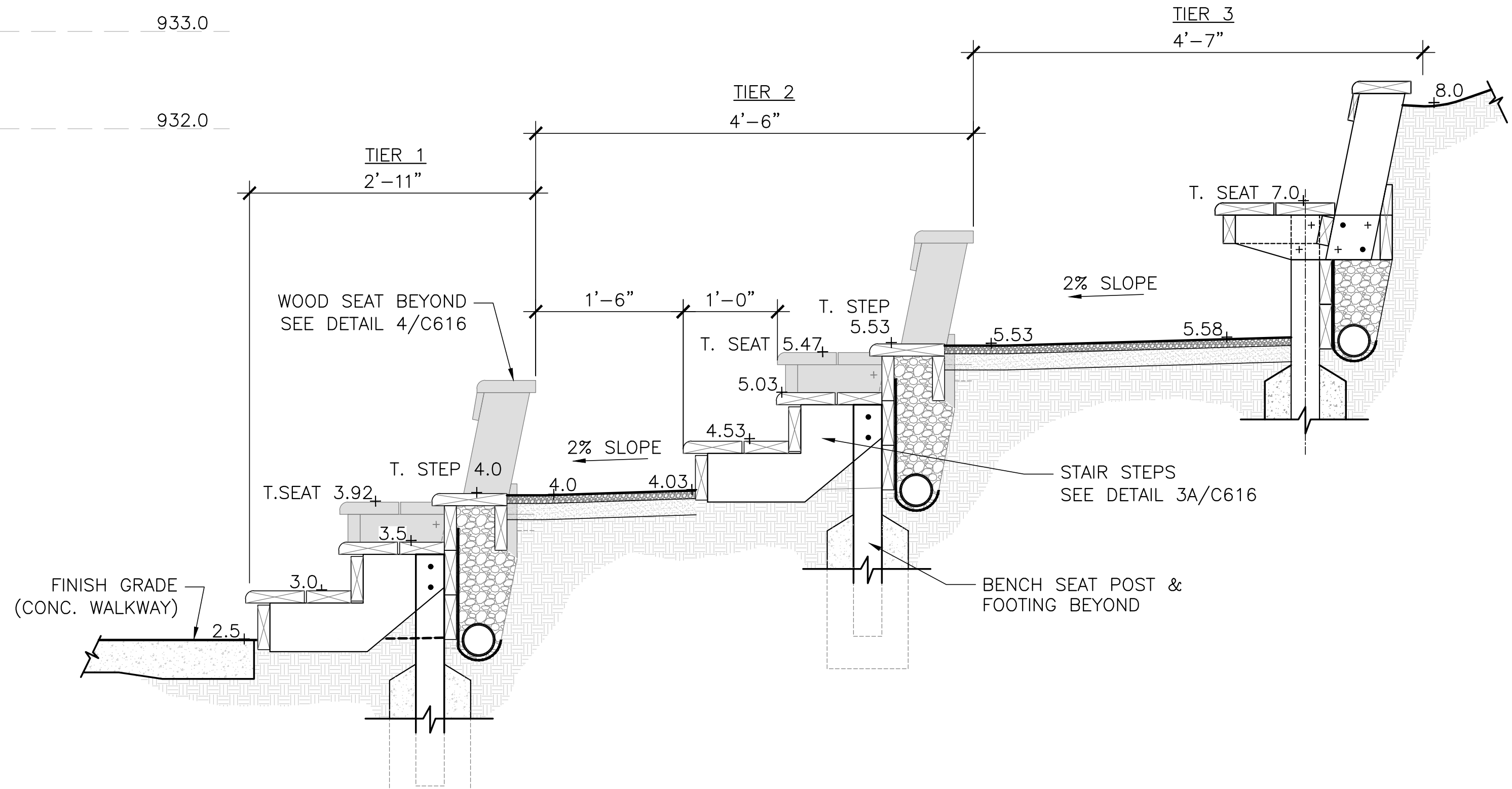
**1 WOOD DETAILS - TYP.**  
 NTS



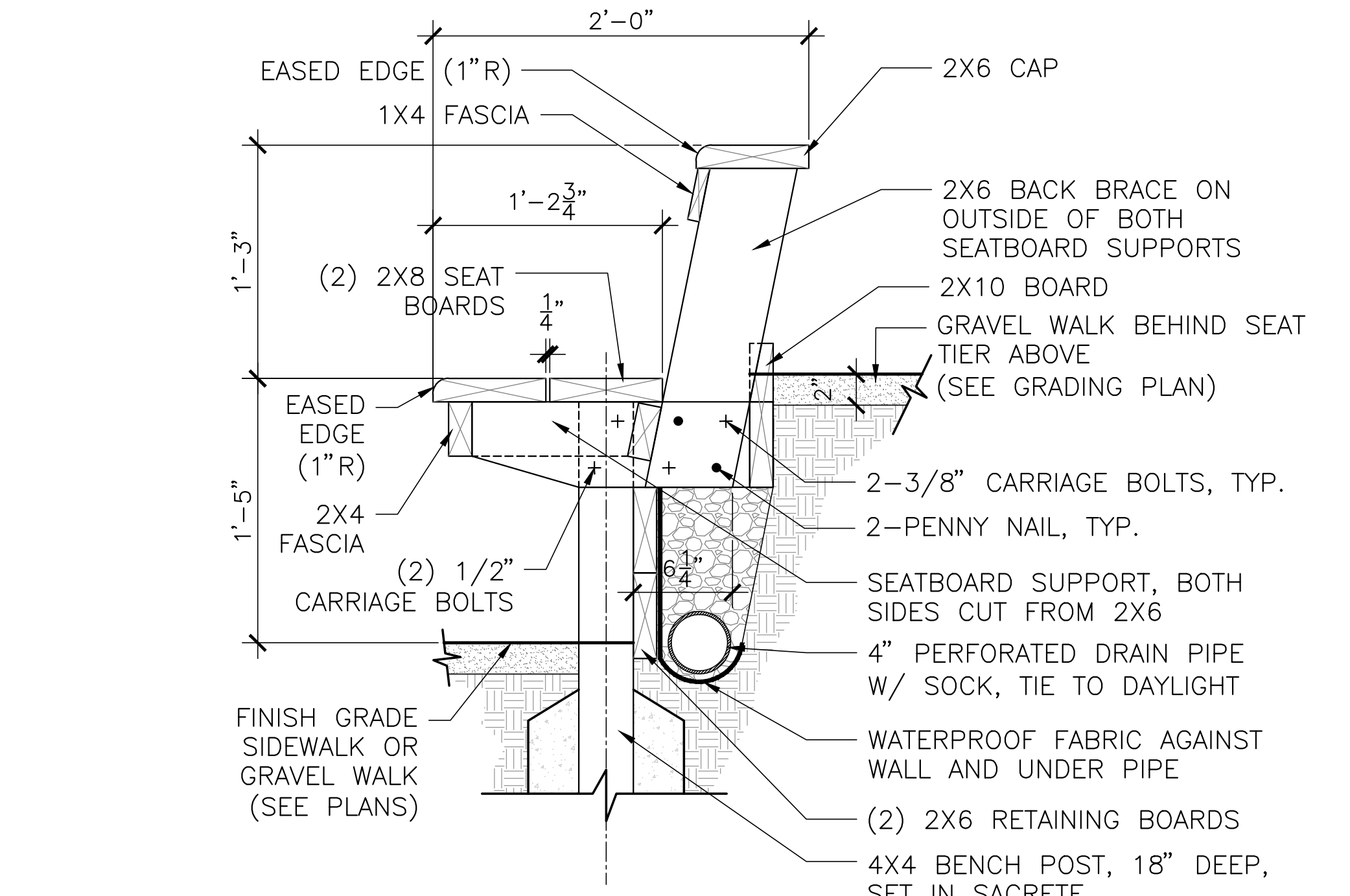
**2 TENNIS BLEACHER - SECTION A**  
 SCALE: 1" = 1'-0"



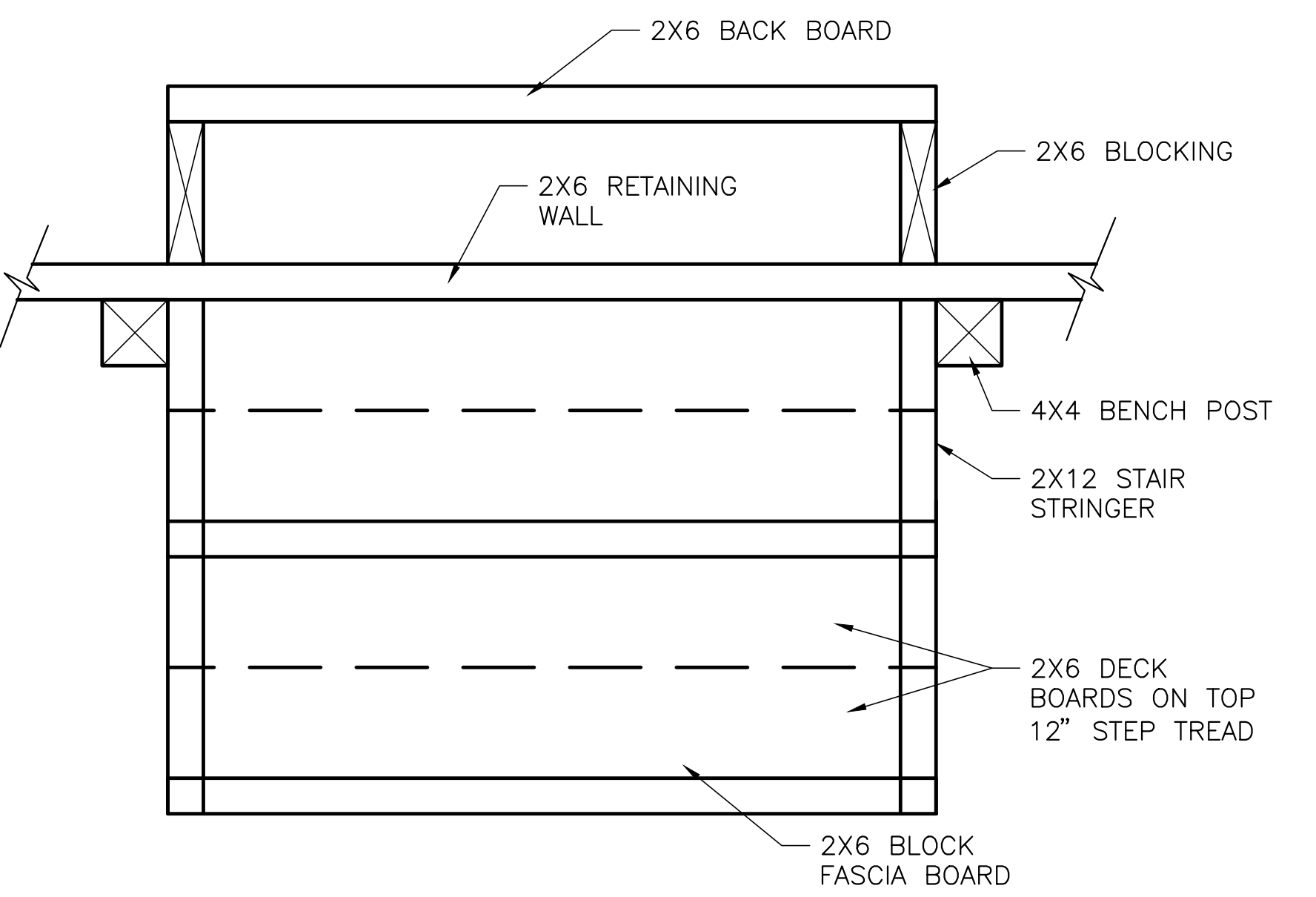
**3A WOOD STEPS**  
 SCALE: 1-1/2" = 1'-0"



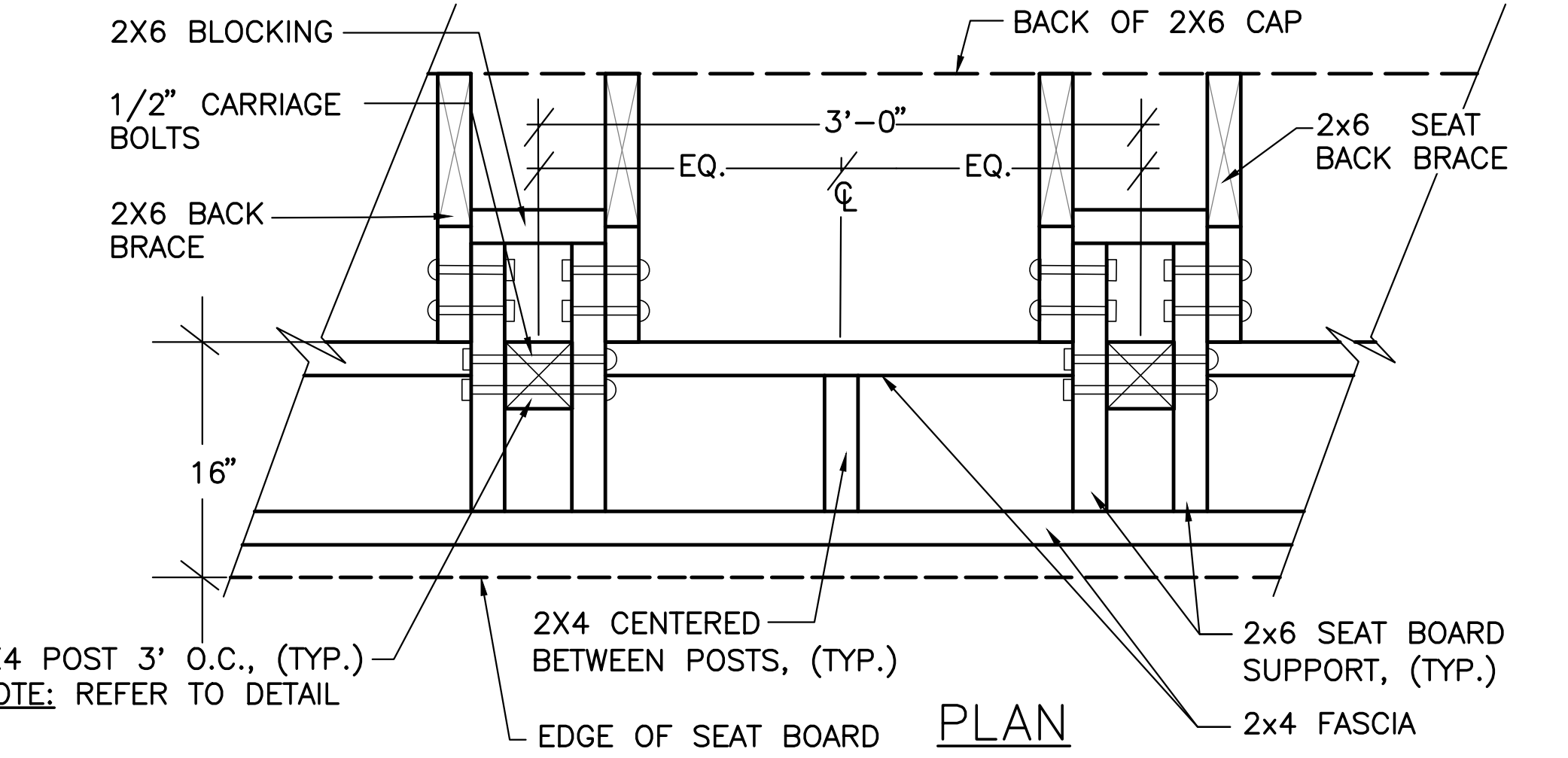
**3B WOOD STEPS - SECTION B**  
 SCALE: 1" = 1'-0"



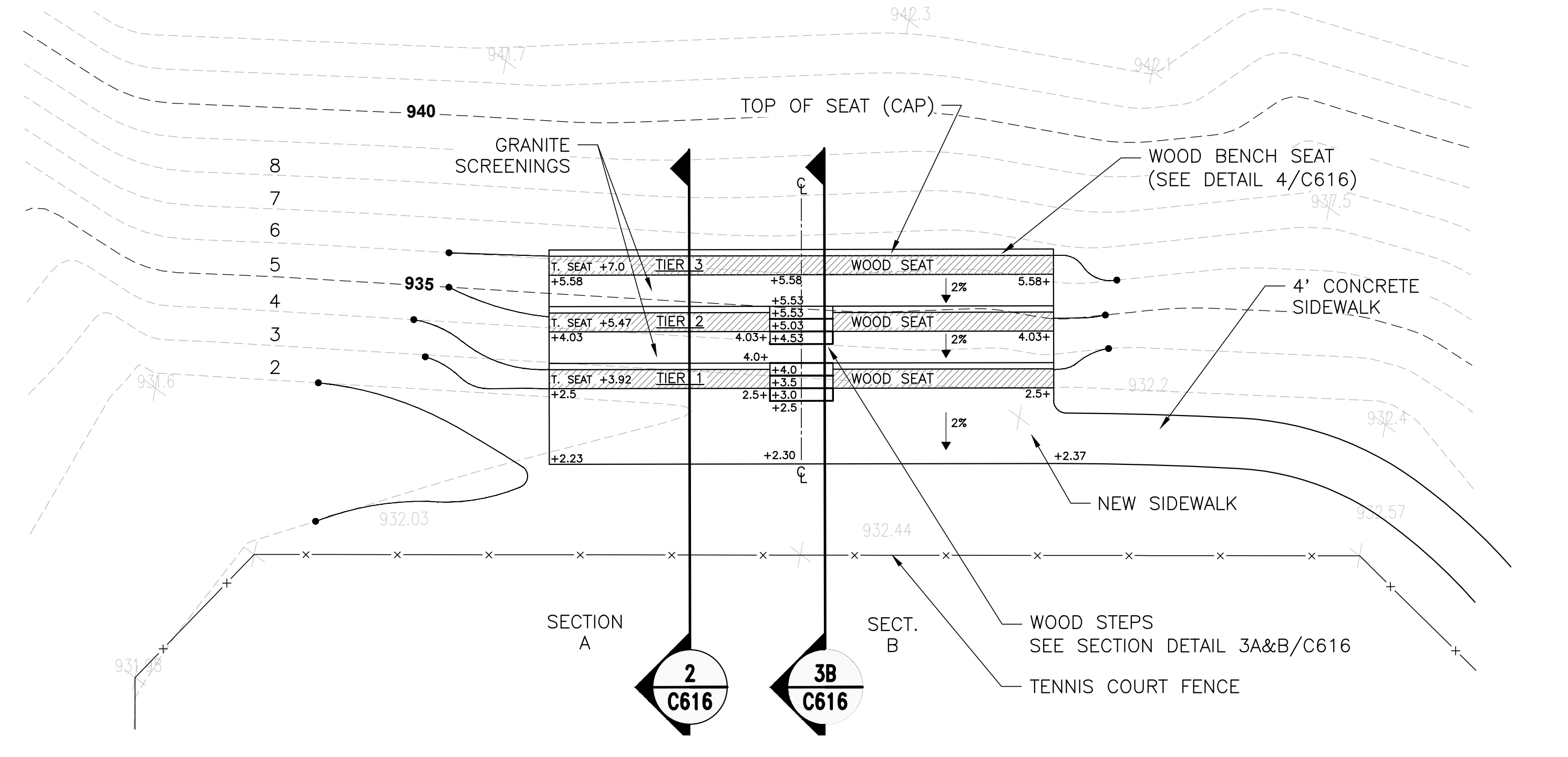
**4 WOOD SEAT - SECTION**  
 SCALE: 1-1/2" = 1'-0"



**6 STEPS PLAN**  
 NTS



**5 WOOD SEAT & BACK FRAME PLAN**  
 NTS



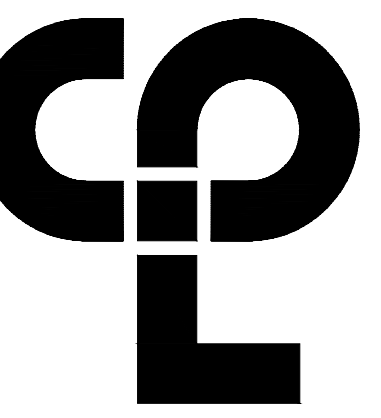
**7 TENNIS COURT SEATING - PLAN & GRADING**  
 SCALE: 1/8" = 1'-0"



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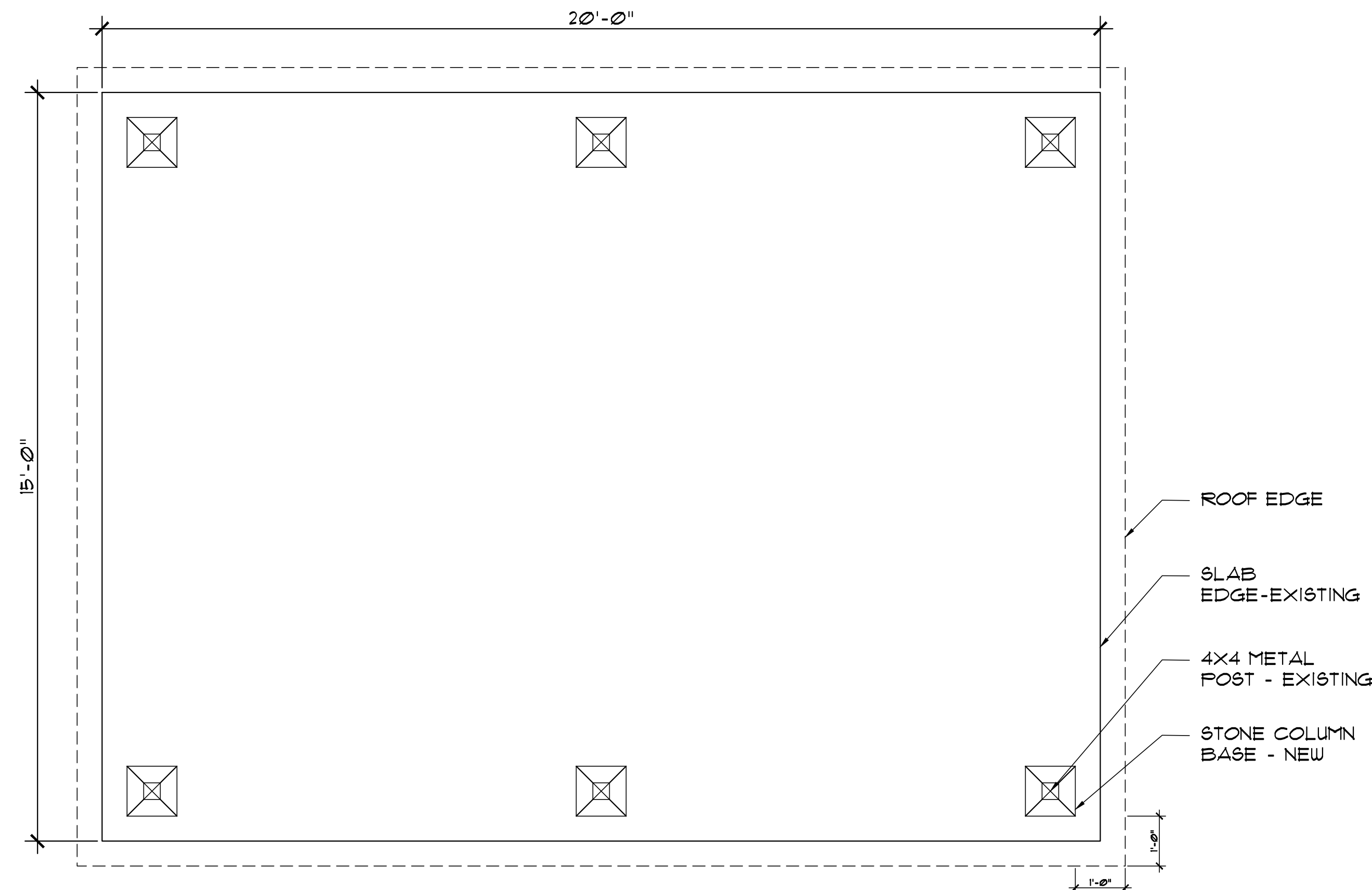
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 Drawing Title: SITE DETAILS 17

Sheet Size: 30x42  
 Drawing Name: S:\Projects\Brookhaven, GA\AutoCAD\REF\Briarwood Park\_SiteDetails.dwg  
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 Date last plotted: 3/28/2023 3:04 PM  
 Plotted By: Catherine Newberry



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSONS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO AFFIX HIS OR HER NAME TO THIS SET OF PLANS, AND THE SIGNATURE OF ANY PERSON WHOSE SIGNATURE AND THE DATE OF SUCH SIGNATURE AND A PROFESSIONAL SEAL ARE REQUIRED.

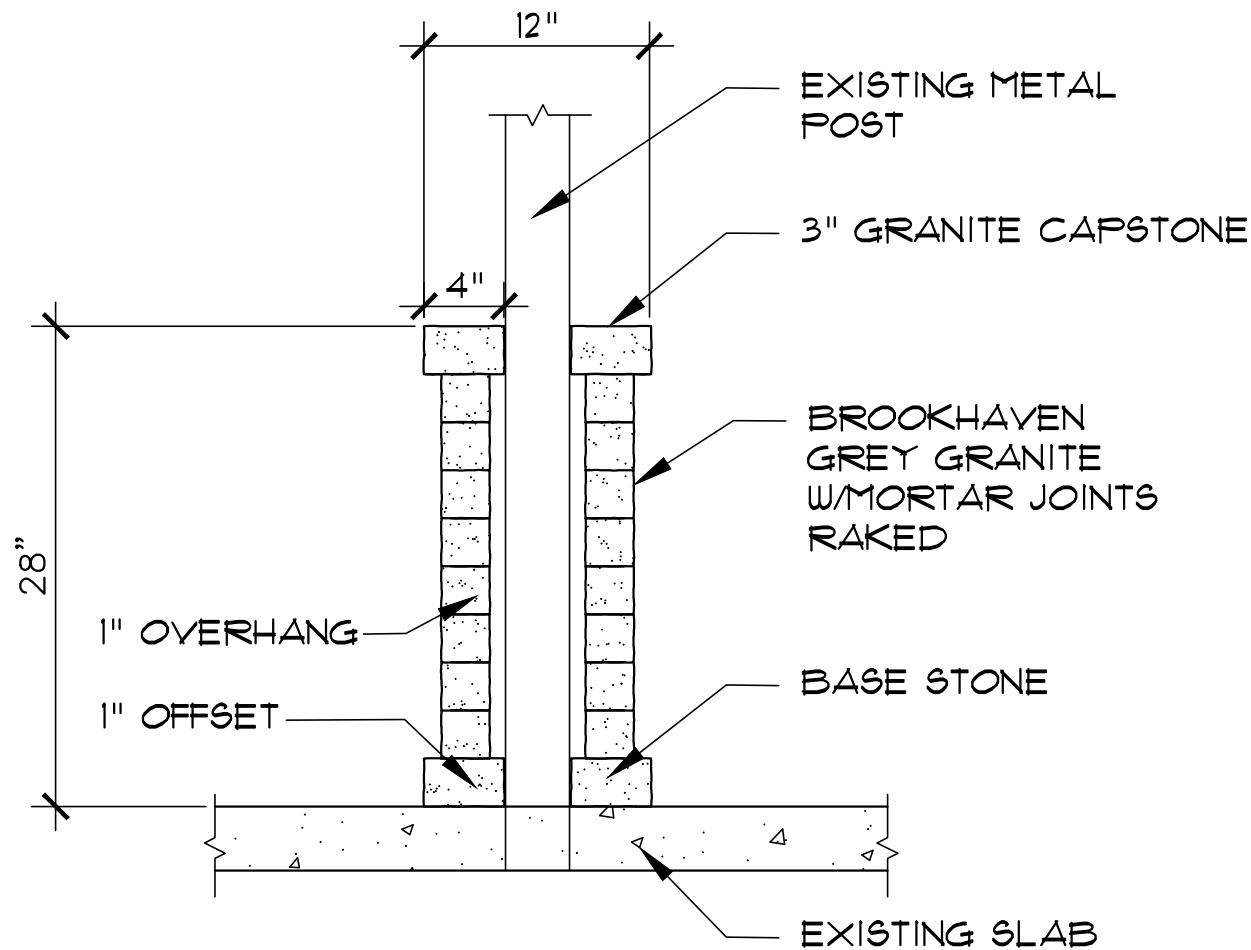
EXISTING SHELTER 20x15



PLAN  
1/2"=1'-0"

RENOVATION OF EXISTING PARK SHELTER:

- 1. REMOVE THE 4 EXISTING PICNIC TABLES TO BE REPLACED WITH NEW ONES.
- 2. PROVIDE TABLES TO THE CLIENT FOR SALVAGE (MAYBE GIVE TO THE FORTING BARN)
- 3. REMOVE METAL ROOF MATERIALS.
- 4. REPAIR UNDERNEATH CEILING BOARDS AS NEEDED.
- 5. REPAIR OR ADD ANY SLATS OR RAFTERS NEEDED TO SUPPORT THE ROOF.
- 6. REPLACE THE ROOF WITH NEW STANDING SEAM TIN ROOF MATERIAL AND CROWN PIECE.
- 7. PRESSURE-WASH THE POSTS, BEAMS, CEILING BOARDS, AND CONCRETE SLAB FLOOR.
- 8. PRESSURE-WASH THE GRILLS AND SPRAY-PAINT BLACK WITH ACRYLIC WEATHER RESISTANT PAINT.
- 9. STAIN THE WOODEN PARTS OF THE SHELTER WITH WEATHER RESISTANT TAN SEALANT STAIN.
- 10. SEAL THE CONCRETE WITH WEATHER RESISTANT CLEAR CONCRETE SEALANT.
- 11. PAINT POSTS DARK GREY - 6 EACH.
- 12. BUILD GRANITE BASE AROUND EACH COLUMN - SEE DETAIL.
- 13. PLACE 3 NEW TABLES UNDER THE SHELTER.
- 14. REPLACE BENCH AND TRASH CAN WITH NEW ONES AS SPECIFIED.

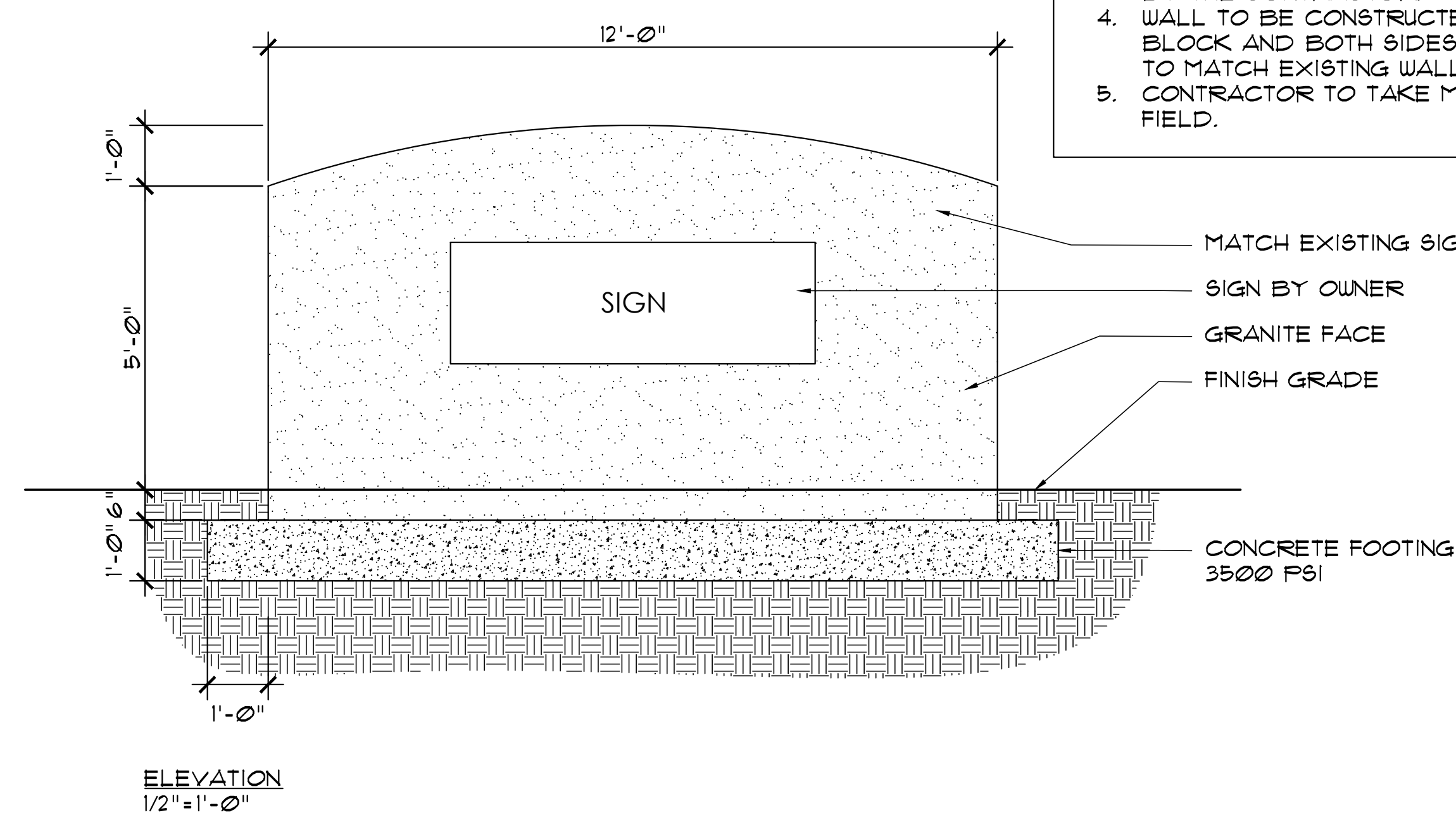


SECTION  
SCALE: 3/32"=1'-0"

1 RENOVATION OF EXISTING PARK SHELTER

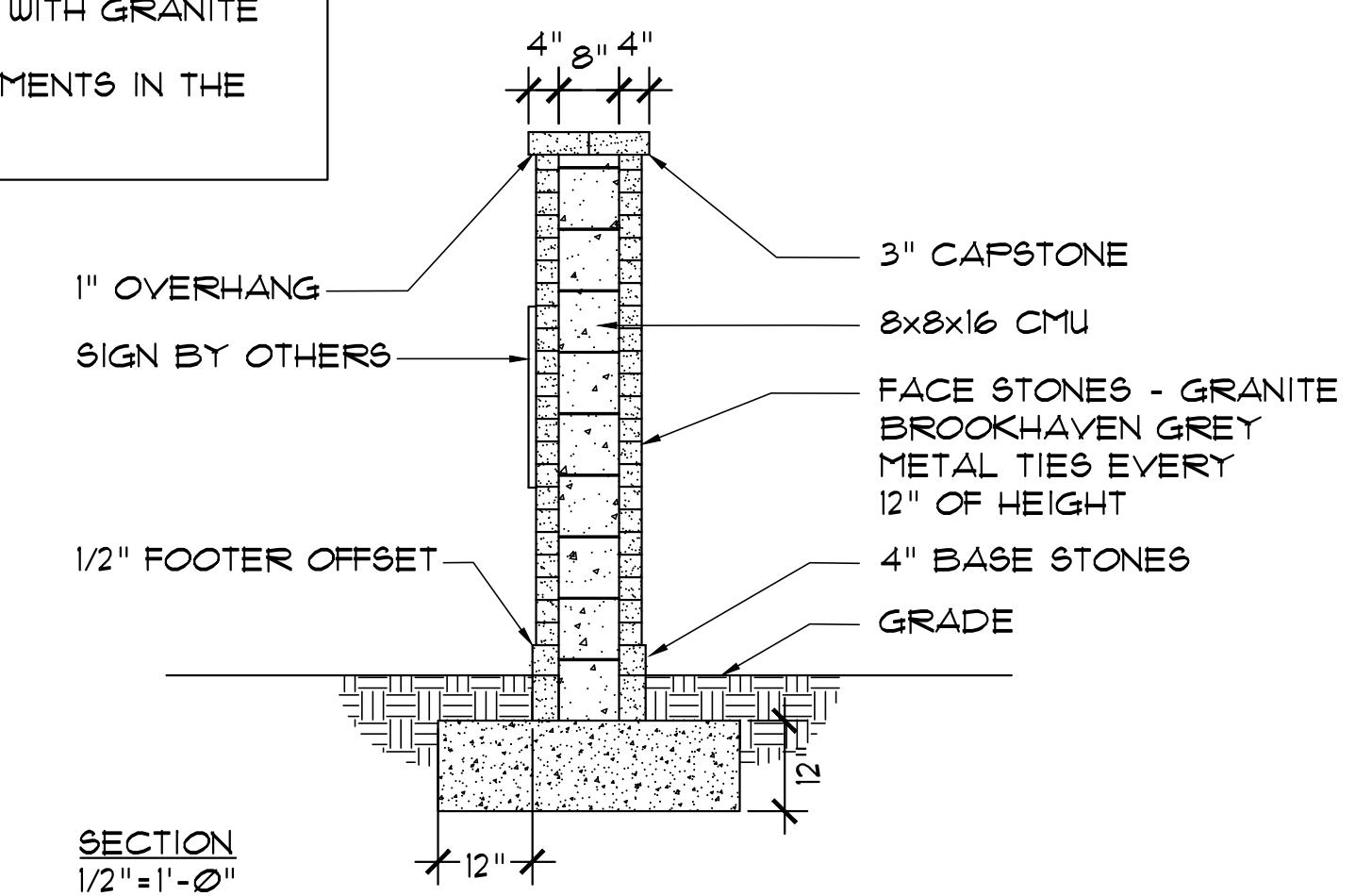
- NOTES:
- 1. CONTRACTOR TO BUILD A NEW ENTRANCE WALL TO RECEIVE A SIGN TO MATCH THE EXISTING SIGN.
  - 2. PLACE SIGN WALL AS INDICATED AT THE MAIN ENTRANCE.
  - 3. CITY WILL PROVIDE THE SIGN TO BE MOUNTED BY THE CONTRACTOR.
  - 4. WALL TO BE CONSTRUCTED WITH CONCRETE BLOCK AND BOTH SIDES FACED WITH GRANITE TO MATCH EXISTING WALL.
  - 5. CONTRACTOR TO TAKE MEASUREMENTS IN THE FIELD.

NOTE:  
MATCH GRANITE ON THE RETAINING WALL AT THE TENNIS COURTS. SEE EXISTING SIGN WALL.

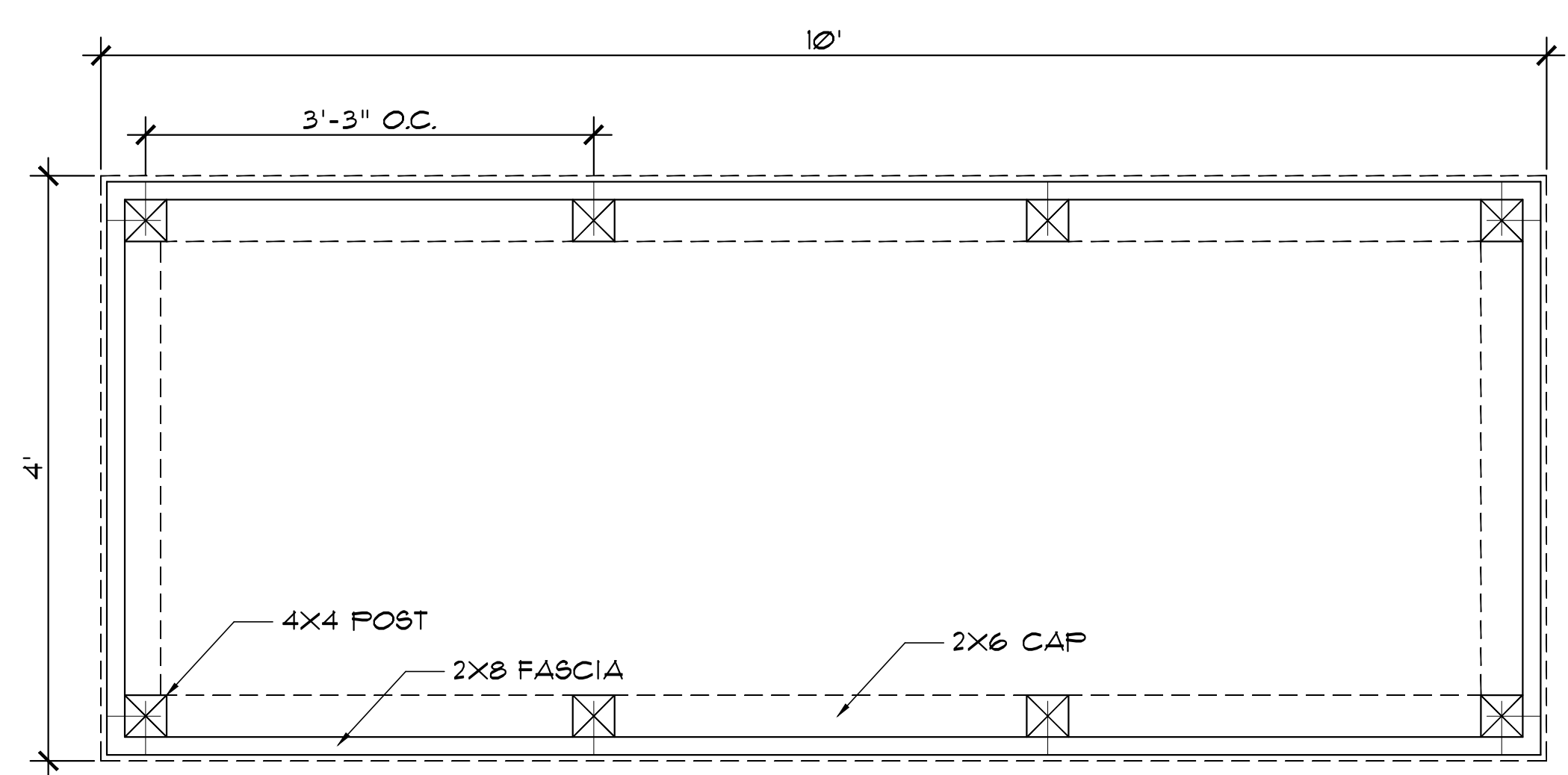


ELEVATION  
1/2"=1'-0"

3 ENTRANCE SIGN AND WALL  
1/2"=1'-0"



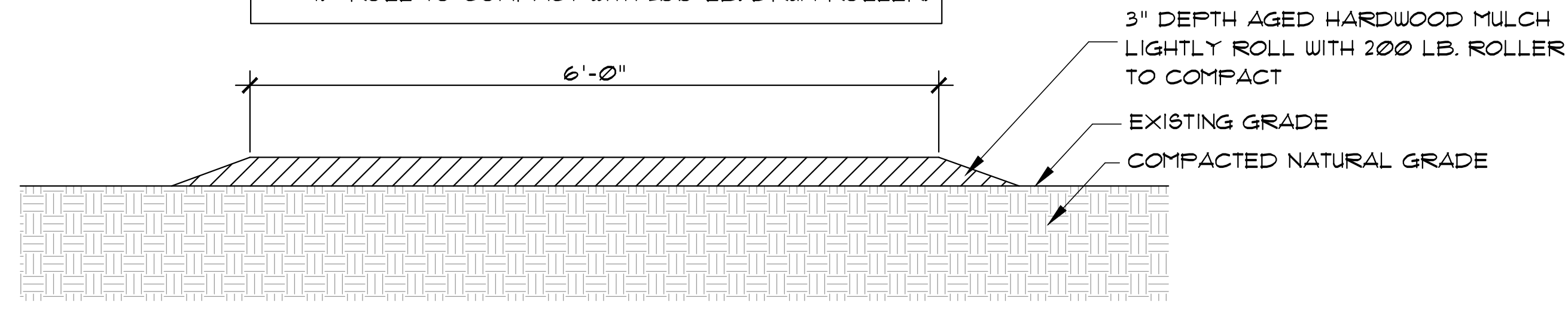
SECTION  
1/2"=1'-0"



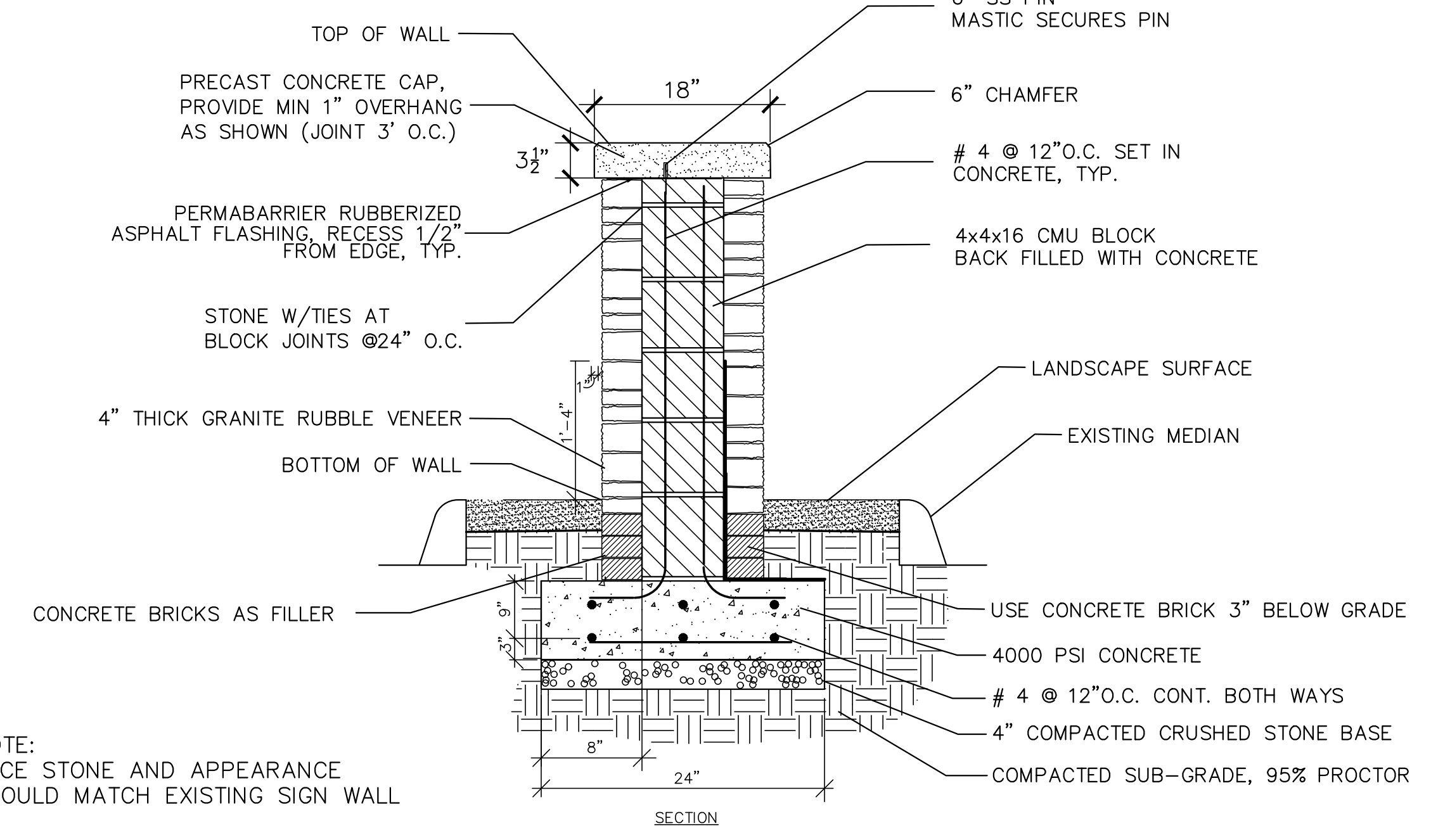
PLAN

4 GARDEN BOX  
1"=1'-0"

- NOTES:
- 1. STAKE TRAIL.
  - 2. HAND GRADE TO SMOOTH AND FILL DIPS.
  - 3. SPREAD 3" OF MULCH.
  - 4. ROLL TO COMPACT WITH 200 LB. DRUM ROLLER.



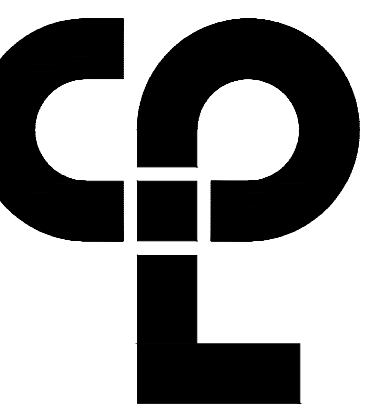
5 MULCH TRAIL-TYPICAL  
1"=1'-0"



SECTION  
SIGN WALL - TYP.  
SCALE: NTS

2

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Date last accessed: 3/27/2023 3:23 PM  
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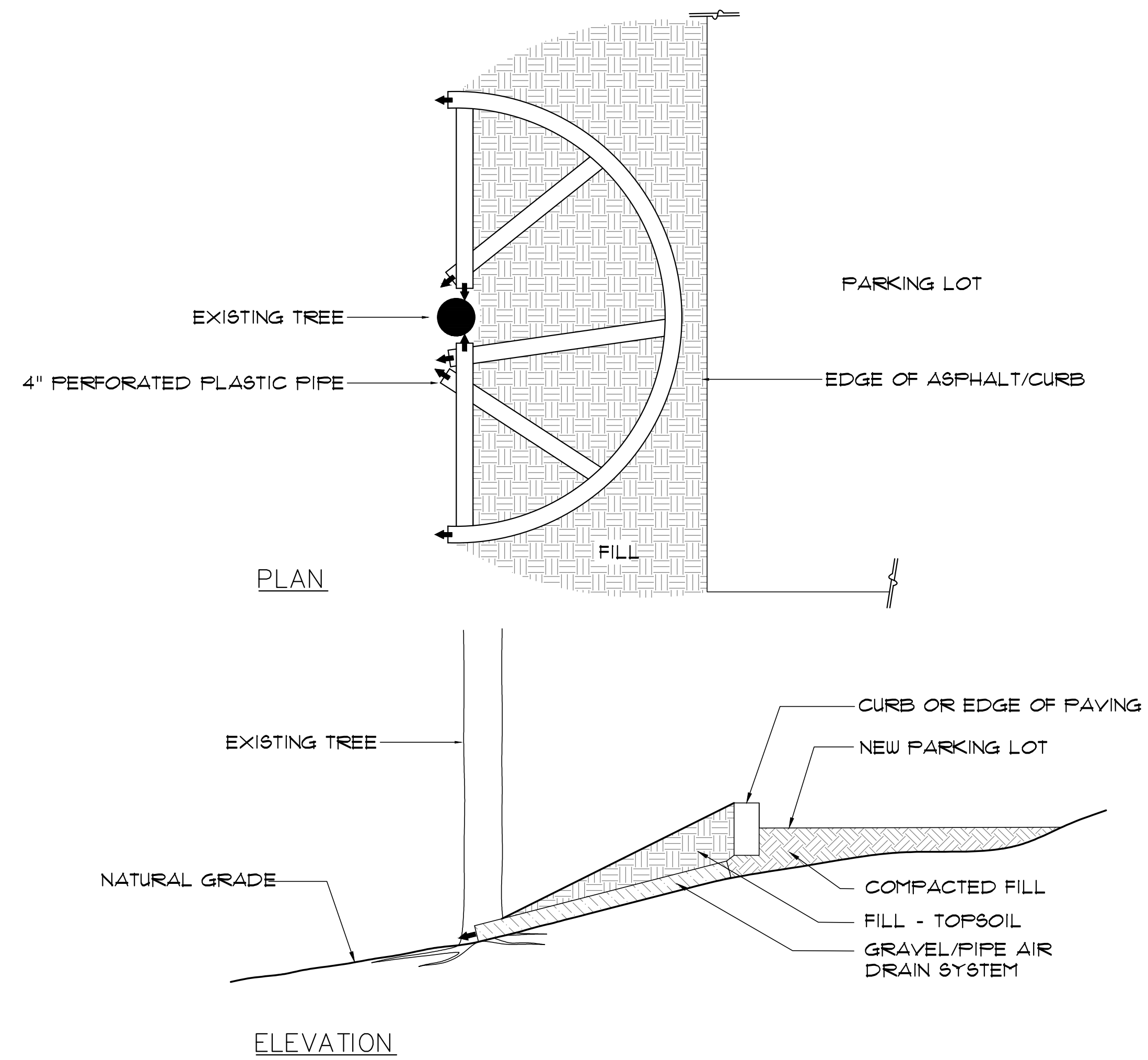
PROJECT INFORMATION

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

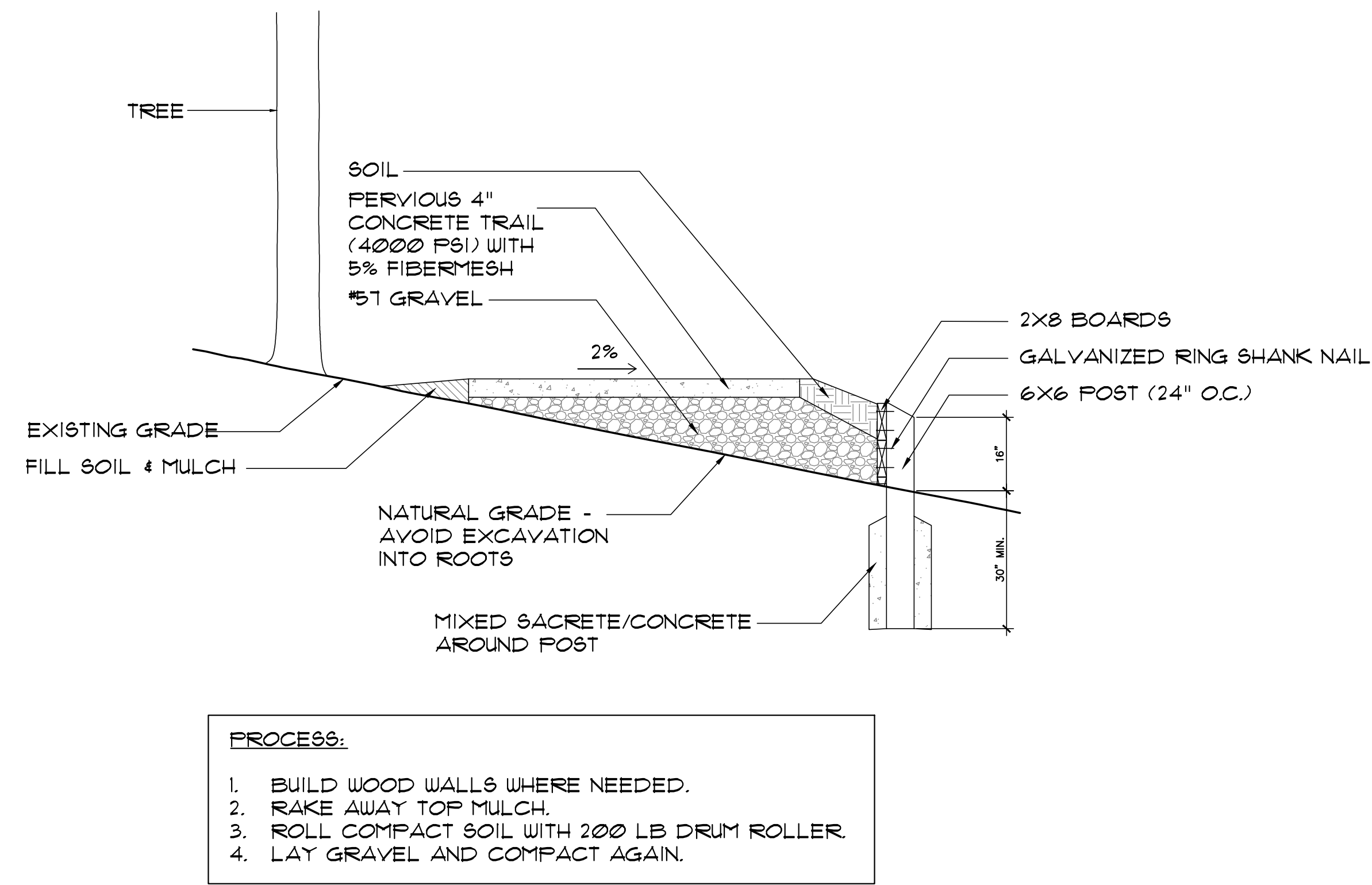
REVISION SCHEDULE

REV.	DATE	DESCRIPTION
1	07-14-2023	LDP CFI COMMENT #1
2	07-18-2023	BUILDING PERMIT
3	09-29-2023	LDP CFI COMMENT #2
4	09-27-2023	LDP CFI COMMENT #3



**PROCESS:**

1. LAY 4" PERFORATED PLASTIC PIPE WITH SOCK ON SURFACE IN AREA TO BE FILLED. DAYLIGHT END OF PIPE.
2. LAY 4" OF WASHED #51 STONE TO COVER AREA OF ROOTS AND PIPE.
3. LAY FILTER FABRIC OVER THE GRAVEL BED.
4. PLACE FILL MATERIAL OVER FILTER FABRIC AND HAND GRADE.
5. MULCH OR GRASS SURFACE OVER TOPSOIL.



**PROCESS:**

1. BUILD WOOD WALLS WHERE NEEDED.
2. RAKE AWAY TOP MULCH.
3. ROLL COMPACT SOIL WITH 200 LB DRUM ROLLER.
4. LAY GRAVEL AND COMPACT AGAIN.

1 TREE ROOTS PROTECTION – TYP. NTS

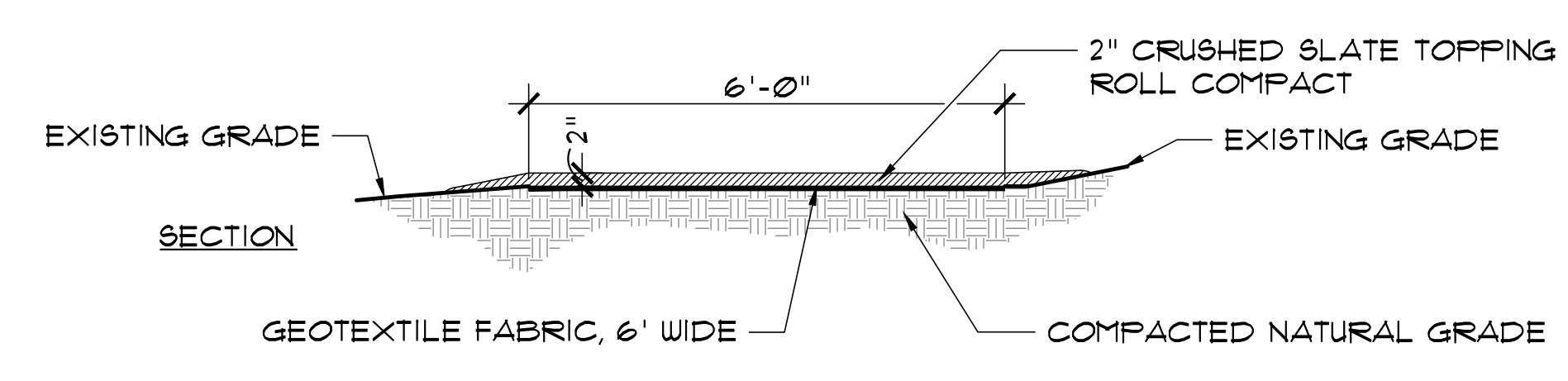
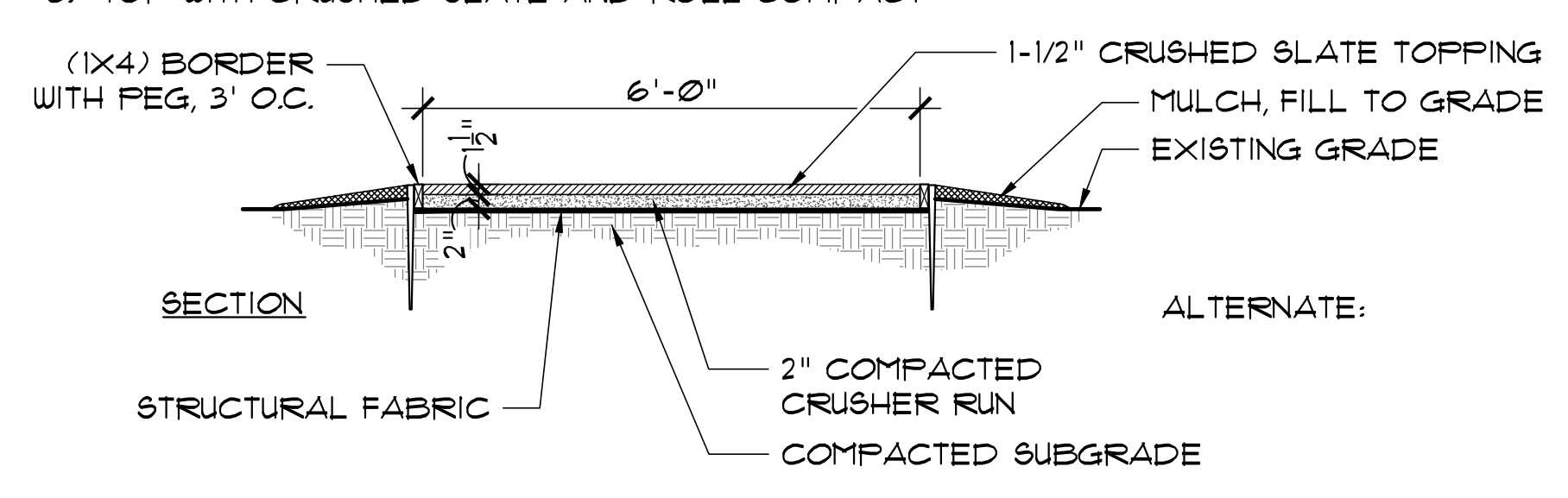
2 PERVIOUS 6" CONCRETE TRAIL IN THE WOODS – TYP. 1/2" = 1'-0"

**CONSTRUCTION PROCESS NOTES:**

1. STAKE TRAIL
2. HAND RAKE AWAY SURFACE MULCH
3. SMOOTH NATURAL GRADE
4. ROLL COMPACT SURFACE
5. INSTALL BORDERS
6. LAY STRUCTURAL FABRIC
7. LAY 2" OF CRUSHER RUN, COMPACT
8. TOP WITH CRUSHED SLATE AND ROLL COMPACT

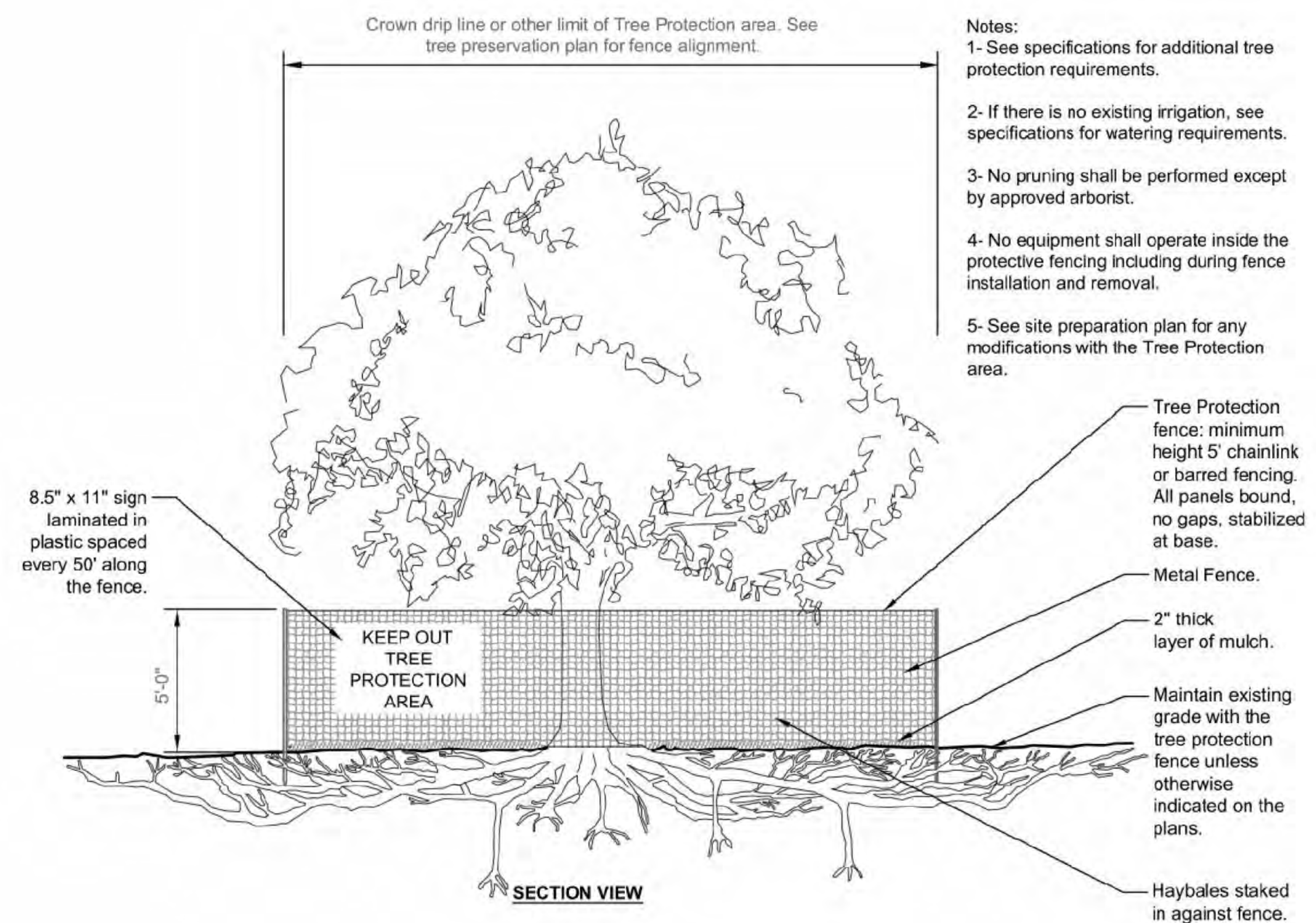
**PROCESS NOTES:**

1. RAKE OFF LEAVES AND SURFACE DEBRIS
2. ROLL COMPACT NATURAL GRADE
3. SPREAD THIN LAYER OF SAND CLAY TO FILL GAPS
4. SPREAD TEXTILE FABRIC
5. TOP WITH 2" LAYER OF CRUSHED SLATE AND ROLL COMPACT



3 6" WIDE CRUSHED SLATE TRAIL SCALE: 1/2" = 1'-0"

4 SLATE TRAIL IN WOODS SCALE: 1/2" = 1'-0"

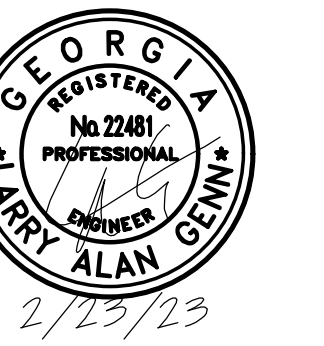


5 TREE PROTECTION FENCE NTS

**VEVOR Driveway Fabric, 13x108 ft Commercial Grade Driveway Fabric, 600 Pounds Grab Tensile Strength Geotextile Fabric Driveway, Underlayment Fabric Landscape Fabric Stabilization Underlayment**

- Large Geotextile Fabric: The geotextile driveway fabric has 1415 Sq. Ft coverage area, length: 108 ft/33 m, width: 13 ft/4 m. According to your requirements, it can be cut to meet various needs such as driveway stabilization, gardening, agriculture, and drainage.
- Sturdy Woven PP Material: The ground fabric is made from thick woven PP material, sturdy, tear-proof, and corrosion-proof, which can serve you for a long time.
- 600 LBS Tensile Strength: The underlayment fabric is high in strength and stretchable, ensuring a large weight capacity. You can lay gravel, stones, and big rocks on it to increase the stability and flatness of the road and prolong its service life.
- Great Water Permeability: The garden fabric is highly permeable and breathable, allowing water to flow quickly without worries about water pooling. It is ideal for french drains, garden planting, and landscaping.
- Wide Applications: The geotextile fabric is perfect for construction projects, such as road stabilization, riprap, retaining walls, animal stables, patio landscaping, etc. Keep your projects organized and control your space effortlessly.

6 GEOTEXTILE FABRIC SCALE: NTS

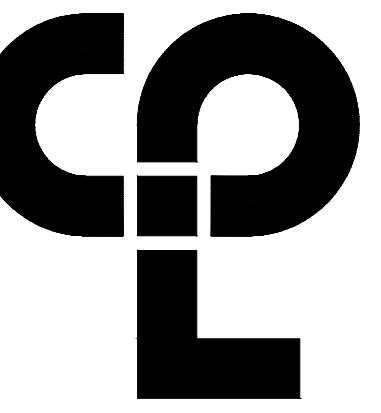


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**SHEET INFORMATION**

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Date: 12/01/2022  
Checked By: MESS  
Designed By: LAG  
Site Details 19

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Plotted By: Catherine Newberry



CPL | Architecture Engineering Planning  
3011 SUITON GATE DR. SUITE 130  
SUWANEE, GA 30024  
CPLteam.com

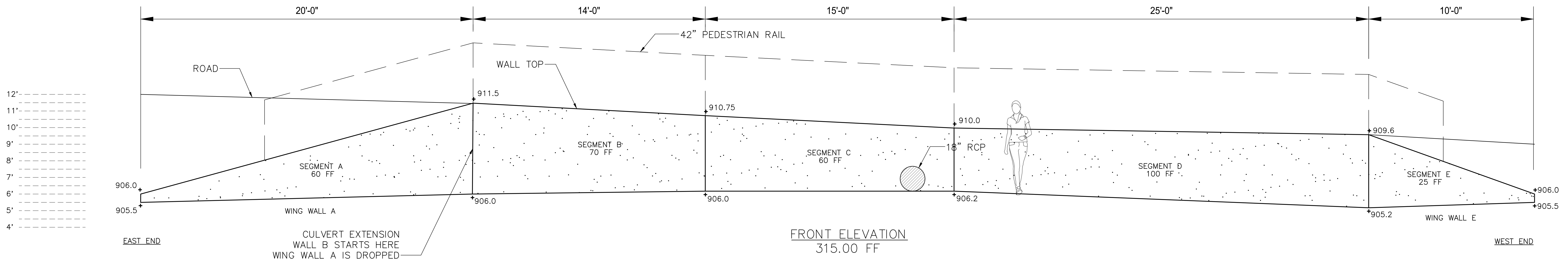
**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK

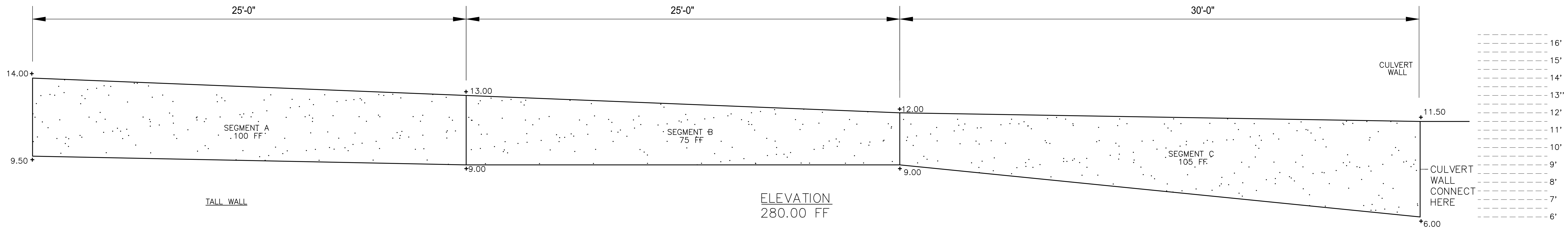
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BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

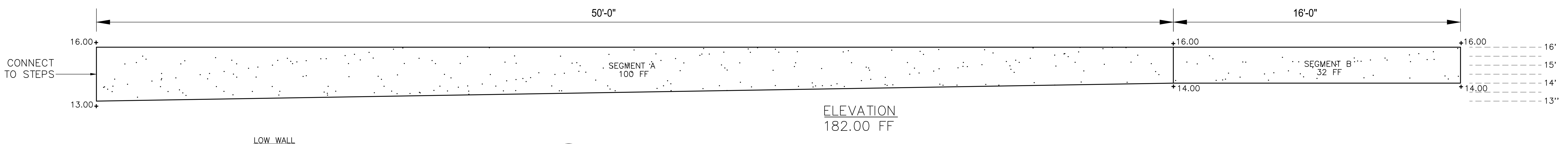
NO.	DATE	DESCRIPTION
1	01-24-2023	LDP CITY COMMENT #1
2	01-31-2023	BUILDING PERMIT
3	02-02-2023	LDP CITY COMMENT #2
4	03-27-2023	LDP CITY COMMENT #3



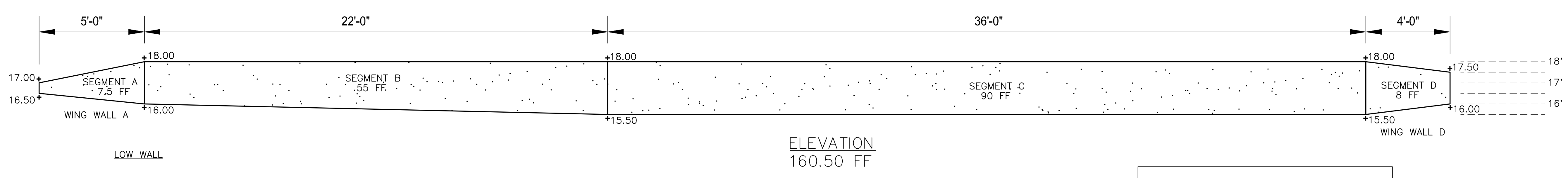
1 SEGMENTED BLOCK CULVERT – D  
SCALE: 3/8"=1'-0"



2 CULVERT EXTENSION WALL – C  
SCALE: 3/8"=1'-0"



3 WALL AT STEPS – B  
SCALE: 3/8"=1'-0"



4 SEGMENTED WALL PARKING – A  
SCALE: 3/8"=1'-0"

SEE SEGMENTED WALL DETAILS – SHEET C608/C609

- NOTES:**
- CONTRACTOR SHALL STAKE LOCATION OF WALLS IN THE FIELD TO DETERMINE DIMENSIONS.
  - SEGMENTED WALL CONTRACTOR SHALL PREPARE SHOP DRAWING FOR EACH WALL SEPARATELY.
  - SHOP DRAWING SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA.
  - GENERAL CONTRACTOR SHALL OBTAIN BUILDING PERMITS FOR ALL WALLS ABOVE 4' IN HEIGHT.

- NOTES:**
- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
  - ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
  - FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BE BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.
- ENSURE PROPOSED RETAINING WALLS DO NOT INTERFERE WITH THE REQUIRED WIDTH OF EGRESS TO INCLUDE, BUT NOT LIMITED TO, SIDEWALKS, STAIRS, RAMPS, AND THE LIKE. RETAINING WALLS SHALL NOT INTERFERE WITH REQUIRED WIDTH OF FIRE APPROXUS (ACCESS ROADS).
- ALL WALLS OVER 4' HT. MUST HAVE A BUILDING PERMIT FROM THE CITY OF BROOKHAVEN.



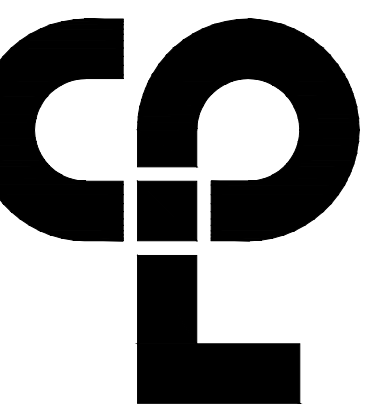
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Date: 12.01.2022  
Checked By: LAC  
Created By: MJS  
Drawing Title: SITE DETAILS 20

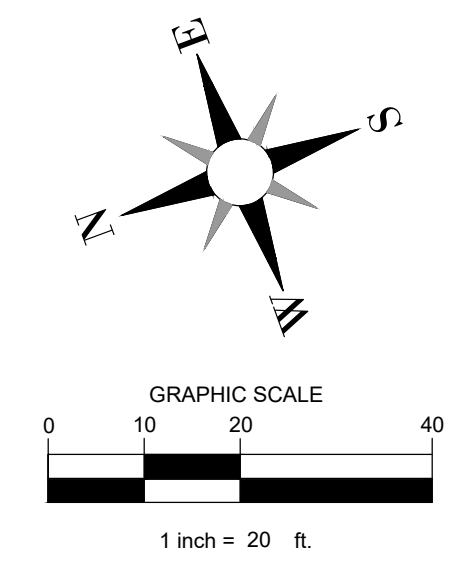
C619

SHEET 25 OF 25 PLAN 04/28/2023  
Permit # LDP22-00019

Sheet Size: 30x42  
Drawing Name: S:\Projects\Brookhaven\_C\Brookhaven\BRIARWOOD PARK\BRIARWOOD PARK\_SiteDetails.dwg  
Date last accessed: 3/27/2023 3:23 PM  
Plotted By: Catherine Newberry  
Date last plotted: 3/27/2023 4:50 PM



CP| Architecture Engineering Planning  
301 SUTTON GATE DR. SUITE 130  
SUWANEE, GA 30024  
CP|team.com



1 ALTERNATE SEGMENTAL WALL LOCATIONS – A & B  
SCALE: 1"=20'

**NOTES:**

- INTERNATIONAL BUILDING CODE (IBC): ALL SHOP DRAWINGS SHALL BE IN COMPLIANCE WITH THE APPROPRIATE SECTIONS OF THE IBC RELATIVE TO THE ELEMENTS BEING DESIGNED. THIS COMPLIANCE SHALL BE VERIFIED BY AN ENGINEER OR ARCHITECT LICENSED IN THE STATE OF GEORGIA.
- ENGINEER OR ARCHITECT PREPARING SHOP DRAWINGS SHALL REFERENCE SECTION 01340 SHOP DRAWINGS IN THE PROJECT MANUAL FOR FURTHER INSTRUCTIONS.
- FROST LINE: ALL FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED TO BELOW THE FROST LINE 12" DEEP. THEREFORE, THE BOTTOM OF ALL FOOTINGS SHALL BE AT LEAST 12" BELOW THE FINISHED GRADE.

ENSURE PROPOSED RETAINING WALL(S) DO NOT INTERFERE WITH THE REQUIRED WIDTH OF EGRESS TO INCLUDE, BUT NOT LIMITED TO, SIDEWALKS, STAIRS, RAMPS, AND THE LIKE. RETAINING WALL(S) SHALL NOT INTERFERE WITH REQUIRED WIDTH OF FIRE APPARATUS ACCESS ROAD(S).

ALL WALLS OVER 4' HT. MUST HAVE A BUILDING PERMIT FROM THE CITY OF BROOKHAVEN.

SEE SEGMENTED WALL ELEVATIONS – SHEET C619  
SEE SEGMENTED WALL DETAILS – SHEET C608/C609



2 ALTERNATE SEGMENTAL WALL LOCATION C  
SCALE: 1"=20'

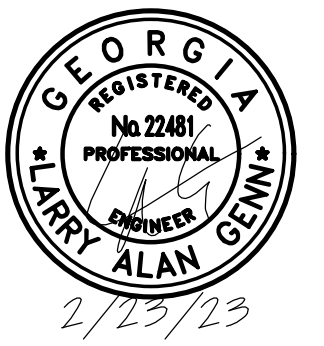
SURVEY  
TERRAMARK LAND SURVEYING, INC.  
1396 BELLS FERRY ROAD  
MARIETTA, GEORGIA 30066  
PHONE NO. (770) 421-1927  
FAX NO. (770) 421-0552  
WWW.TERRAMARK.COM  
C. O. A.# LSF000810

**PROJECT INFORMATION**

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK  
Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

1	01-24-2023	LDP CIP COMMENT #1
2	02-03-2023	BUILDING PERMIT
3	02-20-2023	LDP CIP COMMENT #2
4	03-27-2023	LDP CIP COMMENT #3



IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ASSIST IN ANY MANNER IN THE DESIGN AND CONSTRUCTION OF A PROJECT WITHOUT THE SIGNATURE AND SEAL OF SUCH A PERSON AND A PROPER DESCRIPTION OF THE ACTIVATION.

**SHEET INFORMATION**

Sheet: 12.01.2022  
Scale: 1"=30'  
Checked By: MJS  
Drawing Title: ALTERNATE WALL LOCATIONS



Sheet Size: 30x42  
 Drawing Name: S:\Project\Brookhaven\_CV\Briarwood Park\A Design\06 CAD\AutoCAD\BRIARWOOD PARK\_SiteDetails.dwg  
 Date last accessed: 3/27/2023 3:23 PM  
 Date last plotted: 3/27/2023 4:59 PM  
 Plotted By: Catherine Newberry

Table with 2 columns: Checklist # and Description. Includes sections for GSWCC Level II Design Professional, Inspection Revealed Discrepancies, and Design Professional Certification.

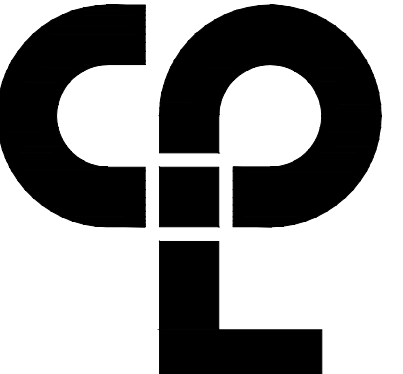
CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED.

CHECKLIST # 23 THE TMDL PLAN FOR THE NORTH FORK PEACHTREE CREEK WATERSHED HAS BEEN CREATED. THE CITY OF BROOKHAVEN HAS PREPARED AND IMPLEMENTED THE NORTH FORK PEACHTREE CREEK WATERSHED IMPROVEMENT PLAN WITH THE GOAL OF REDUCING OCCURRENCE FLOODING.

(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE, (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY, WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. (D) AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX B OF THE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT THE DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

THE TEMPORARY AND PERMANENT STRUCTURAL BMPs ARE SHOWN ON PLANS. TO PROVIDE EROSION CONTROL AT POINT OF CONCENTRATED FLOW AND HIGH FLOW VELOCITIES, ROCK FILTER DAM AND STONE DUMPED RIP RAP SHALL BE USED. SEDIMENT BARRIER MUST BE INSTALLED ALONG CONTOURS WITH ENDS POINTING UPHILL EXCEPT IN WATERWAYS OR AREAS OF CONCENTRATED FLOW. TEMPORARY SEDIMENT BARRIER MUST BE PLACED AROUND STORM DRAIN INLETS THAT RECEIVE RUNOFF FROM DISTURB AREAS EXCEPT WHERE VEHICULAR TRAFFIC WILL BE AFFECTED.



City of Brookhaven Planning 3011 SUTTON GATE DR. SUITE 130 DUNWOODE, GA 30024

PROJECT INFORMATION 1591.00 Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

2235 BRIARWOOD WAY NE BROOKHAVEN, GA 30319

EROSION AND SEDIMENTATION CONTROL NOTES I

REVISION SCHEDULE 1. 01-04-2023 LDP CFI COMMENT #1

EROSION CONTROL MEASURES MUST BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.

CHECKLIST # 37 REFERENCE ALL PLAN SHEETS.

CHECKLIST # 38 REFERENCE ALL PLAN SHEETS.

CHECKLIST # 39 NO ALTERNATIVE BMPs WILL BE USED.

CHECKLIST # 40 NO ALTERNATIVE BMPs WILL BE USED.

CHECKLIST # 41 SEE PLAN SHEETS FOR BUFFERS.

CHECKLIST # 42 ALL WETLANDS ARE DELINEATED ON THE PLAN SHEETS.

CHECKLIST # 43 DRAINAGE BASINS AREA DELINEATED ON PLAN SHEETS.

CHECKLIST # 44 SEE HYDROLOGY STUDY.

CHECKLIST # 45 PRE-DEVELOPED: 92.10 CFS POST-DEVELOPED: 73.16 CFS

CHECKLIST # 46 SEE ST CHART ON SHEET 701 WHICH HAS THE STORM DRAIN OUTLET PROTECTION LOCATIONS, DISCHARGES & VELOCITIES.

CHECKLIST # 47 SEE SOIL SERIES CHART SHEET 701 AND DELINEATED ON EACH PLAN SHEET.

CHECKLIST # 48 SEE EACH PLAN SHEET FOR LIMITS OF DISTURBANCE.

CHECKLIST # 49 SEDIMENT STORAGE WILL BE ACCOMPLISHED THROUGH THE USE OF EXCAVATED INLET TRAPS, DOUBLE ROW SILT FENCE, AND TEMPORARY SEDIMENT TRAPS, RETROFITS. ALL STORAGE BMPs HAVE BEEN DESIGNED TO PROVIDE 67 CUBIC YARDS PER AREA DRAINED.

CHECKLIST # 50 REFERENCE ALL PLAN SHEETS

CHECKLIST # 51 REFERENCE DETAIL SHEETS

CHECKLIST # 52 REFERENCE ALL PLAN SHEETS

24-HR EMERGENCY CONTACT: LEE CROY CITY OF BROOKHAVEN 4362 PEACHTREE ROAD BROOKHAVEN, GA 30319 CELL: (678) 576 9846





CITY OF BROOKHAVEN EROSION CONTROL NOTES:

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE. AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
- ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

EROSION CONTROL NOTES:

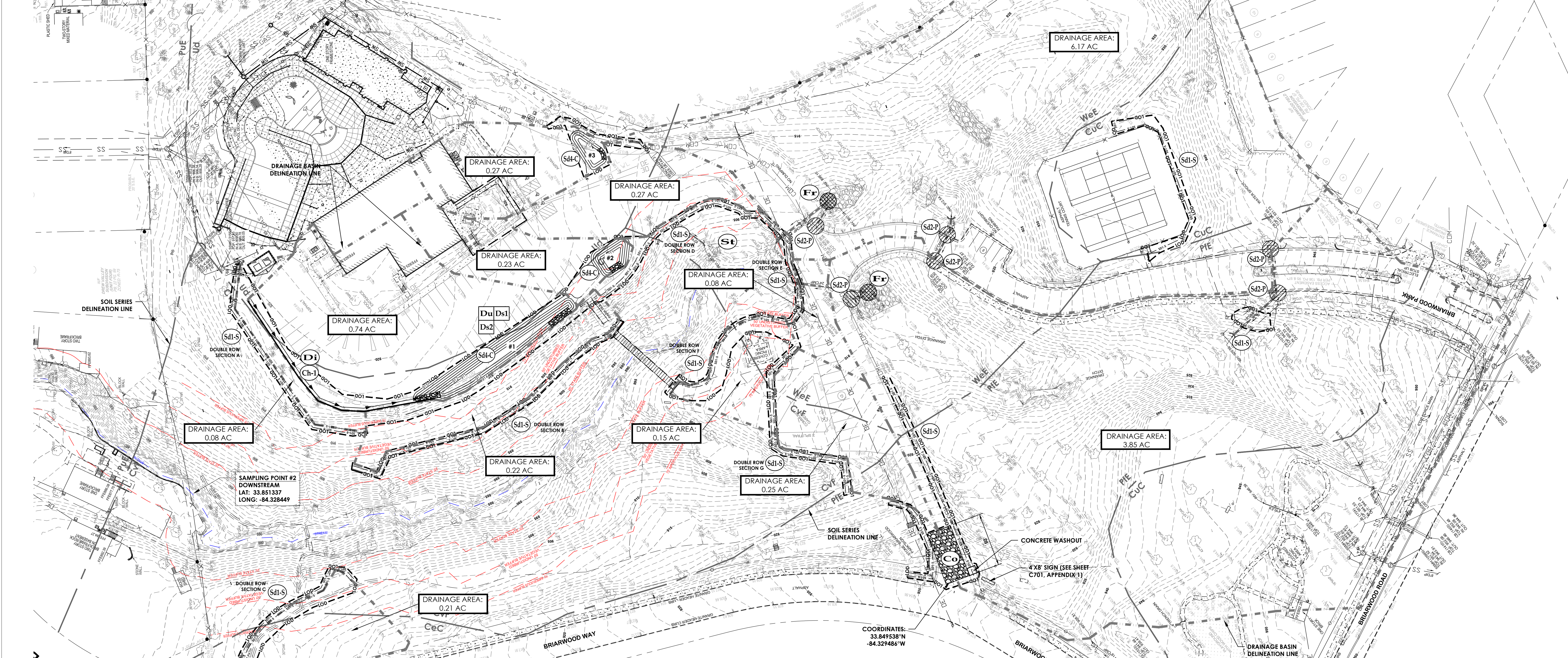
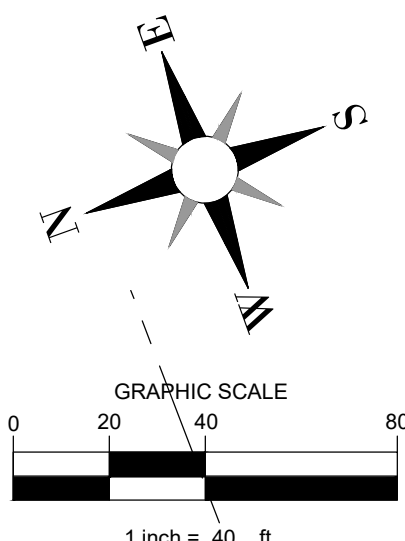
- DISTURBED AREA: 0.87 ACRE
- THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NORTH FORK PEACHTREE CREEK (FECAL COLIFORM, BIO-P, BIO-M).
- THIS PROJECT DOES NOT REQUIRE A BUFFER VARIANCE.
- CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
- MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
- EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
- AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND/OR PERMANENT GRASSING SHALL BE HYDROCHECKED.
- SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCH ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface soil and movement of dust on construction site, roadways and similar sites.



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 Date last modified: 3/27/2023 12:46 PM  
 Date last accessed: 3/27/2023 2:01 PM  
 Plotted By: Catherine Newberry



**PROJECT INFORMATION**  
 Project Number: 15991.00  
 Client Name: CITY OF BROOKHAVEN  
 Project Name: BRIARWOOD PARK  
 Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**  
 1 01-14-2023 LDP CITY COMMENT #1  
 2 01-19-2023 BUILDING PERMIT  
 3 02-09-2023 LDP CITY COMMENT #2  
 4 03-27-2023 LDP CITY COMMENT #3



**Sd1-S**  
 SEDIMENT STORAGE NOTE:  
 DUE TO THE LINEAR NATURE OF A PORTION OF THIS PROJECT, TRADITIONAL SEDIMENT STORAGE BMPs ARE NOT FEASIBLE CERTAIN AREAS. AS AN EQUIVALENT WHERE RUNOFF BYPASSES Sd4 BMPs, SEDIMENT WILL BE STORED ALONG THE LINEAR SILT FENCE. THE SEDIMENT BARRIER WILL BE INSTALLED JUST OUTSIDE THE GRADING LIMITS. THE SILT FENCE WILL SERVE AS SEDIMENT STORAGE UNTIL PROJECT COMPLETION. SEDIMENT MUST BE REMOVED ONCE IT REACHES THE ORIGINAL HEIGHT OF THE BARRIER (14").

**SD4 CALCULATIONS:**  
**SD4-C #2 (Sd4-C)**  
 REQUIRED: 0.23 AC @ 67 CU.YD. PER DISTURBED ACRE = 16 CY  
 PROVIDED: 22 CU.YD. = @ 913.00

**DIVERSION CALCULATIONS:**  
**Di**  
 CROD (HE-39): 40-74  
 Q = 2.48 CFS  
 V = 2.53 FPS  
 DEPTH = 2 FT  
 DEPTH OF FLOW = 0.15 FT  
 BOTTOM WIDTH = 2 FT  
 SIDE SLOPE = 3:1  
 \*CHANNEL SHALL BE LINED WITH EROSION CONTROL BLANKET WITH 5 FT WIDE RIP RAP CHANNEL INTO SEDIMENT BASIN AT END OF DIVERSION.

**SD4 CALCULATIONS:**  
**SD4-C #1 (Sd4-C)**  
 REQUIRED: 0.74 AC @ 67 CU.YD. PER DISTURBED ACRE = 50 CY  
 PROVIDED: 68 CU.YD. = @ 912.50

**SD4 CALCULATIONS:**  
**SD4-C #3 (Sd4-C)**  
 REQUIRED: 0.27 AC @ 67 CU.YD. PER DISTURBED ACRE = 18 CY  
 PROVIDED: 20 CU.YD. = @ 914.50

**SECTION A**  
 REQUIRED: 0.08 AC, X 67 CU. YD./AC. = 6 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 220 LF X 3.4 SQ. FT. = 748 CU. FT STORAGE. OR 28 CU. YD. STORAGE

**SECTION B**  
 REQUIRED: 0.22 AC, X 67 CU. YD./AC. = 15 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 307 LF X 3.4 SQ. FT. = 1,043 CU. FT STORAGE. OR 39 CU. YD. STORAGE

**SECTION C**  
 REQUIRED: 0.21 AC, X 67 CU. YD./AC. = 14 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 182 LF X 3.4 SQ. FT. = 619 CU. FT STORAGE. OR 23 CU. YD. STORAGE

**SECTION D**  
 REQUIRED: 0.27 AC, X 67 CU. YD./AC. = 18 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 259 LF X 3.4 SQ. FT. = 880 CU. FT STORAGE. OR 33 CU. YD. STORAGE

**SECTION E**  
 REQUIRED: 0.08 AC, X 67 CU. YD./AC. = 6 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 60 LF X 3.4 SQ. FT. = 204 CU. FT STORAGE. OR 7 CU. YD. STORAGE

**SECTION F**  
 REQUIRED: 0.15 AC, X 67 CU. YD./AC. = 10 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 152 LF X 3.4 SQ. FT. = 516 CU. FT STORAGE. OR 19 CU. YD. STORAGE

**SECTION G**  
 REQUIRED: 0.25 AC, X 67 CU. YD./AC. = 17 CU. YD.  
 PROVIDED: BASED ON S1: SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 202 LF X 3.4 SQ. FT. = 687 CU. FT STORAGE. OR 25 CU. YD. STORAGE

**DESIGN PROFESSIONAL INITIAL SITE INSPECTION:**  
 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND ERD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED. DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION  
 INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN SEVEN (7) DAYS

**DATE OF INSPECTION**  
 I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL #  
 INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

**SURVEY**  
 TERRAMARK LAND SURVEYING, INC.  
 1396 BELLS FERRY ROAD  
 MARIETTA, GEORGIA 30066  
 PHONE NO. (770) 421-1927  
 FAX NO. (770) 421-0522  
 WWW.TERRAMARK.COM  
 C. O. A. # LSF000810



**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION  
 LARRY A GENN  
 Level II Certified Design Professional  
 CERTIFICATION NUMBER: 000029487  
 ISSUED: 12/20/2021 EXPIRES: 12/20/2024

**24-HR EMERGENCY CONTACT:**  
 LEE CROY  
 CITY OF BROOKHAVEN  
 4362 PEACHTREE ROAD  
 BROOKHAVEN, GA 30319  
 CELL: (678) 576 9846

**SHEET INFORMATION**  
 Issue: 12/01/2022 Title: 1"=40'  
 Drawn By: MHS Created By: LAG  
 Design File: EROSION AND SEDIMENTATION CONTROL PLAN  
 INITIAL PHASE

**C702**  
 SHEET # PLAN 04/28/2023  
 Permit # LDP22-00019

CITY OF BROOKHAVEN EROSION CONTROL NOTES:

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
- ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

EROSION CONTROL NOTES:

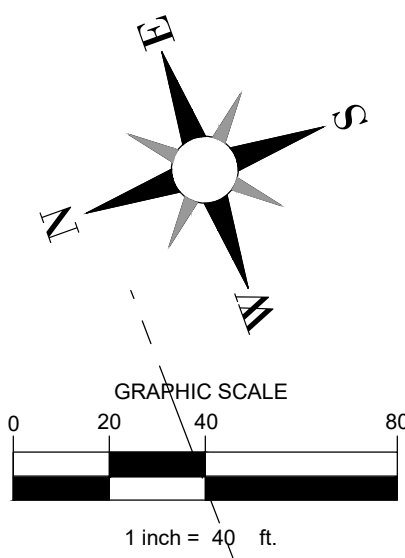
- DISTURBED AREA: 3.82 ACRE
- THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NORTH FORK PEACHTREE CREEK (FPCAL C04P000A, BIO: F, BIO: M).
- THIS PROJECT DOES NOT REQUIRE A BUFFER VARIANCE.
- CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
- MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURE MUST BE REMOVED. ALL PERMANENT AND/OR PERMANENT GRASSING SHALL BE HYDROSEDED.
- SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXITS	[Symbol]	[Symbol]	A crushed stone pad located at the construction site exit to provide a slope for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER	[Symbol]	[Symbol]	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bags of straw or hay, brush, logs and posts, or a silt fence.
Ch	CHANNEL STABILIZATION	[Symbol]	[Symbol]	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Di	DIVERSION	[Symbol]	[Symbol]	An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Sd4	TEMPORARY SEDIMENT TRAP	[Symbol]	[Symbol]	A small temporary pond that traps a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser. The trapping area created by excavating around a storm drain drop inlet, the sediment area will be filled and stabilized on completion of construction activities.
Rt	RETRO FITTING	[Symbol]	[Symbol]	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd2	INLET SEDIMENT TRAP	[Symbol]	[Symbol]	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN	[Symbol]	[Symbol]	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored slowing the bulk of the sediment to drop out.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	[Symbol]	[Symbol]	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion reducing cover.
Ds2	DISTURBED AREA TEMP. SEEDING	[Symbol]	[Symbol]	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Du	DUST CONTROL IN DISTURBED AREAS	[Symbol]	[Symbol]	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION	[Symbol]	[Symbol]	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.



DESIGN PROFESSIONAL INTERMEDIATE SITE INSPECTION:

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN SHALL CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE PHASE.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPO HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE INTERMEDIATE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPs HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

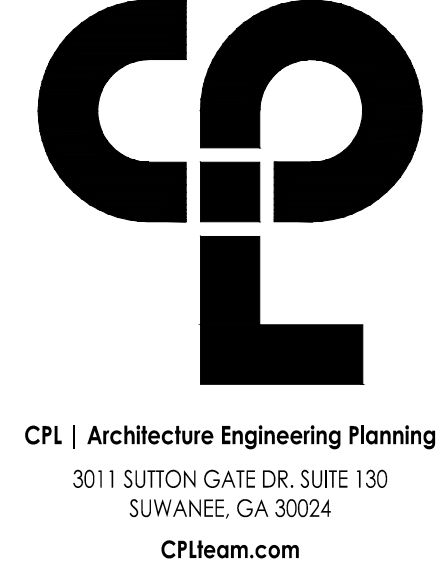
DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION  
INSPECT THE INSTALLATION OF INTERMEDIATE SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs DURING THE GRADING AND DRAINAGE PHASE.  
DATE OF INSPECTION: \_\_\_\_\_

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

PROJECT INFORMATION  
 Project Name: BROOKHAVEN  
 Client: CITY OF BROOKHAVEN  
 Project No: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

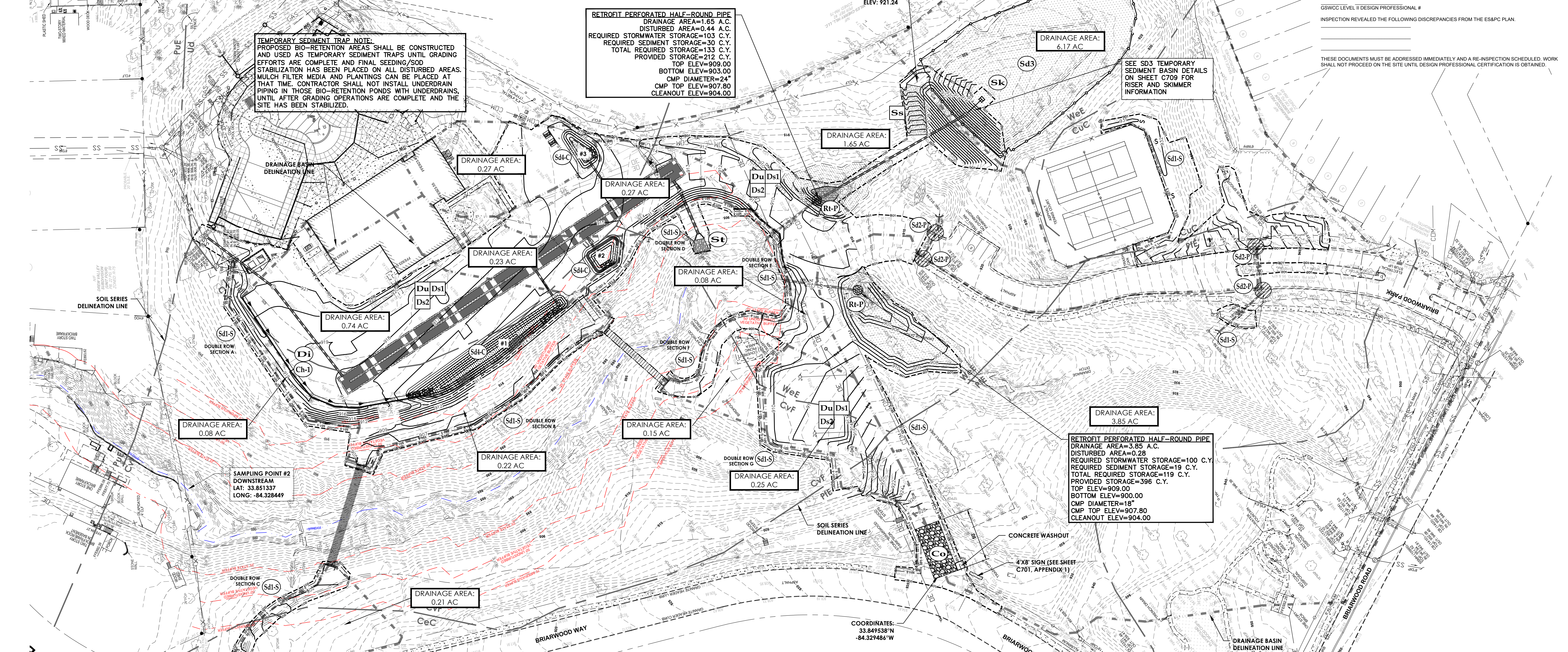
DESIGN PROFESSIONAL # 15991.00  
 INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	01-24-2023	LDP CITY COMMENT #1
2	01-25-2023	BALDWIN PERMIT
3	02-03-2023	LDP CITY COMMENT #2
4	02-07-2023	LDP CITY COMMENT #3



**TEMPORARY SEDIMENT TRAP NOTE:**  
 PROPOSED BIO-RETENTION AREAS SHALL BE CONSTRUCTED AND USED AS TEMPORARY SEDIMENT TRAPS UNTIL GRADING EFFORTS ARE COMPLETE AND FINAL SEEDING/SOD STABILIZATION HAS BEEN PLACED ON ALL DISTURBED AREAS. MULCH FILTER MEDIA AND PLANTINGS CAN BE PLACED AT THAT TIME. CONTRACTOR SHALL NOT INSTALL UNDERDRAIN PIPING IN THOSE BIO-RETENTION PONDS WITH UNDERDRAINS, UNTIL AFTER GRADING OPERATIONS ARE COMPLETE AND THE SITE HAS BEEN STABILIZED.

**RETROFIT PERFORATED HALF-ROUND PIPE**  
 DRAINAGE AREA=1.65 A.C.  
 DISTURBED AREA=0.44 A.C.  
 REQUIRED STORMWATER STORAGE=103 C.Y.  
 REQUIRED SEDIMENT STORAGE=30 C.Y.  
 TOTAL REQUIRED STORAGE=133 C.Y.  
 PROVIDED STORAGE=212 C.Y.  
 TOP ELEV=909.00  
 BOTTOM ELEV=903.00  
 CMP DIAMETER=24"  
 CMP TOP ELEV=907.80  
 CLEANOUT ELEV=904.00

**SEE SD3 TEMPORARY SEDIMENT BASIN DETAILS ON SHEET C709 FOR RISER AND SKIMMER INFORMATION**

**RETROFIT PERFORATED HALF-ROUND PIPE**  
 DRAINAGE AREA=3.85 A.C.  
 DISTURBED AREA=0.28 A.C.  
 REQUIRED STORMWATER STORAGE=100 C.Y.  
 REQUIRED SEDIMENT STORAGE=19 C.Y.  
 TOTAL REQUIRED STORAGE=119 C.Y.  
 PROVIDED STORAGE=396 C.Y.  
 TOP ELEV=909.00  
 BOTTOM ELEV=900.00  
 CMP DIAMETER=18"  
 CMP TOP ELEV=907.80  
 CLEANOUT ELEV=904.00

**SAMPLING POINT #2**  
 DOWNSTREAM  
 LAT: 33.851337  
 LONG: -84.328449

**SAMPLING POINT #1**  
 UPSTREAM  
 LAT: 33.848520  
 LONG: -84.328015

**SEDIMENT STORAGE NOTE:**  
 DUE TO THE LINEAR NATURE OF A PORTION OF THIS PROJECT, TRADITIONAL SEDIMENT STORAGE BMPs ARE NOT FEASIBLE CERTAIN AREAS. AS AN EQUIVALENT WHERE RUNOFF BYPASSES D24 BMPs, SEDIMENT WILL BE STORED ALONG THE LINEAR SILT FENCE. THE SEDIMENT BARRIER WILL BE INSTALLED JUST OUTSIDE THE GRADING LIMITS. THE SILT FENCE WILL SERVE AS SEDIMENT STORAGE UNTIL PROJECT COMPLETION. SEDIMENT MUST BE REMOVED ONCE IT REACHES THE ORIGINAL HEIGHT OF THE BARRIER [14].

**SECTION A**  
 REQUIRED: 0.08 AC, X 6.7 CU. YD/AC. = 6 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 220 LF X 3.4 SQ. FT. = 748 CU. FT STORAGE, OR 28 CU. YD STORAGE

**SECTION B**  
 REQUIRED: 0.22 AC, X 6.7 CU. YD/AC. = 15 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 307 LF X 3.4 SQ. FT. = 1,043 CU. FT STORAGE, OR 39 CU. YD STORAGE

**SECTION C**  
 REQUIRED: 0.21 AC, X 6.7 CU. YD/AC. = 14 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 182 LF X 3.4 SQ. FT. = 619 CU. FT STORAGE, OR 23 CU. YD STORAGE

**SECTION D**  
 REQUIRED: 0.27 AC, X 6.7 CU. YD/AC. = 18 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 259 LF X 3.4 SQ. FT. = 880 CU. FT STORAGE, OR 33 CU. YD STORAGE

**SECTION E**  
 REQUIRED: 0.08 AC, X 6.7 CU. YD/AC. = 6 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 40 LF X 3.4 SQ. FT. = 204 CU. FT STORAGE, OR 7 CU. YD STORAGE

**SECTION F**  
 REQUIRED: 0.15 AC, X 6.7 CU. YD/AC. = 10 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 152 LF X 3.4 SQ. FT. = 516 CU. FT STORAGE, OR 19 CU. YD STORAGE

**SECTION G**  
 REQUIRED: 0.25 AC, X 6.7 CU. YD/AC. = 17 CU. YD  
 PROVIDED: BASED ON 5:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT, STORAGE PER LF OF SILT FENCE = 3.4 SQ. FT. 202 LF X 3.4 SQ. FT. = 687 CU. FT STORAGE, OR 25 CU. YD STORAGE

**24-HR EMERGENCY CONTACT:**  
 LEE CROY  
 CITY OF BROOKHAVEN  
 4362 PEACHTREE ROAD  
 BROOKHAVEN, GA 30319  
 CELL: (678) 576 9846

**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION  
 Larry A. Genn  
 Level II Certified Design Professional

CERTIFICATION NUMBER: 000029457  
 EXPIRES: 12/31/2025

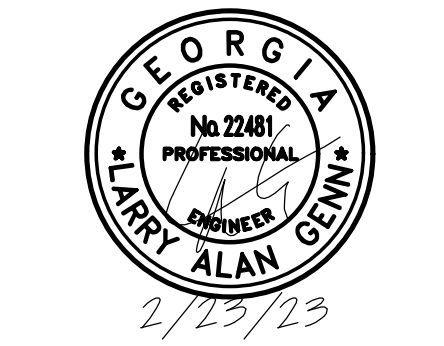
**Ds2 - TEMPORARY SEEDING**

Species	Broadcast Rates	Resource Area*	Planting Dates by Resource Area
	Rate Per Acre	PLS Per 1000 sq ft	J F M A M J J A S O N D
RYE			
in mixture	3 bu. (168 lbs)	3.9 lbs	M-L
alone	1/2 bu. (28 lbs)	0.6 lb	P
LOVEGRASS, WEeping			
in mixture	4 lbs	0.1 lb	M-L
alone	2 lbs	0.05 lb	P

**Fertilizer Requirements**

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./Ac.	30 lbs./Ac.

**NOTE:**  
 1. AGRICULTURAL LIME IS REQUIRED TO BE APPLIED TO GRADED AREAS.  
 2. A SOIL TEST IS REQUIRED TO DETERMINE THE AMOUNT OF LIME AND FERTILIZER NEEDED.  
 3. QUICK ACTING LIME SHOULD BE CONSIDERED DURING SEED GERMINATION PERIOD.  
 4. AGRICULTURAL LIME IS TO BE APPLIED AT A RATE OF 1 TO 2 TONS PER ACRE OR AS DETERMINED BY SOIL TEST.



**SHEET INFORMATION**  
 Title: 12/01/2022  
 Scale: 1"=40'  
 Drawn By: MJS  
 Checked By: LAG  
 Design By: MJS  
 EROSION AND SEDIMENTATION CONTROL PLAN INTERMEDIATE PHASE

**C703**  
 SHEET # PLAN 04/28/2023  
 Permit # LDP22-00019

Sheet Size: 30x42  
 Drawing Name: S:\Projects\Brookhaven\_C\Bldg\Woodrow Park\Design\06\_CADD\EROSION\BROOKHAVEN Park\_Erosion Control Plans.dwg  
 Date last modified: 3/27/2023 12:46 PM  
 Date last plotted: 3/27/2023 2:02 PM  
 Plotted By: Catherine Newberry

**GEORGIA811**  
 Utilities Protection Center, Inc.  
 1-800-282-7411  
 Know what's below. Call before you dig.

**SURVEY**  
 TERRAMARK LAND SURVEYING, INC.  
 1396 BELLS FERRY ROAD  
 MARIETTA, GEORGIA 30066  
 PHONE NO. (770) 421-1927  
 FAX NO. (770) 421-0552  
 WWW.TERRAMARK.COM  
 C. O. A. # LSF008010

**DIVERSION CALCULATIONS: (D1)**  
 C=0.4, I=8.39, A=0.74  
 Q = 2.48 CFS  
 V = 2.53 FPS  
 DEPTH = 2 FT  
 DEPTH OF FLOW = 0.15 FT  
 BOTTOM WIDTH = 2 FT  
 SIDE SLOPE = 3:1  
 \*CHANNEL SHALL BE LINED WITH EROSION CONTROL BLANKET WITH 5 FT WIDE RIP RAP CHANNEL INTO SEDIMENT BASIN AT END OF DIVERSION.

**SD4 CALCULATIONS: (Sd4-C #1)**  
 REQUIRED: 0.74 AC @ 67 CU.YD. PER DISTURBED ACRE = 50 CY  
 PROVIDED: 68 CU.YD. = @ 912.50  
 BOTTOM ELEV.: 911.00  
 SPILLWAY ELEV.: 912.50  
 SPILLWAY WIDTH: 5.00'  
 TOP OF BERM: 914.00  
 CLEAN OUT ELEV.: 911.60  
 \*CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

**SD4 CALCULATIONS: (Sd4-C #2)**  
 REQUIRED: 0.23 AC @ 67 CU.YD. PER DISTURBED ACRE = 16 CY  
 PROVIDED: 22 CU.YD. = @ 913.00  
 BOTTOM ELEV.: 911.00  
 SPILLWAY ELEV.: 913.00  
 SPILLWAY WIDTH: 5.00'  
 TOP OF BERM: 914.00  
 CLEAN OUT ELEV.: 912.00  
 \*CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

**SD4 CALCULATIONS: (Sd4-C #3)**  
 REQUIRED: 0.27 AC @ 67 CU.YD. PER DISTURBED ACRE = 18 CY  
 PROVIDED: 20 CU.YD. = @ 914.50  
 BOTTOM ELEV.: 913.00  
 SPILLWAY ELEV.: 914.50  
 SPILLWAY WIDTH: 5.00'  
 TOP OF BERM: 915.00  
 CLEAN OUT ELEV.: 913.60  
 \*CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

**SD4 CALCULATIONS: (Sd4-C #4)**  
 REQUIRED: 0.23 AC @ 67 CU.YD. PER DISTURBED ACRE = 16 CY  
 PROVIDED: 22 CU.YD. = @ 913.00  
 BOTTOM ELEV.: 911.00  
 SPILLWAY ELEV.: 913.00  
 SPILLWAY WIDTH: 5.00'  
 TOP OF BERM: 914.00  
 CLEAN OUT ELEV.: 912.00  
 \*CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

**SD4 CALCULATIONS: (Sd4-C #5)**  
 REQUIRED: 0.27 AC @ 67 CU.YD. PER DISTURBED ACRE = 18 CY  
 PROVIDED: 20 CU.YD. = @ 914.50  
 BOTTOM ELEV.: 913.00  
 SPILLWAY ELEV.: 914.50  
 SPILLWAY WIDTH: 5.00'  
 TOP OF BERM: 915.00  
 CLEAN OUT ELEV.: 913.60  
 \*CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
- ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

- THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FECAL COLIFORM, BIO F). THIS PROJECT DOES NOT REQUIRE A BUFFER VARIANCE.
- CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
- MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED. ALL TEMPORARY AND/OR PERMANENT GRASSING SHALL BE HYDROSEED.
- SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.

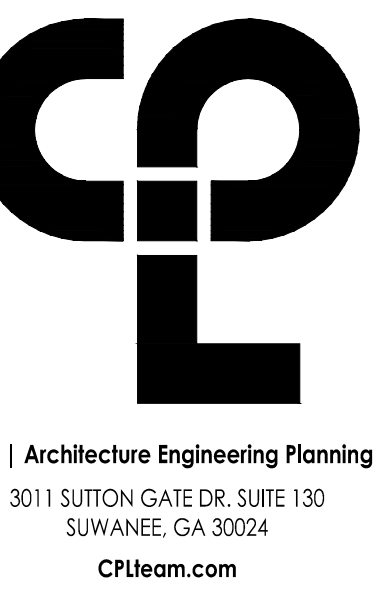
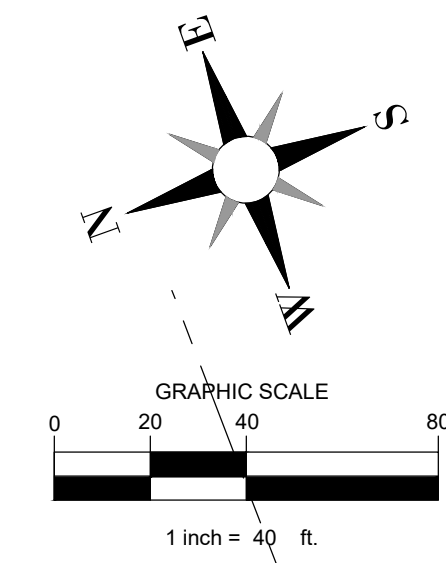
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a base for removing mud from tires thereby protecting public streets.
Sd2	INLET SEDIMENT TRAP			A temporary protective device formed at or ground on inlet to a storm drain to trap sediment.
St	STORMDRAIN SLOPE PROTECTION			A paved or short section of pipe channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (NO-TY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds3	DISTURBED AREA STABILIZATION WITH PERM SEEDING			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

**APPROVED**  
Engineering  
*Timothy Ward*  
Timothy Ward



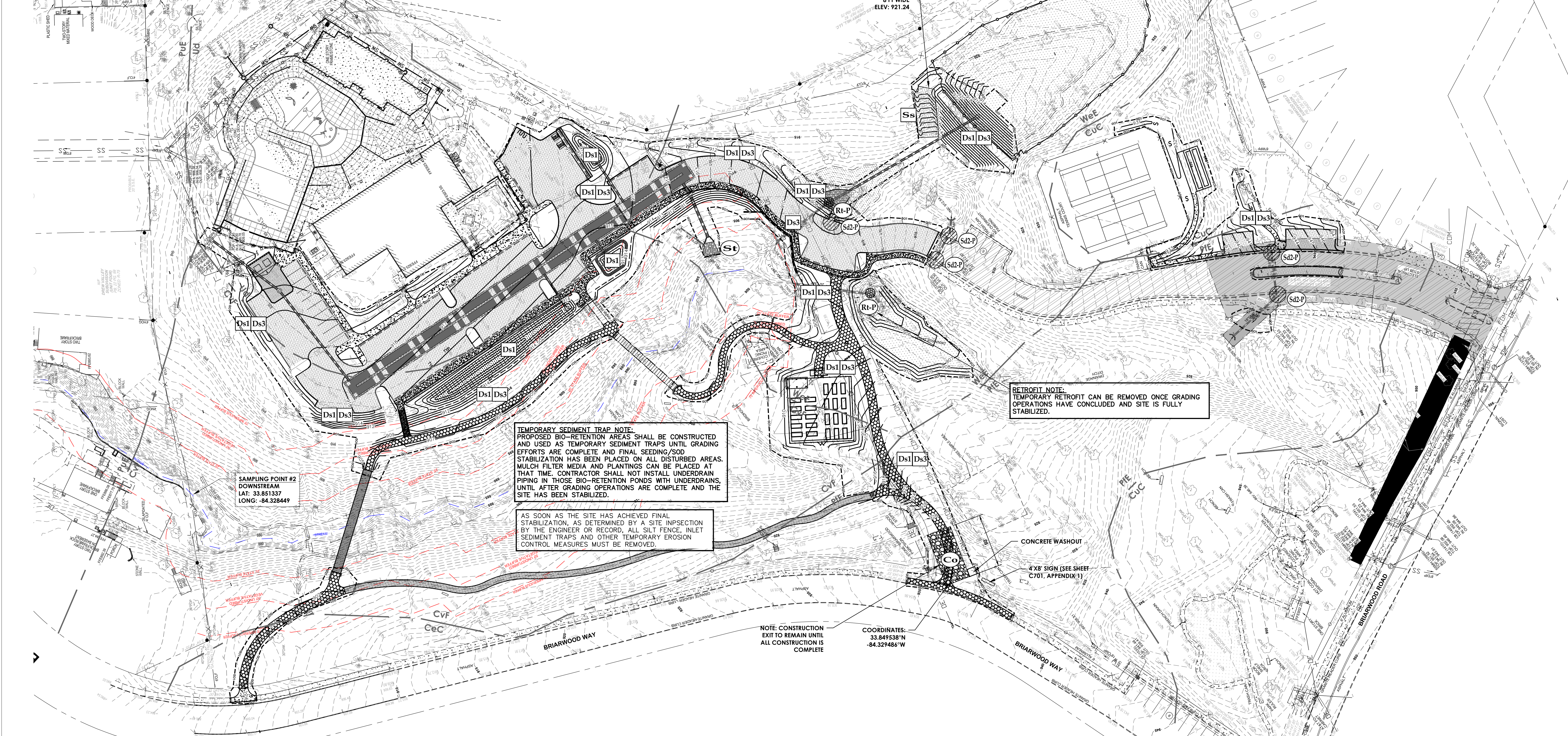
CPL | Architecture Engineering Planning  
3011 SUITON GATE DR. SUITE 130  
SUWANEE, GA 30024  
CPLteam.com

PROJECT INFORMATION

Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK  
Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

REVISION SCHEDULE

Rev.	Date	Description
1	01-14-2023	LDP CITY COMMENT #1
2	01-19-2023	BUILDING PERMIT
3	02-09-2023	LDP CITY COMMENT #2
4	02-27-2023	LDP CITY COMMENT #3
5	04-07-2023	LDP CITY COMMENT #4
6	04-20-2023	BUILDING PERMIT RESUBMITAL #1



**TEMPORARY SEDIMENT TRAP NOTE:**  
PROPOSED BIO-RETENTION AREAS SHALL BE CONSTRUCTED AND USED AS TEMPORARY SEDIMENT TRAPS UNTIL GRADING EFFORTS ARE COMPLETE AND FINAL SEEDING/SOD STABILIZATION HAS BEEN PLACED ON ALL DISTURBED AREAS. MULCH, FILTER MEDIA, AND PLANTINGS CAN BE PLACED AT THAT TIME. CONTRACTOR SHALL NOT INSTALL UNDERDRAIN PIPING IN THOSE BIO-RETENTION PONDS WITH UNDERDRAINS, UNTIL AFTER GRADING OPERATIONS ARE COMPLETE AND THE SITE HAS BEEN STABILIZED.

**AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, AS DETERMINED BY A SITE INSPECTION BY THE ENGINEER OF RECORD, ALL SILT FENCE, INLET SEDIMENT TRAPS AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED.**

**RETROFIT NOTE:**  
TEMPORARY RETROFIT CAN BE REMOVED ONCE GRADING OPERATIONS HAVE CONCLUDED AND SITE IS FULLY STABILIZED.

**NOTE: CONSTRUCTION EXIT TO REMAIN UNTIL ALL CONSTRUCTION IS COMPLETE**

**COORDINATES:**  
33.849538°N  
-84.329486°W

**SURVEY**  
TERRAMARK LAND SURVEYING, INC.  
1395 BELLS FERRY ROAD  
MARIETTA, GEORGIA 30066  
PHONE NO. (770) 421-1927  
FAX NO. (770) 421-0552  
WWW.TERRAMARK.COM  
C. O. A.# LSF000810



Sheet Size: 30x42  
Drawing Name: S:\Projects\Brookhaven\_CV\Briarwood Park\Briarwood Park Erosion Control Plans.dwg  
Plotted By: Matt Saltrick  
Date last plotted: 5/17/2023 4:08 PM  
Date last accessed: 5/17/2023 4:01 PM

DESIGN PROFESSIONAL FINAL SITE INSPECTION:

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN SHALL CONDUCT INSPECTIONS DURING THE FINAL BMP PHASE OF THE PROJECT.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE FINAL EROSION CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION  
INSPECT THE INSTALLATION OF EROSION CONTROL BMPS WITHIN SEVEN (7) DAYS  
DATE OF INSPECTION  
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II DESIGN PROFESSIONAL #  
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

ALL PERMANENT SEEDING SHALL BE APPLIED VIA HYDROSEED WITH MULCH.  
ADDITIONAL HAY MULCH SHALL BE USED TO SUPPLEMENT HYDROSEEDED AREAS WHERE DEEMED NECESSARY BY THE CONTRACTOR, ENGINEER OF RECORD OR CERTIFIED INSPECTOR.

**DS3 - PERMANENT SEEDING**

Table 6.8.2 - Permanent Cover Crops  
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER 1

Species	Broadcast Rates	Resource Area <sup>2</sup>	Planting Dates by Resource Area	Remarks
BERMUDA, COMMON <i>Cynodon dactylon</i>				
Hulled seed alone	10 lb/a    0.2 lb	P C		1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields.
with other perennials	6 lb/a    0.7 lb			

**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION  
Larry A Genn  
Level II Certified Design Professional  
CERTIFICATION NUMBER: 000029457  
ISSUED: 12/20/2021 EXPIRES: 12/20/2024

**24-HR EMERGENCY CONTACT:**  
LEE CROY  
CITY OF BROOKHAVEN  
4362 PEACHTREE ROAD  
BROOKHAVEN, GA 30319  
CELL: (678) 576 9846



**SHEET INFORMATION**  
Scale: 1"=40'  
Date: 12/01/2022  
Drawn By: MJS  
Checked By: LAG  
Design File: EROSION AND SEDIMENTATION CONTROL PLAN  
FINAL PHASE

**C704**  
SHEET # 14  
PLAN 05/31/2023  
Permit # LDP22-00019

### Construction Exit (Co)



**DEFINITION**  
A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area or any other area where there is a transition from bare soil to a paved area.

**PURPOSE**  
To reduce or eliminate the transport of mud from the construction area onto public rights-of-way by motor vehicles or by runoff.

**CONDITIONS**  
This practice is applied at appropriate points of construction egress. Geotextile underlayment is required to stabilize and support the pad aggregates.

**DESIGN CRITERIA**  
Formal design is not required. The following standards shall be used:

**Aggregate Size**  
Stone will be in accordance with National Stone Association R-2 (1.5 to 3.5 inch stone).

**Pad Thickness**  
The gravel pad shall have a minimum thickness of 6 inches.

**Pad Width**  
At a minimum, the width should equal full width of all points of vehicular egress, but not less than 20 feet wide.

**Pad Length**  
The gravel pad shall have a minimum length

of 50 feet. When the construction is less than 50' from the paved access, the length shall be from the edge of existing pavement to the permitted building being constructed.

**Location**  
The exit shall be located or protected to prevent sediment from leaving the site.

**CONSTRUCTION SPECIFICATIONS**  
It is recommended that the egress area be excavated to a depth of 3 inches and be cleared of all vegetation and roots.

**Diversion Ridge**  
On sites where the grade toward the paved area is greater than 2%, a diversion ridge (6 to 8 inches high with 3:1 side slopes) shall be constructed across the foundation approximately 15 feet above the road.

**Geotextile**  
The geotextile underlayment must be placed the full length and width of the entrance. Geotextile selection shall be based on AASHTO M288-06 specification:

- For subgrades with a CBR greater than or equal to 3 or shear strength greater than 30 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 7.3, Separation Requirements.
- For subgrades with a CBR between 1 and 3 or shear strength between 20 and 30 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 8, Geotextile Property Requirements for Sub-surface Drainage, Separation, Stabilization, and Permanent Erosion Control (Geotextile Property Requirements).

**Aggregate Size**  
Stone will be in accordance with National Stone Association R-2 (1.5 to 3.5 inch stone).

**Pad Thickness**  
The gravel pad shall have a minimum thickness of 6 inches.

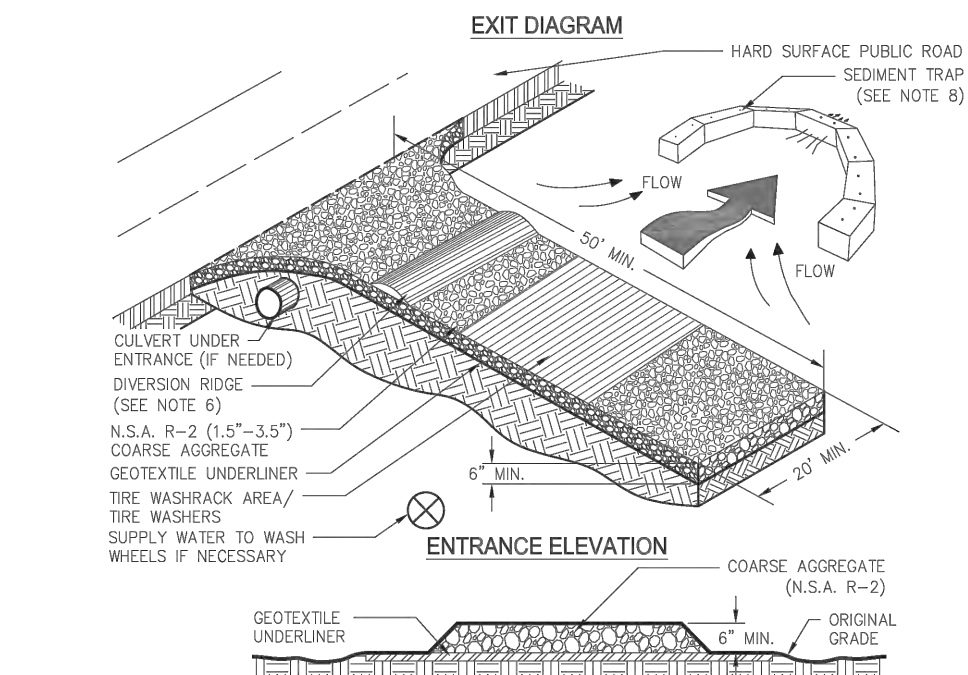
**Pad Width**  
At a minimum, the width should equal full width of all points of vehicular egress, but not less than 20 feet wide.

**Pad Length**  
The gravel pad shall have a minimum length

**MAINTENANCE**  
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled,

dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

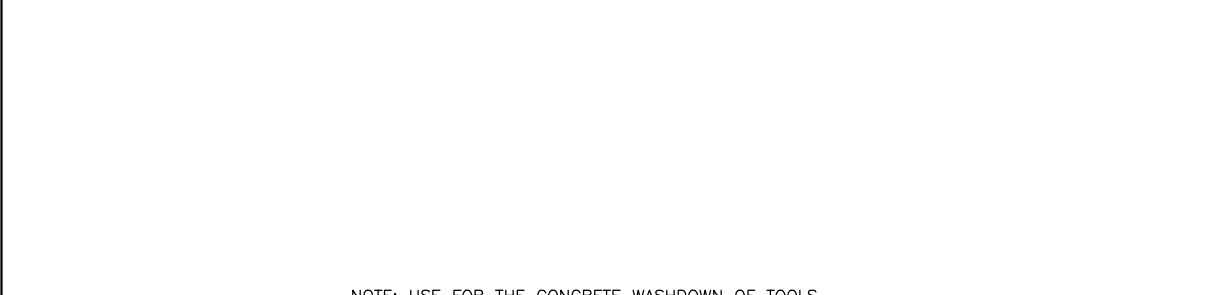
### CRUSHED STONE CONSTRUCTION EXIT



**NOTES:**  
1. ADD LOCATION OF STEEP SLOPES OR AT CURVES ON PUBLIC ROADS, DRIVEWAYS, SIDEWALKS, AND OTHER WALKWAYS FROM THE FOUNDATION AREA, GRADE, AND CURVE FOR POSITIVE DRAINAGE.  
2. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).  
3. DIVERSION RIDGE SHALL HAVE A MINIMUM THICKNESS OF 6".  
4. PAD WITH SMALL MEDIA SHALL BE FILLED WITH ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20' IN WIDTH WITH SMALL MEDIA. IT CONTAINS WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.  
5. METAL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.  
6. WIRE MESHING IS REQUIRED IF GRADE IS DOWN ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. COVER ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.  
7. INDIVIDUALS AND/OR THE WORKERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE, IF NECESSARY, WASHFACE DEVICE OR ANY MATERIAL, SUFFICIENT FOR TRACK SWEEPING.  
8. REMOVE MUD AND DIRT TO MAINTAIN AREA. IT MAY REQUIRE TOP DRESSING, REPAIR AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. IT MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**Figure 6-14.1**

### Sediment Barrier (Sd1)

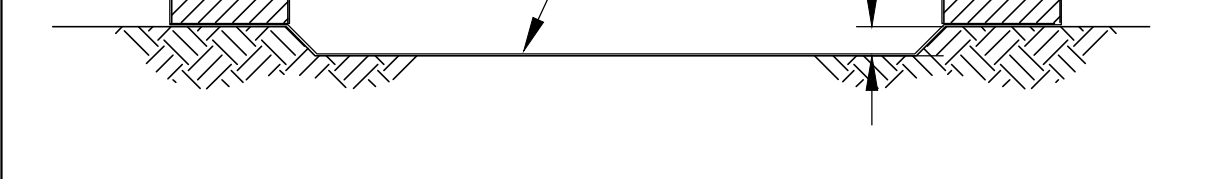


**DEFINITION**  
Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch batters, compost filter socks or other filtering material.

**PURPOSE**  
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or any areas the design professional designates as sensitive.

**CONDITIONS**  
Barriers shall be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or any areas the design professional designates as sensitive.

**DESIGN CRITERIA**  
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

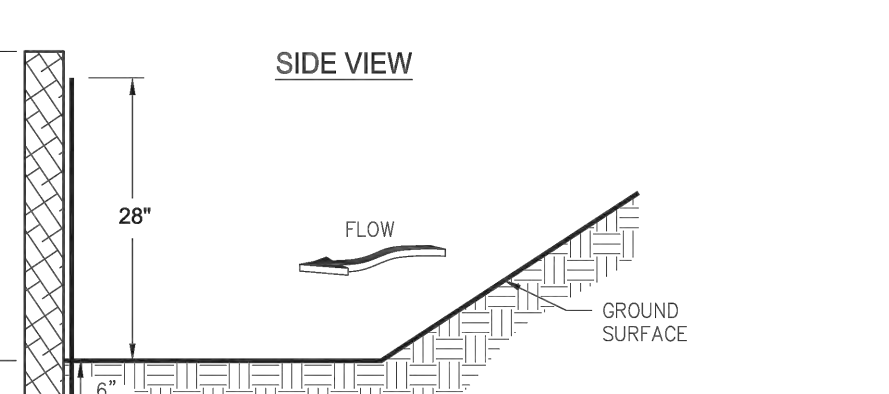


**CONCRETE WASHOUT DETAIL**

**NOTES:**  
1. ADD LOCATION OF STEEP SLOPES OR AT CURVES ON PUBLIC ROADS, DRIVEWAYS, SIDEWALKS, AND OTHER WALKWAYS FROM THE FOUNDATION AREA, GRADE, AND CURVE FOR POSITIVE DRAINAGE.  
2. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).  
3. DIVERSION RIDGE SHALL HAVE A MINIMUM THICKNESS OF 6".  
4. PAD WITH SMALL MEDIA SHALL BE FILLED WITH ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20' IN WIDTH WITH SMALL MEDIA. IT CONTAINS WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.  
5. METAL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.  
6. WIRE MESHING IS REQUIRED IF GRADE IS DOWN ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. COVER ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.  
7. INDIVIDUALS AND/OR THE WORKERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE, IF NECESSARY, WASHFACE DEVICE OR ANY MATERIAL, SUFFICIENT FOR TRACK SWEEPING.  
8. REMOVE MUD AND DIRT TO MAINTAIN AREA. IT MAY REQUIRE TOP DRESSING, REPAIR AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. IT MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**Figure 6-13.1**

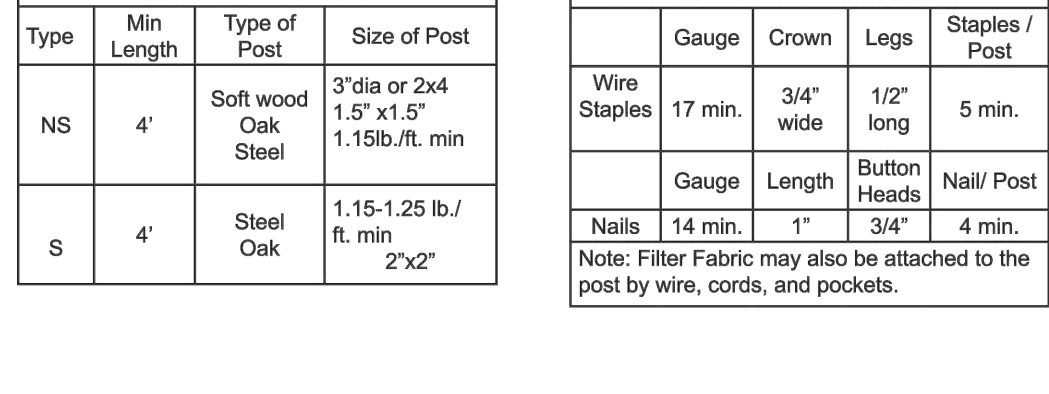
### SILT FENCE - SENSITIVE



**NOTES:**  
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.  
2. HEIGHT (H) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

**Figure 6-27.2**

### FASTENERS FOR SILT FENCES



**NOTES:**  
1. FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC POSTS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC.

**Figure 6-27.3**

### Brush Barrier (Sd1-BB)

**DEFINITION**  
Brush barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch batters, compost filter socks or other filtering material.

**PURPOSE**  
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or any areas the design professional designates as sensitive.

**CONDITIONS**  
Barriers shall be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or any areas the design professional designates as sensitive.

**DESIGN CRITERIA**  
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

**CONSTRUCTION SPECIFICATIONS**  
Compost filter media used for sediment barrier filter material shall be weed free and derived from a well-decomposed source of organic matter. Filter Media Sock is classified as a Type B, non-sensitive application. The compost shall be produced using an aerobic composting

soil. This vertical compaction reduces the air spaces in an agricultural situation to prevent infiltration. Without this compaction infiltration can saturate the soil, and water may find a path under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the installation.

**Trenching Method**  
Trenching machines have been used for over twenty years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2'-7" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which makes effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing method. The static slicing method performed better than the lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

**Along all state waters and other sensitive areas, two rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.**

**MAINTENANCE**  
Sediment shall be removed once it has accumulated to one-half the original height of the barrier.

Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its property installed height.

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

**TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN**  
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

**Static Slicing Method**  
The static slicing machine pulls a narrow blade through the ground to create a slit 1/2" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt soil upward next to the slit and to minimize horizontal compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed

soil. This vertical compaction reduces the air spaces in an agricultural situation to prevent infiltration. Without this compaction infiltration can saturate the soil, and water may find a path under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the installation.

**Trenching Method**  
Trenching machines have been used for over twenty years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2'-7" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which makes effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing method. The static slicing method performed better than the lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

**Along all state waters and other sensitive areas, two rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.**

**MAINTENANCE**  
Sediment shall be removed once it has accumulated to one-half the original height of the barrier.

Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its property installed height.

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

**TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN**  
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

### Tree Protection (Tr)



**DEFINITION**  
To protect desirable trees from injury during construction activity.

**PURPOSE**  
To ensure the survival of desirable trees where they will be effective for erosion and sediment control, watershed protection, landscape beautification, dust and pollution control, noise reduction, shade and other environmental benefits while the land is being converted from forest to other types of uses.

**CONSTRUCTION ACTIVITIES**  
Trees can be damaged or killed by a wide variety of construction activities. Obvious injuries such as broken branches or bark depletion are the tree's resources and provide entry points for insects, or for diseases such as Oak Wilt.

The worst damage, however, often remains hidden underground. Roots are one of the most vital parts of a tree. They are responsible for nutrient and water uptake, energy storage and anchoring the plant. It is critical that you protect roots that lie in the path of construction.

Soil compaction is the leading killer of urban trees. Tree roots need loose soil to grow, obtain oxygen, and absorb water and nutrients. Stockpiled building materials, heavy machinery, and excessive foot traffic, all damage soil structure. Lacking good soil aeration, roots suffocate and tree health declines.

**Requirement for Regulatory Compliance**  
Many cities and counties in Georgia have

tree protection specifications written in their local ordinances. In some areas a permit is needed to remove trees with a specified diameter. It is important for property owners and design professionals to contact the local government to obtain information regarding tree ordinances BEFORE ES&PC plans are designed. Failure to do so could result in heavy fines or delay in construction.

**DESIGN CRITERIA**  
No formal design is required. However, in planning, a number of criteria must be considered.

**Tree Protection Zones:**  
1. Measure the diameter of the tree trunk in inches at 4.5 feet from the ground. This is called the Diameter Breast Height or DBH.  
2. Multiply this value by 1.5. This result is the radius of the root protection zone in feet. This is also considered the critical root zone distance.  
Once the size of the area is determined, consider fencing materials. Orange tree save fencing or black silt fencing are commonly used.

**These materials are easy to install but they often get trampled down or removed when it is inconvenient to go around the tree save area. In some cases more permanent materials, such as chain link fencing, may be required. Whatever fencing material is used, it must be maintained throughout the construction process.**

**Tree Protection Zone Fencing:**  
Tree protection zone fencing may be one of the following:

- For areas of large remnant forest to be protected use 4 feet high orange plastic fabric fencing stapled in three locations to treated wood 2x4 stakes. Set stakes 6 feet on center. Refer to detail to be used for stakes. Figure 6-38.1
- For single family homes use a treated wood fencing as shown on detail. It may have orange fabric attached to it.
- For all other developments use 6 feet high

**chain link fencing attached to galvanized metal post as shown on detail. Figure 6-38.2**

**For more information about standards for adequate tree protection, refer to guidelines by the American National Standard (ANSI) or the International Society of Arboriculture.**

**TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN**  
When a TREE PROTECTION BARRIER is used, show the product height in inches for each barrier being used on site.

**Static Slicing Method**  
The static slicing machine pulls a narrow blade through the ground to create a slit 1/2" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt soil upward next to the slit and to minimize horizontal compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed

soil. This vertical compaction reduces the air spaces in an agricultural situation to prevent infiltration. Without this compaction infiltration can saturate the soil, and water may find a path under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the installation.

**Trenching Method**  
Trenching machines have been used for over twenty years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2'-7" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which makes effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing method. The static slicing method performed better than the lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

**Along all state waters and other sensitive areas, two rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.**

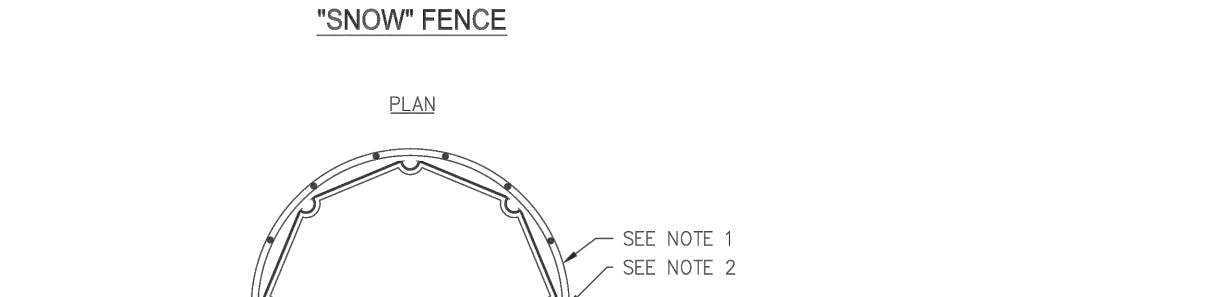
**MAINTENANCE**  
Sediment shall be removed once it has accumulated to one-half the original height of the barrier.

Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its property installed height.

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

**TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN**  
When a TREE PROTECTION BARRIER is used, show the product height in inches for each barrier being used on site.

### TREE PROTECTION "SNOW FENCE"



**NOTES:**  
1. USE TRENCHING OR OTHER METHOD TO EXPOSE AND PROTECT ROOTS.  
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER - REFER IS NOT TO BE USED FOR STAKES).  
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.  
4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.  
5. FENCING SHALL BE ORANGE VINYL "SNOW FENCE" 4" HIGH MINIMUM.

**Figure 6-38.1**

### TREE PROTECTION CHAIN LINK FENCE DETAIL



**NOTES:**  
1. FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC POSTS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC.

**Figure 6-38.2**

### Disturbed Area Stabilization (With Mulching Only) (Ds1)



**DEFINITION**  
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

**PURPOSE**  
To reduce runoff and erosion  
To conserve moisture  
To prevent surface compaction or crusting  
To control undesirable vegetation  
To modify soil temperature  
To increase biological activity in the soil

**REQUIREMENT FOR REGULATORY COMPLIANCE**  
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

**Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.**

**Requirement for Regulatory Compliance**  
If any area will remain undisturbed for greater than six months, permanent vegetation techniques shall be employed. Refer to Ds2-Dis-

**Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Seeding).**

**Site Preparation**  
1. Grade to permit the use of equipment for applying and anchoring mulch.  
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.  
3. Loosen compact soil to a minimum depth of 3 inches.

**Mulching Materials**  
Select one of the following materials and apply at the depth indicated:  
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.  
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.  
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

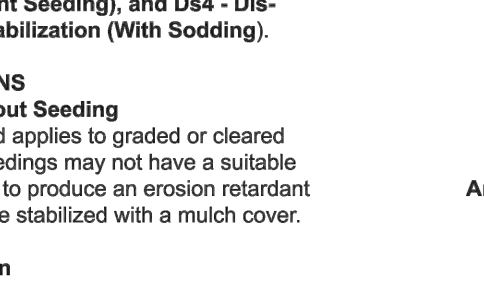
**Applying Mulch**  
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.  
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.  
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount will be required to offset the uptake of nitrogen caused by the decomposition of the organic mulches.  
3. Apply polyethylene film on exposed areas.

**Strew or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tackling straw can be substituted for emulsified asphalt. Please refer to specification Tackifiers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.**

**2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.**

**3. Polyethylene film shall be anchored trenched at the top as well as incrementally as necessary.**

### Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Seeding)



**DEFINITION**  
The standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but can be established with a mulch cover.

**Site Preparation**  
1. Grade to permit the use of equipment for applying and anchoring mulch.  
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.  
3. Loosen compact soil to a minimum depth of 3 inches.

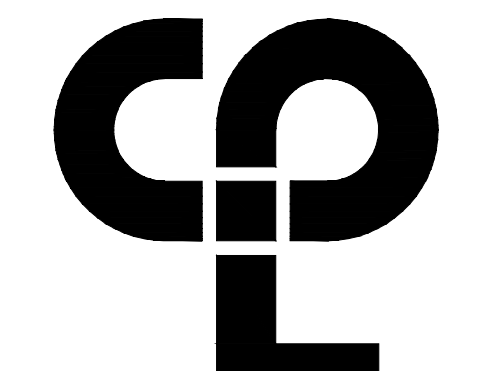
**Mulching Materials**  
Select one of the following materials and apply at the depth indicated:  
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.  
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.  
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

**Applying Mulch**  
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.  
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.  
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount will be required to offset the uptake of nitrogen caused by the decomposition of the organic mulches.  
3. Apply polyethylene film on exposed areas.

**Strew or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tackling straw can be substituted for emulsified asphalt. Please refer to specification Tackifiers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.**

**2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.**

**3. Polyethylene film shall be anchored trenched at the top as well as incrementally as necessary.**



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CPLteam.com

### PROJECT INFORMATION

Project Number: 15991.00  
Client Name:  
City of Brookhaven

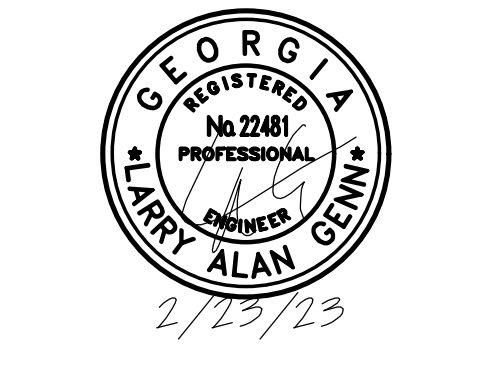
Project Name:  
BRIARWOOD PARK

Project Address:  
2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

Revision Schedule:  
1. 01-24-2023 LDP/CPC COMMENT #1  
2. 01-31-2023 BUILDING PERMIT  
3. 02-05-2023 LDP/CPC COMMENT #2  
4. 02-27-2023 LDP/CPC COMMENT #3

### REVISION SCHEDULE

1. 01-24-2023 LDP/CPC COMMENT #1  
2. 01-31-2023 BUILDING PERMIT  
3. 02-05-2023 LDP/CPC COMMENT #2  
4. 02-27-2023 LDP/CPC COMMENT #3



2/27/23

### SHEET INFORMATION

Scale: N.T.S.  
Date: 12/01/2022  
Checked by: LAG  
Designed by: MMS

Revision No:  
EROSION AND SEDIMENTATION CONTROL DETAILS I

### C705

PLAN 04/28/2023  
Sheet # LDP22-00019

**Inlet Sediment Trap (Sd2)**



**DEFINITION**  
A temporary protective device formed at or around an inlet to a storm drain to trap sediment.

**PURPOSE**  
To prevent sediment from entering a storm drainage system prior to permanent stabilization of the disturbed area draining to the inlet.

**CONDITIONS**  
All storm drain drop inlets that receive runoff from disturbed areas.

**DESIGN CRITERIA**  
Through testing there are two different categories (high retention and high flow) supported. In areas where BMPs are being used on paved surfaces, or safety is a concern, the potentially negative effects of ponding should be taken into account. In such cases, a high flow BMP is preferred.

On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unpaved application should apply.

Sediment traps may be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than 200 sq. ft.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone

6-147

**Storm Drain Outlet Protection (St)**



**DEFINITION**  
Paved and/or riprapped channel sections, placed below storm drain outlets.

**PURPOSE**  
To reduce velocity of flow before entering receiving channels below storm drain outlets.

**CONDITIONS**  
This standard applies to all storm drain outlets, road culverts, paved channel outlets, etc. Riprapped, natural or constructed channels. Analysis and/or treatment will extend from the end of the conduit, channel or structure to the point of entry into an existing stream or publicly maintained drainage system.

**DESIGN CRITERIA**  
Structurally level aprons at the outlets of pipes and paved channel sections shall be designed according to the following criteria:

**Capacity**  
Peak stormflow from the 25-year, 24-hour frequency storm or the storm specified in Title 12-7.1 of the Official Code of Georgia Annotated or the design discharge of the water conveyance structure, whichever is greater.

**Tailwater Depth**  
The depth of tailwater immediately below the pipe outlet must be determined for the design capacity of the pipe. Manning's Equation may be used to determine tailwater depth. If the tailwater depth is less than half the diameter of the outlet pipe, it shall be classified as a Minimum Tailwater Condition. If the tailwater depth is greater than half the pipe diameter, it shall be classified as a

6-207

**Diversion (DI)**



**DEFINITION**  
A ridge of compacted soil, constructed above, across or below a slope.

**PURPOSE**  
To reduce the erosion of steep, or otherwise highly erodible areas by reducing slope lengths, intercepting storm runoff and diverting it to a stable outlet at a non-erodible velocity.

**CONDITIONS**  
Diversion are applicable when:

- Runoff from higher areas is or has potential for damaging property, causing erosion, contributing to pollution, flooding, interfering with or preventing the establishment of vegetation on lower areas.
- Surface and/or shallow subsurface flow is damaging sloping upland.
- The length of slope needs to be reduced so that soil loss will be reduced to a minimum.

This standard applies to temporary and permanent diversions in developments involving land-disturbing activities.

**DESIGN CRITERIA**  
**Location**  
Diversion location shall be determined by considering outlet conditions, topography, land use, soil type, length of slope, steep slopes (when passage is a problem), and the development layout. Diversions should be tailored to fit the conditions for a particular field and local soil types.

**Stabilization**  
Each diversion must be stabilized in accordance with item 5 of the construction specifications.

**Diversions For Roads and Utility Rights - of Way**  
A detailed design is not required for this type of diversion. Diversions installed to divert water

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filter ring may be used on the up slope side of the inlet to slow runoff and filter larger soil particles. Refer to Fr-Stone Filter Ring.

**CONSTRUCTION SPECIFICATIONS**  
**Excavated Inlet Sediment Trap**  
An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1.

Sediment traps may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill, provided they have a non-erodible outlet.

**Filter Fabric with Supporting Frame (Sd2-P)**  
This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type S all fences supported by steel posts should be used.

The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

**Barfite Box (Sd2-B)**  
For inlets receiving runoff with a higher volume or velocity, a barfite box inlet sediment trap should be used. As shown in Figure 6-28.2, the barfite box shall be constructed of 2" x 4" boards spaced a maximum of 1 inch apart or plywood with weep holes 2 inches in diameter. The weep holes shall be placed approximately 6 inches on center vertically and horizontally. Gravel shall be placed outside the box, all around the inlet, to a depth of 2 to 4 inches. The entire box is wrapped

around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

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In Type C filter fabric that shall be entrenched 12 inches and backfilled.

**Block and Gravel Drop Inlet Protection (Sd2-Bg)**  
This method of inlet protection is applicable where heavy flows are expected and where an overflow capacity is necessary to prevent excessive ponding around the structure. As shown in Figure 6-28.3, one block is placed on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. The bottom row of blocks is placed against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, lateral support may be given to subsequent rows by placing 2" x 4" wood studs through block openings. Hardware cloth or comparable wire mesh with 1/2 inch openings shall be filled over all block openings to hold gravel in place. Clean gravel should be placed 2 inches below the top of the block on a 2:1 slope or flatter and smoothed to an even grade. DOT #57 washed stone is recommended.

**Gravel Drop Inlet Protection (Sd2-G)**  
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide stone area shall be placed between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (#57 washed stone) should be used at a minimum thickness of 1 foot.

**Sod Inlet Protection (Sd2-S)**  
This method of inlet protection is applicable only at the time of permanent seeding, to protect the inlet from sediment and much material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a full mat covering the soil for

minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

**MAINTENANCE**  
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in D64 - Disturbed Area Stabilization (With Sodding).

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either

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a distance of 4 feet from each side of the inlet structure. Sod strips shall be staggered so that adjacent strip ends are not aligned.

**Curb Inlet Protection (Sd2-P)**  
Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-blanket", 8-inch concrete blocks wrapped in filter fabric. See Figure 6-28.6. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4 inches shall be left between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition. Several other methods are available to prevent the entry of sediment into storm drain inlets.

Figure 6-28.7 shows one of these alternative methods.

**MAINTENANCE**  
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in D64 - Disturbed Area Stabilization (With Sodding).

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

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salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

**CONSTRUCTION SPECIFICATIONS**  
The apron shall be placed so that there are no bends in the horizontal alignment.

**Geotextile**  
Geotextiles should be used as a separator between the graded stone, the soil base, and the subgrade. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone.

**Materials**  
The apron may be lined with riprap, grouted riprap, or concrete. The median sized stone for riprap,  $d_{50}$ , shall be determined from the curves, Figures 6-34.1 and 6-34.2, according to the tailwater condition. The gradation, quality and placement shall conform to Appendix C.

Refer to Figure 6-34.4, for alternative structures to achieving energy dissipation at an outlet. For information regarding the selection and design of these alternative energy dissipators, refer to:

FHWA Standard (REF: Hydraulic Design of Energy Dissipators For Culverts and Channels: HEC No. 14, FHWA, Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

**CONSTRUCTION SPECIFICATIONS**  
1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.

2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.

3. Geotextile must meet design requirements and be properly protected from puncture or tearing during installation. Repair any damage by removing the riprap and placing an additional piece of filter fabric over the damaged area. All connecting joints should overlap a

minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

4. Riprap may be placed by equipment, but take care to avoid damaging the filter.

5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.

6. Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.

7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper portion of the apron.

8. Immediately after construction, stabilize all disturbed areas with vegetation.

9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.

10. Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth. See Appendix C, p. C-1.

**MAINTENANCE**  
Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

**CONSTRUCTION SPECIFICATIONS**  
1. Ensure that the subgrade for the riprap and filter follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.

2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.

3. Geotextile must meet design requirements and be properly protected from puncture or tearing during installation. Repair any damage by removing the riprap and placing an additional piece of filter fabric over the damaged area. All connecting joints should overlap a

minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

4. Riprap may be placed by equipment, but take care to avoid damaging the filter.

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6. Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.

7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper portion of the apron.

8. Immediately after construction, stabilize all disturbed areas with vegetation.

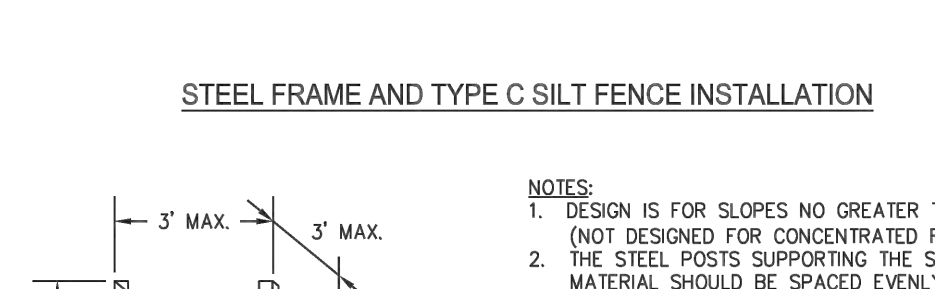
9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.

10. Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth. See Appendix C, p. C-1.

**MAINTENANCE**  
Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

**CONSTRUCTION SPECIFICATIONS**  
1. Ensure that the subgrade for the riprap and filter follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.

**FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION**



**NOTES:**  
1. DESIGN IS FOR SLOPES NO GREATER THAN 6% (NOT DESIGNED FOR CONCENTRATED FLOWS).  
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).  
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.  
4. THE SILT FENCE SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

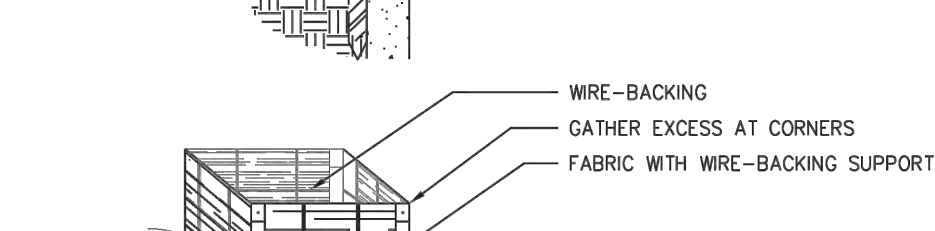
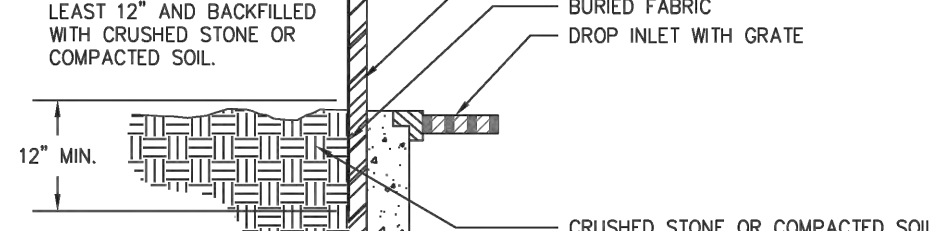
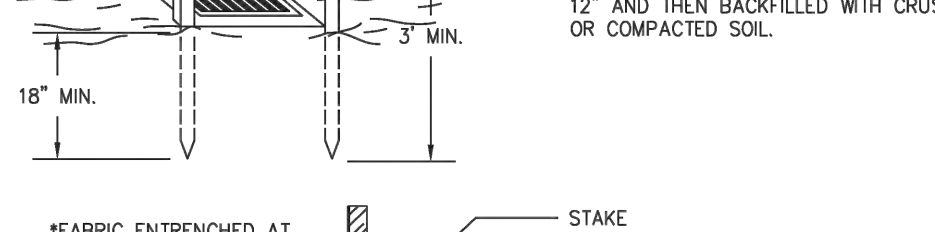


Figure 6-28.1 - Fabric and Supporting Frame For Inlet Protection

6-150

**CURB INLET FILTER "PIGS IN BLANKET"**

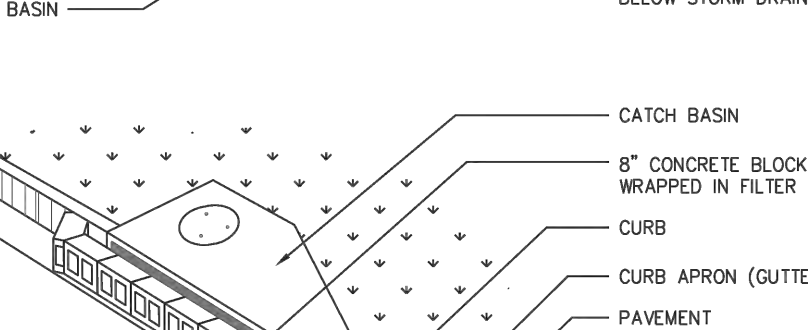
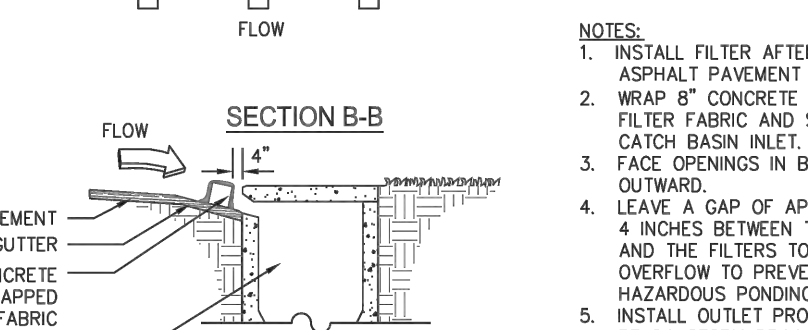
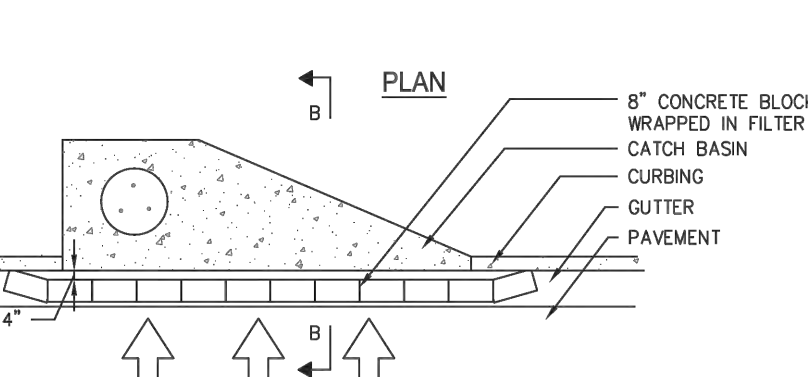


Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

6-154

**RIPRAP OUTLET PROTECTION**

**PIPE OUTLET TO FLAT AREA - NO WELL DEFINED CHANNEL**

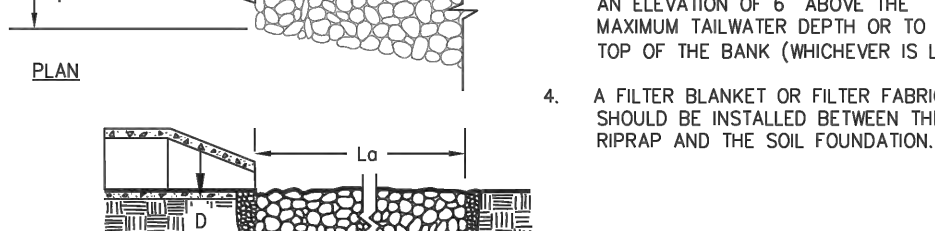
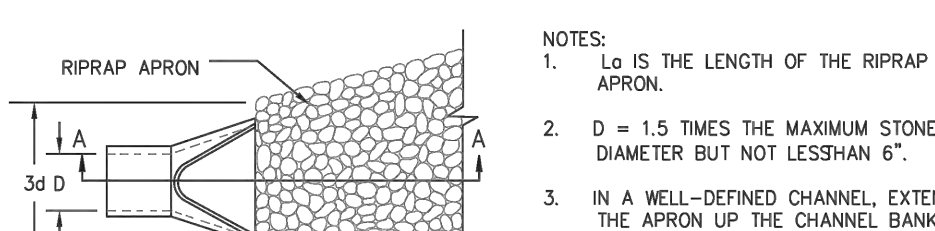


Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

Figure 6-34.4 - Design of Outlet Protection From a Round Pipe Flowing Full, Minimum Tailwater Condition (Tw = 0.5 Diameter)

Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

Figure 6-34.4 - Design of Outlet Protection From a Round Pipe Flowing Full, Minimum Tailwater Condition (Tw = 0.5 Diameter)

Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

**NOTES:**  
1.  $L_o$  IS THE LENGTH OF THE RIPRAP APRON.  
2.  $D = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".  
3. IN A WELL-DEFINED CHANNEL, EXTEND THE RIPRAP UP THE CHANNEL BANKS TO AN ELEVATION OF  $H$  ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).  
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

**CONSTRUCTION SPECIFICATIONS**  
1. Ensure that the subgrade for the riprap and filter follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.

2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.

3. Geotextile must meet design requirements and be properly protected from puncture or tearing during installation. Repair any damage by removing the riprap and placing an additional piece of filter fabric over the damaged area. All connecting joints should overlap a

minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

4. Riprap may be placed by equipment, but take care to avoid damaging the filter.

5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.

6. Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.

7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper portion of the apron.

8. Immediately after construction, stabilize all disturbed areas with vegetation.

9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.

10. Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth. See Appendix C, p. C-1.

**MAINTENANCE**  
Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

**CONSTRUCTION SPECIFICATIONS**  
1. Ensure that the subgrade for the riprap and filter follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.

2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.

**Filter Ring (Fr)**



**DEFINITION**  
A temporary stone barrier constructed at storm drain inlets and pond outlets.

**PURPOSE**  
This structure reduces flow velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed area.

**CONDITIONS**  
Filter rings shall be used in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate (such as inlets to concrete basins). They can be installed at or around devices such as inlet sediment traps, temporary down drain inlets, and detention pond retrofits to provide additional sediment filtering capacity.

**DESIGN CRITERIA**  
Formal design is not required. The following standards shall be used:

**Location**  
The filter ring shall surround all sides of the structure receiving runoff from disturbed areas. It should be placed a minimum of four feet from the structure. The ring is not intended to substantially impound water, causing flooding or damage to adjacent areas.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit

structure, it should be a minimum of 8 to 10 feet from the retrofit.

**Stone Size**  
When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-6 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-18 inches (50 - 100 lbs.).

The larger stone can be faced with smaller filter stones on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring frequent maintenance.

**Height**  
The filter ring shall be constructed at a height no less than two feet from ground.

**CONSTRUCTION SPECIFICATIONS**  
Mechanical or hand placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications.

A common failure of filter rings is caused by their placement too close or too high above the structure it is entrenching. When utilized below a storm drain outlet, it shall be placed such that it does not create a condition causing water to back-up into the storm drain and inhibit the function of the storm drain system.

**MAINTENANCE**  
The filter ring must be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-half full. Structures are temporary and should be removed when the land-disturbing project has been stabilized.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit

structure, it should be a minimum of 8 to 10 feet from the retrofit.

**Stone Size**  
When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-6 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-18 inches (50 - 100 lbs.).

The larger stone can be faced with smaller filter stones on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring frequent maintenance.

**Height**  
The filter ring shall be constructed at a height no less than two feet from ground.

**CONSTRUCTION SPECIFICATIONS**  
Mechanical or hand placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications.

A common failure of filter rings is caused by their placement too close or too high above the structure it is entrenching. When utilized below a storm drain outlet, it shall be placed such that it does not create a condition causing water to back-up into the storm drain and inhibit the function of the storm drain system.

**MAINTENANCE**  
The filter ring must be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-half full. Structures are temporary and should be removed when the land-disturbing project has been stabilized.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit

structure, it should be a minimum of 8 to 10 feet from the retrofit.

**Stone Size**  
When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-6 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-18 inches (50 - 100 lbs.).

**STONE FILTER RING**

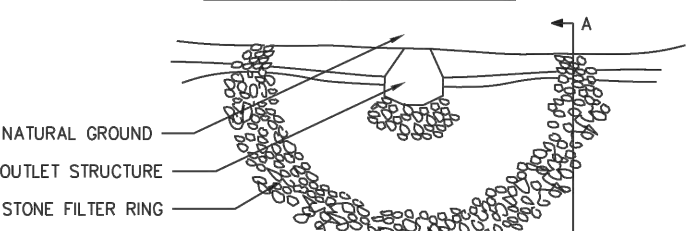
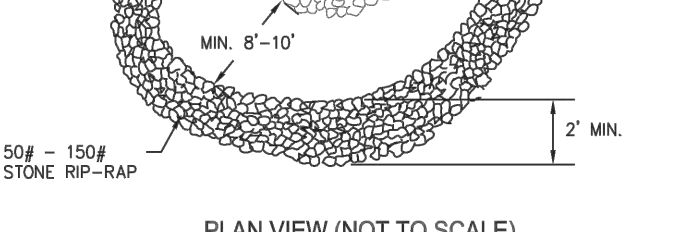
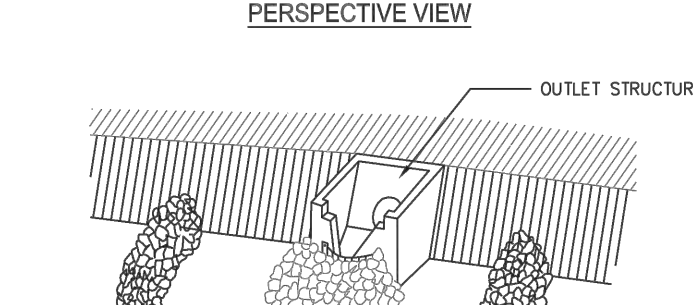
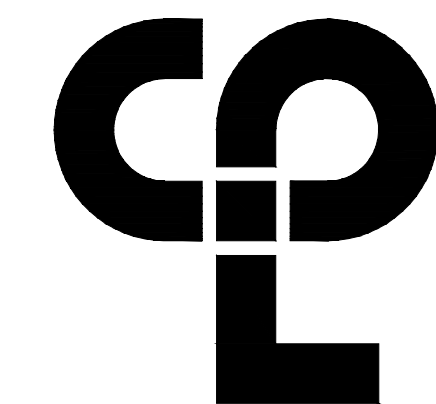


Figure 6-20.1

Figure 6-20.1

Figure 6-20.1



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SUWANEE, GA 30024  
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**PROJECT INFORMATION**  
Project Number: 15991.00  
Client: CITY OF BROOKHAVEN

Project Name: BIRWOOD PARK

Project Address: 2235 BRARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**  
1. 01-24-2023 LDP CFI COMMENT

### Disturbed Area Stabilization (With Permanent Vegetation) Ds3



**DEFINITION**  
The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

**PURPOSE**  
To protect the soil surface from erosion  
To reduce damage from sediment and runoff to down-stream areas  
To improve wildlife habitat and visual resources  
To improve aesthetics

**REQUIREMENT FOR REGULATORY COMPLIANCE**  
This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPCO for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater or landscaped according to the Plan (uniformly covered with landscaping materials in landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. This standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall be removed.

**CONDITIONS**  
Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, ditches, and other denuded areas.

- PLANNING REQUIREMENTS**
- Use conventional planting methods where possible.
  - When mixed plantings are done during marginal planting periods, companion crops shall be used.
  - No-ill planting is effective when planting is done following a summer or winter annual cover crop. *Sericea lespedeza* planted no-ill into stands of pine is an excellent procedure.
  - Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete foundations and other structures. Refer to Specification Ds4-Disturbed Area Stabilization (With Sodding).
  - Irrigation should be used when the soil is dry or when summer planting and seeding is done.
  - Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
  - Mowing should not be performed during the quill resting season (May to September).
  - Wildlife plantings should be included in critical area plantings.

**Wildlife Plantings**  
Commercially available plants beneficial to wildlife species include the following:  
**Best Seeding Trees**  
Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides food used mainly by squirrels and bears.

**Shrubs and Small Trees**  
Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Highberry or Native Bittersweet, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.  
**Grasses, Legumes, Vines and Temporary Cover**  
Bahagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grasses.  
Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grasses, but they may die out after a few years.

When conventional seeding and fertilizing are used, that equipment can be used safely and effectively during seedling establishment, mulching and maintenance of the vegetation. Concentrations of water that will cause excessive

soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

**Line and Fertilizer Rates and Analysis**  
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be ground limestone. Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 20-mesh sieve and not less than 25 percent will pass through a 40-mesh sieve.

Fast-track lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestones in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRA's. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilizing, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

**Plant Selection**  
Refer to Tables 6-4.1, 6-4.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area, time of year of planting, method of planting, and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and *Sericea lespedeza*, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and soil protection until the largest perennial species becomes established. For example, Common seeding combinations are 1) Weeping Lovegrass with *Sericea lespedeza* (seeded) and 2) Tall Fescue with *Sericea lespedeza* (unseeded).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common

hydroseeder.

Finely ground limestone can be applied in the much slurry or in combination with the top dressing.

- Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
- Mix with the soil used to fill the holes, distribute broadcast after deep surfaces are scarified, piled or trenched.
- A fertilizer pallet shall be placed at random depth in the closing hole beside each pine tree seeding.

**Plant Selection**  
Refer to Tables 6-4.1, 6-4.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area, time of year of planting, method of planting, and the needs and desires of the land user.

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Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common

mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

**Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.**

**Seed Quality**  
The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination, i.e.,

**EXAMPLE:**  
Common Bermuda seed 70% germination, 80% purity  
PLS = 70% germination x 80% purity  
PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56% PLS, the bulk seeding rate is:

**10 lbs. PLS/lb. seed x 17.9 lb/acre = 179 lb/acre = 10 lbs/acre of pure live seed.**

**Seeded Preparation**  
Seeded preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seeded preparation will be done as follows:

**Broadcast plantings**  
1. Tillage, at a minimum, shall adequately

loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.

**Tillage** may be done with any suitable equipment.  
**Tillage** should be done on the contour where feasible.  
On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or furrowed across the slope and with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used when using a cultipacker or other suitable equipment.

**Individual Plants**  
Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.

For nursery stock plants, holes shall be large enough to accommodate roots without crowding.

Where pine seedlings are to be planted, subsoil under the row 36 inches deep to the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

**Inoculants**  
All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the label.

A mixing medium recommended by the manufacturer should be used to bond the inoculant to the seed. For conventional seeding, use the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted

the same day inoculated. No inoculated seed shall remain in the container for more than one hour.

**Planting**  
**Hydraulic Seeding**  
Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

**Conventional Seeding**  
Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a culti-packer-seeder, drill, rotary seeder, or other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated.

Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

**No-Till Seeding**  
No-ill seeding is permissible into annual cover or crop when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate plug of the permanent (perennial) species. No-ill seeding shall be done with appropriate no-ill seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

**Individual Plants**  
Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The top of vines and sprigs must be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

**Mulching**  
Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, water

establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

- Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 to 12 tons per acre.
- Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) with hydraulic seeding.
- One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3:4:1 or steeper.
- Sericea lespedeza* hay containing mature seed shall be applied at a rate of three tons per acre.
- Pine straw or pine bark shall be applied at a thickness of 2 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
- When using temporary erosion control blankets or blocks and mulch is not required.
- Blurred treated roofing may be applied on planar areas, slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roofing shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.
- Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly distributed and anchored in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

**Applying Mulch**  
Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or plant-

ing. The mulch may be spread by lower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

**Anchoring Mulch**  
Anchor straw or hay mulch immediately after application by one of the following methods:

- Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
- Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications.
- All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified non-toxic through EPA/2021 D-testing. Refer to Tackifiers-Tac.
- Rye or wheat can be included with Tall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre.
- Plastic mesh or netting with mesh no larger than one inch by one inch may be used to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

**Bedding Material**  
Bedding material is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

**Wind Erosion Control**  
This practice shall be used before wind erosion starts, begin blowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

**Irrigation**  
This is generally done as an emergency treatment. Sites is sprinkled with water until the surface is wet. Repeat as needed.

**Barriers**  
Solid board fences, snowfences, barbed fences, crate walls, bales of hay and similar material can be used to dissipate air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 feet their height are effective in controlling wind erosion.

**Calcium Chloride**  
Apply at rate that will keep surface moist. May need retreatment.

**Permanent Vegetation**  
See specification Ds3 -Disturbed Area Stabilization (With Permanent Vegetation) for details on seeding and mulch.

**Topsoiling**  
This entails covering the surface with less erodible soil material. See specification T-1 - Second Construction Road Stabilization.

**Stone**  
Cover surface with crushed stone or coarse gravel. See specification C-3-Construction Road Stabilization.

**Vegetative Cover**  
See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

**Spray-on Adhesives**  
These are used on mineral soils (not effective on muck). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

**Tillage**  
This practice is designed to roughen and bring clods to the surface. It is an emergency

**CONDITIONS**  
Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g., annual ryegrass). Contact NRCS or the local SWCD for more information.

**SPECIFICATIONS**  
**Grading and Shaping**  
Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

**Seeded Preparation**  
When a hydraulic seeder is used, seeded preparation is not required. When using conventional or hand-seeding, seeded preparation is not required if the soil material is loose and not sealed by rainfall.

**Line and Fertilizer**  
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a site determined by soil test for 4 days of disturbance. Temporary grazing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grazing is lacking, mulch can be used as a singular erosion control device for up to six months. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

**Seeding**  
Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

**Mulching**  
Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

**Irrigation**  
During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent application should be made when needed.

**Fertilizer Requirements**

TYPE OF SPECIES	YEAR	ANALYSER OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
6. Temporary cover crops needed alone	First	10-10-10	600 lbs./ac.	30 lbs./ac.

**NOTE:**  
1. AGRICULTURAL LIME IS REQUIRED TO BE APPLIED TO GRADED AREAS.  
2. A SOIL TEST IS REQUIRED TO DETERMINE THE AMOUNT OF LIME AND FERTILIZER NEEDED.  
3. QUICK ACTION LIME SHOULD BE CONSIDERED DURING SEED GERMINATION PERIOD.  
4. AGRICULTURAL LIME IS TO BE APPLIED AT A RATE OF 1 TO 2 TONS PER ACRE OR AS DETERMINED BY SOIL TEST.

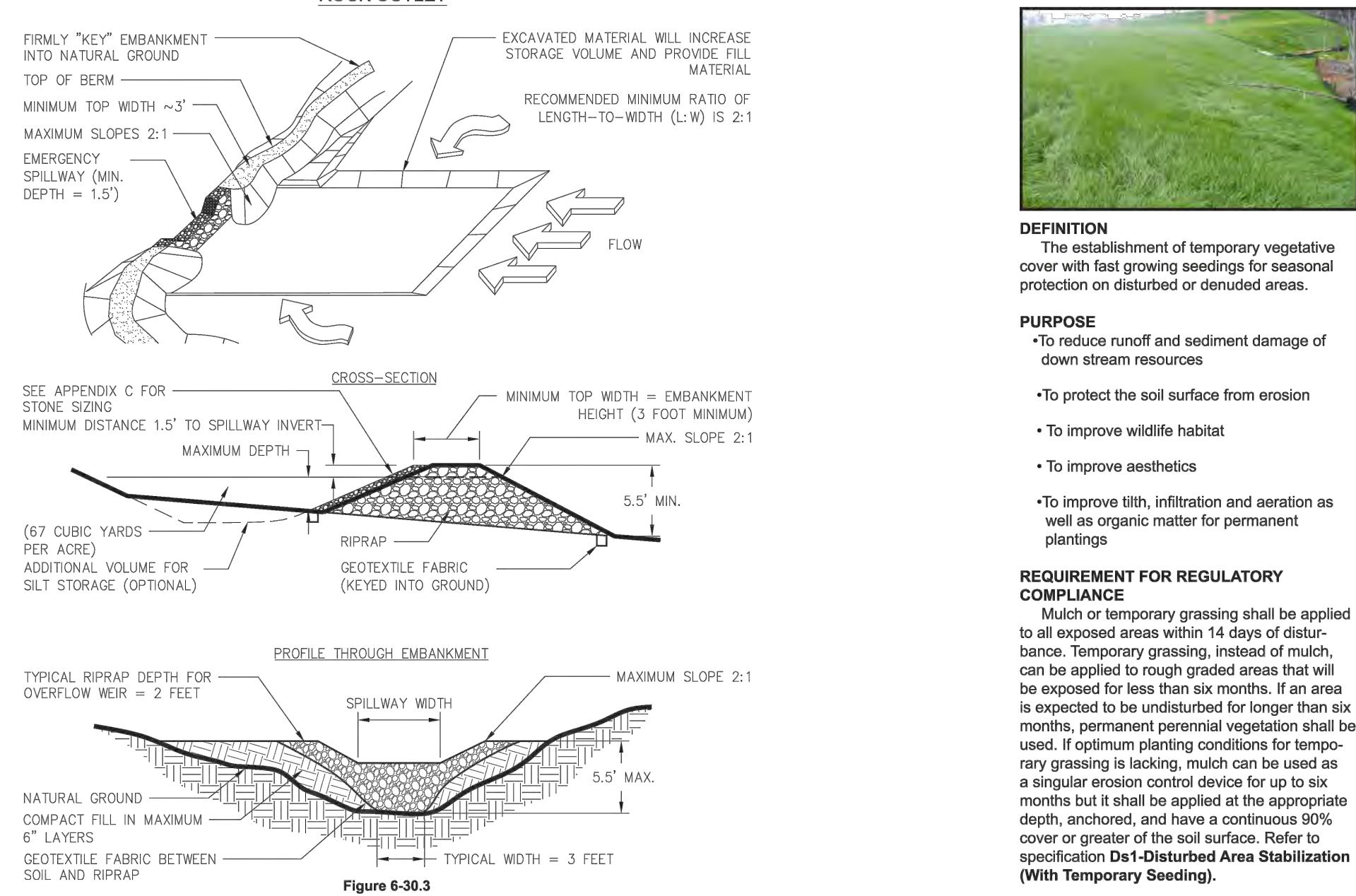
Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSER OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2
	Second	6-12-12	1000 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	400
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	10-10-10	1300 lbs./ac. 3/	1100 lbs./ac.
4. Pine seedlings alone or with temporary cover	First	20-10-5	one 21 gram pellet	—
	Second	—	with other perennials	—
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	—
	Second	0-10-10	700 lbs./ac. 4/	—
6. Temporary cover crops needed alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
	Second	—	with other perennials	—
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 25/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	30 lbs./ac.
	Second	0-10-10	1000 lbs./ac.	400 lbs./ac.

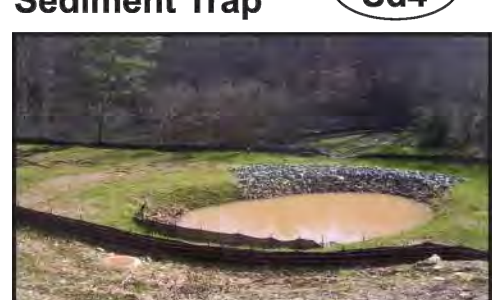
1/ Apply in spring following seeding.  
2/ Apply in soft applications when high rates are used.  
3/ Apply in soft applications.  
4/ Apply when plants are pruned.  
5/ Apply to grass species only.  
6/ Apply when plants grow to a height of 2 to 4 inches.

CONTRACTOR SHALL PERFORM SOIL TESTS TO DETERMINE SPECIFIC FERTILIZER NEEDS OF SOIL. SOIL TEST SHALL BE PROVIDED TO OWNER.

### TEMPORARY SEDIMENT TRAP (ROCK OUTLET)



### Temporary Sediment Trap Sd4



**DEFINITION**  
A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.

**PURPOSE**  
To collect and store sediment from uphill sites cleared and graded during construction. Intended for use on small tributary areas with no unusual drainage features. Effective against coarse sediment, but not against silt or clay particles that remain suspended.

**CONDITIONS**  
Temporary sediment traps are constructed early in the construction process at locations that will require minimal clearing and grading. Natural draws or swells are favorable locations to build the traps. They should be easily accessible for frequent maintenance and inspections. Temporary sediment traps shall never be placed in live streams.

**DESIGN CRITERIA**  
Design and construction shall comply with laws, ordinances, rules and regulations on the local, state and federal level.

The total drainage area of a temporary sediment trap is up to 5 acres, depending on type of construction.

The height of a temporary sediment trap embankment shall not exceed 5.5 feet as measured from the downstream toe of slope to the top of the berm. Top width of an embankment shall be

at least as wide as the height of the sediment trap embankment, with a minimum width of 3 feet. Maximum pond depth of a sediment trap is 4 feet as measured from the bottom of the trap to the invert of the emergency spillway. Slopes shall not exceed 2:1 (H:V) for excavated areas and for compacted embankments. Side slopes should be (3:1) or flatter allowing people and equipment to safely negotiate slopes or to enter the sediment trap.

The length to width ratio must be greater than (2:1) (L:W) for the principal flowpaths in order to maximize residence time of stormwater within the sediment trap. Barries may be required to prevent short-circuiting of the flow.

A typical baffle design uses 4"x8" sheets of exterior grade plywood 1/2 inch thick, mounted on 4"x4" hardwood posts.

**Volume**  
Minimum volume of a temporary sediment trap shall be 67 cubic yards per acre for the total drainage area. The volume shall be measured at an elevation equivalent to the spillway invert.

Volume of a temporary sediment trap in heavily disturbed areas should be 134 cubic yards per acre for the total drainage area. This includes an upper area with a minimum of 67 cubic yards per acre drained, which is dewatered using one of the outlet design methods provided, and a lower wet zone for sediment storage and setting.

The volume should be calculated from existing and proposed contours, or by measured cross sections. An approximate method for calculating the volume of traps using a natural draw is:

V = 0.4 x A x D  
V = Volume of trap (cubic yards)  
A = Surface area (at level of emergency spillway)  
D = Maximum depth (from emergency spillway invert)

The design volume for a temporary sediment trap is 1/3 of the total storage volume. Clearout volume shall be calculated and marked with a stake at the outlet of the trap.

**CONSTRUCTION SPECIFICATIONS**  
The basic design guidelines are applicable to the type of temporary sediment trap constructed. The main differences are with regards to the type of outlet structures. The following types of construction are acceptable under the designated conditions:

**Overflow (Sd4-A)**  
An overflow temporary sediment trap is limited to small areas less than 1 acre, typically with gentle slopes (1 or 2 percent) and without major grading operations. The maximum life span of an overflow trap is 6 months. If water enters the trap with very low velocities, the same amount of water will be slowly displaced and leave the other end of the sediment trap. Silt fence, straw bale barriers or grass filter strips are used to "pool" the overflow water as it leaves the sediment trap. See Figure 6-30.1

**Combination Straw Bale and Silt Fence Outlet (Sd4-B)**  
The combination outlet uses straw bales and silt fence to dewater the sediment trap. Proper installation and stacking of the straw bales, and wire backing on the silt fence are required for the materials to resist 1 foot or more of ponded water. The combination straw bale and silt fence outlet is limited to 1 acre total drainage area, and has a life span of less than 1 year. This type of outlet requires frequent maintenance and adjustments to ensure the released stormwater is free from sediment. See Figure 6-30.2

**Rock Outlet (Sd4-C)**  
The rock outlet relies on filtering through layers of aggregate, rock or trap material to dewater the sediment trap. It is the standard of the sediment trap design and generally requires less maintenance. It can be used for drainage areas up to 5 acres and has a life span of 1 year. See Figure 6-30.3

**Emergency Spillway**  
The emergency overflow outlet of a temporary sediment trap must be stabilized with rock, geotextile, vegetation, or another suitable material capable of resisting to erosion. It must be related to safely convey stormwater runoff for the 10-year storm event.

**REFERENCE:**  
City of Knoxville BMP Manual Best Management Practices, Knoxville, TN, May 2003

### Disturbed Area Stabilization (With Temporary Seeding) Ds2



**DEFINITION**  
The establishment of temporary vegetation that can settle out.

**Retrofitting** Rt



**DEFINITION**  
A device or structure placed in front of a permanent stormwater detention pond or roadway drainage structure to serve as a temporary sediment filter.

**PURPOSE**  
Allows permanent stormwater detention basin structures to function as temporary sediment retention basins for land-disturbing projects, and allow roadway drainage to be used for temporary sediment storage.

**CONDITIONS**  
This standard applies under the following conditions:

1. Shall not be used in basins on live streams or in basins with a total contributing drainage area of 100 acres or more.
2. Shall only be used in basins large enough to store 67 cubic yards of sediment per acre of disturbed area in the project.
3. Shall be considered a temporary structure and will be removed as soon as project is permanently stabilized. All accumulated sediment shall be removed, and the pond or basin shall be brought to final grade (if possible), prior to the removal of the retrofit.

**DESIGN CRITERIA**

1. The height of the retrofit should be approximately one-half the height of the structure.
2. A retrofitted detention pond must be capable of storing the required volume.

of sediment in addition to the required stormwater volume. The required sediment storage volume shall be achieved by either excavating the basin or raising the outlet structure's invert to achieve 67 cubic yards per acre of sediment storage. Remove sediment when one-third of the sediment storage capacity, not total pond capacity, is lost to sediment accumulation. This volume shall be marked on the riser or by setting a marked post near the riser.

3. For effective trapping efficiency, the sediment delivery inlets should be at the upper end of the basin.
4. For effective trapping efficiency, the length-width ratio of the basin shall be at least 2:1. If the length-width ratio is not at least 2:1, the flow length shall be increased with the use of baffles installed within the basin.

**CONSTRUCTION SPECIFICATIONS**  
The following types of structures are acceptable under the designated conditions:

**Perforated Half-Round Pipe with Stone Filter** Rt-S

- a. Should be used only in detention ponds with less than 30 acre total drainage area.
- b. Never to be used on exposed pipe end or winged headwall.
- c. Diameter of half-round pipe should be 1.5 times the diameter of the principal pipe outlet or wider than the greatest width of the concrete weir.
- d. Perforations and stone sizes are shown in Figure 6-26.1.
- e. Shall be affixed by specified means (bolts, etc) to concrete outlet structure.

**Slotted Board Dam with Stone or Filter Fabric** Rt-B

- a. Can be used in detention ponds with drainage areas up to 100 acres, and on roadway drainage structures with drainage areas less than 30 acres.
- b. Can be used with open end pipe outlets, winged headwalls, or concrete weir outlets.
- c. Should be installed with minimum size 4x4 inch posts.
- d. Boards should have 0.5-1.0 inch space between them.
- e. Minimum size 3-4 inch stone filter or approved filter fabric shall be installed around the upstream side of the board dam.



Example of Slotted Board Dam

**Silt Control Gate** Rt-Sg

The silt control gate may be used for temporary sediment storage on linear construction projects including roadway construction or maintenance, and utility installation. The following specifications shall apply:

- a. Shall only be used on roadway drainage structures with the following inlets: winged headwalls, tapered headwalls, straight headwalls, open end pipes, or flared end sections.
- b. Drainage area to the silt control gate shall not exceed 50 acres, and the disturbed area of the basin shall not exceed 5 acres.
- c. Post shall be 4"x4" treated lumber, and face boards shall be 2"x6" treated lumber with no

spacing allowed between the boards.

- d. An approved silt fence fabric shall be securely fastened to the front of the structure using staples or nails.
- e. Sediment shall be removed and properly disposed of when it reaches one-third the height of the silt gate. Filter fabric shall be replaced when damaged or deteriorated.
- f. Silt control gates should not be used as perimeter control alone, but instead be part of a treatment train that allows the drainage structure to discharge through another barrier before leaving the project.

All disturbed areas shall be vegetated immediately after construction with permanent vegetation. Refer to Ds3 and Ds4 - Disturbed Area Stabilization (With Permanent Vegetation) and Disturbed Area Stabilization (With Sodding) and Ss - Slope Stabilization.

**MAINTENANCE**  
Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been lost. Structures are temporary and shall be removed when disturbed areas have been permanently stabilized.

**PERFORATED HALF-ROUND PIPE WITH STONE FILTER**

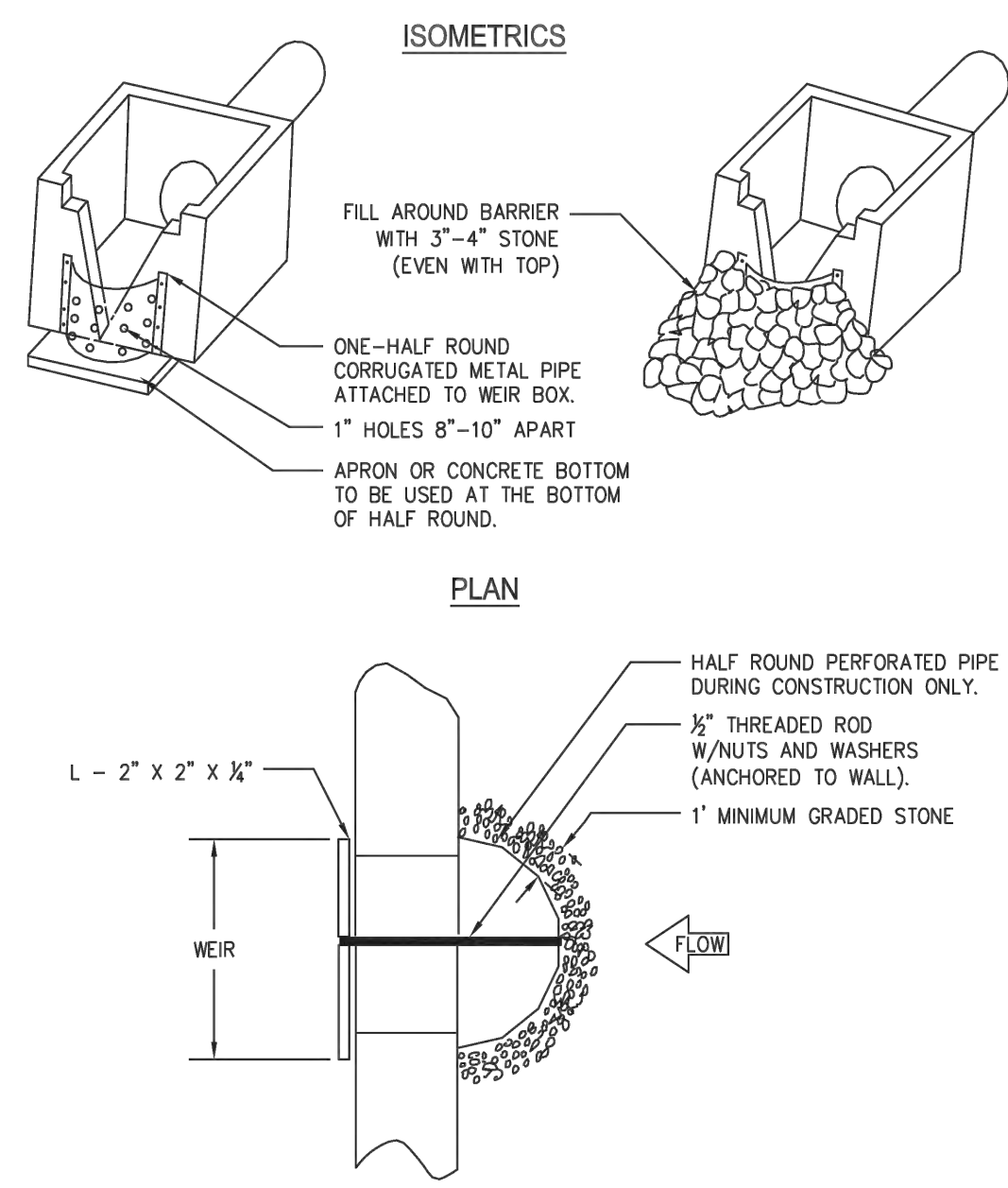


Figure 6-26.1 Perforated Half-Round Pipe with Stone Filter

**Channel Stabilization** Ch



**DEFINITION**  
Improving, constructing or stabilizing an open channel for water conveyance.

**PURPOSE**  
Open channels are constructed or stabilized to be non-erosive, with no sediment deposition and to provide adequate capacity for flood water, drainage, other water management practices, or any combination thereof.

**CONDITIONS**  
This standard applies to the improvement, construction or stabilization of open channels and existing ditches with drainage areas less than one square mile. This standard applies only to channels conveying intermittent flow, not to channels conveying a continuous, live stream.

An adequate outlet for the modified channel length must be available for discharge by gravity flow. Construction or other improvements of the channel should not adversely affect the environmental integrity of the area and must not cause significant erosion upstream or flooding and/or sediment deposition downstream.

**DESIGN CRITERIA**  
**Planning**  
The alignment and design of channels shall give careful consideration to the preservation of valuable fish and wildlife habitat and trees of significant value for wildlife food or shelter or for aesthetic purposes.

Where channel construction will adversely affect significant fish or wildlife habitat, mitigation measures should be included in the plan. Mitigation measures may include pools, riffles, flats, cascades or other similar provisions.

As many trees as possible are to be left inside channel rights-of-way considering the requirements of construction, operation, and maintenance.

Unusually large or attractive trees shall be preserved.

**Realignment**  
The realignment of channels shall be kept to an absolute minimum and should be permitted only to correct an adverse environmental condition.

**Channel Capacity**  
The capacity for open channels shall be determined by procedures applicable to the purposes to be served.

**Hydraulic Requirements**  
Manning's formula shall be used to determine velocities in channels. The "n" values for use in this formula shall be estimated using currently accepted guides along with knowledge and experience regarding the conditions. Acceptable guides can be found in hydrology textbooks.

**Channel Cross-Section**  
The required channel cross-section and grade are determined by the design capacity, the materials in which the channel is to be constructed, and the requirements for maintenance. A minimum depth may be required to provide adequate outlets for subsurface drains and tributary channels.

**Channel Stability**  
All channel construction, improvement and modification shall be in accordance with a design expected to result in a stable channel that can be maintained.

**Characteristics of a Stable Channel**

1. Aggradation or degradation does not interfere with the function of the channel or affect adjacent areas.

2. The channel banks do not erode to the extent that the channel cross-section is changed appreciably.
3. Excessive sediment bars do not develop.
4. Excessive erosion does not occur around culverts, bridges or elsewhere.
5. Gullies do not form or enlarge due to the entry of uncontrolled surface flow to the channel.
6. The determination of channel stability considers "bankfull" flow. Bankfull flow is defined as flow in the channel that creates a water surface that is at or near normal ground elevation for a significant length of a channel reach. Excessive channel depth created by cutting through high ground should not be considered in determinations of bankfull flow.

**CHANNEL LININGS AND STRUCTURAL MEASURES**

Where channel velocities exceed safe velocities for vegetated lining due to increased grade or a change in channel cross-section, or where durability of vegetative lining is adversely affected by seasonal changes, channel linings of rock, concrete or other durable material may be needed. Grade stabilization structures may also be needed.

The following categories for flow velocities shall apply when selecting the channel lining:

**Category 1 (less than 5 ft/sec)** Ch-1

**Vegetated Lining**  
A vegetated lining may be used to stabilize channels with a velocity of less than five ft/sec. The erosion control blankets or sod shall be used on all channels and concentrated flow areas to aid in the establishment of the vegetated lining. Refer to specifications Ds3 - Disturbed Area Stabilization (With Permanent Vegetation), Ds4 - Disturbed Area Stabilization (With Sodding), and Ss - Slope Stabilization, Hydraulic Erosion Control Products (HECPs) are not intended to be applied in channels, swales or other areas where concentrated flows are anticipated, unless installed in conjunction with Rolled Erosion Control Products (RECPs).

**Category 2 (greater than or equal to 5 ft/sec but less than 10 ft/sec)** Ch-2

**Turf Reinforcement Matting**  
Turf Reinforcement Matting (TRM) shall be used, if a vegetated lining is used in channels with velocities greater than or equal to 5 feet/sec but less than 10 ft/sec. TRM is permanent geosynthetic erosion control matting that is used in channels to stabilize the soil while permanent vegetation is rooting, and to provide additional long-term protection.

Velocities in channels when flowing at the bankfull discharge or the 25-year frequency discharge, whichever is the greater, shall be used in determining the appropriate TRM for stabilization of the channels.

**Rock Riprap Lining**

Riprap shall be designed to resist displacement when the channel is flowing at the bankfull discharge or 25-year frequency discharge, whichever is the greater. Rock riprap lining should be used when channel velocities are greater than or equal to 5 ft/sec but less than 10 ft/sec.

Dumped and machine placed riprap should not be installed on slopes steeper than 1:1.2 horizontal to 1 vertical. Rock shall be dense, resistant to the action of air and water, and suitable in all other respects for the purpose intended. Rock shall be installed according to standards specified in Riprap, Appendix C.

**Category 3 (greater than or equal to 10 ft/sec)** Ch-3

**Concrete Lining**  
If a channel has velocities high enough to require a concrete lining (when channel velocities exceed 10 ft/sec), methods should be utilized to reduce the velocity of the runoff and reduce erosion at the outlet - a common problem created by the smooth, concrete lining. Refer to specification St - Storm Drain Outlet Protection for information regarding energy dissipators.

If a concrete lining is chosen, it shall be designed according to currently accepted guides for structural and hydraulic adequacy. It must be designed to carry the required discharge and to withstand the loading imposed by site conditions. A separation geotextile should be placed under concrete linings to prevent undermining in the event of stress cracks due to settlement of the base material. The separation geotextile will keep the base material soils in place and minimize the likelihood of a system failure.

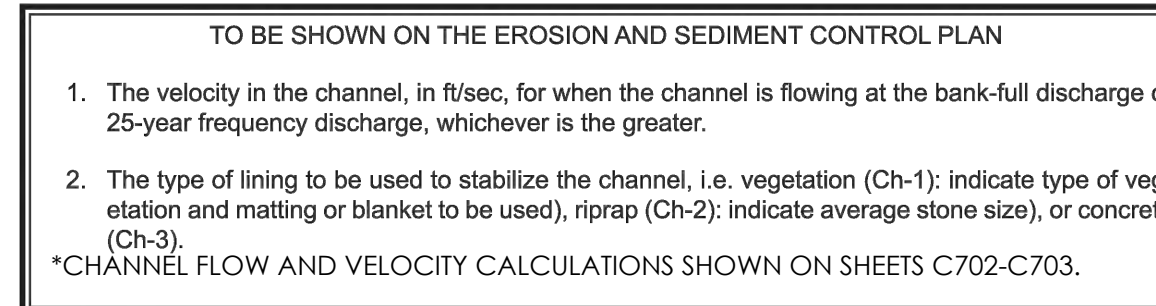
**Category 3 (greater than or equal to 10 ft/sec)** Ch-3

**Grade Stabilization Structures**  
Grade stabilization structures are used to reduce or prevent excessive erosion by reduction of velocities in the watercourse or by providing structures that can withstand and reduce the higher velocities. They may be constructed of concrete, rock, masonry, steel, aluminum, or treated wood.

These structures are constructed where the capability of earth and vegetative measures is exceeded in the safe handling of water at permissible velocities, where excessive grades or overall conditions are encountered or where water is to be lowered structurally from one elevation to another. These structures should generally be planned and installed along with or as a part of other erosion control practices.

The structures shall be designed hydraulically to adequately carry the channel discharge and structurally to withstand loadings imposed by the site conditions. The structure shall meet requirements of Gr - Grade Stabilization Structure.

\* The equivalent shear stress may also be used to determine the appropriate measure.



**Slope Stabilization** Ss



**DEFINITION**  
A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

**PURPOSE**  
To provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate that protects young vegetation and promotes its establishment. If using slope stabilization to reinforce channels, please refer to specification, Ch - Channel Stabilization.

**CONDITIONS**  
Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

**PLANNING CONSIDERATIONS**  
Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

**Roller Erosion Control Products (RECP)**  
A natural fiber blanket with single or double photodegradable or biodegradable nets.

**Hydraulic Erosion Control Products (HECP)**  
HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil surfaces. Paper mulch should not be used for erosion control.

**CRITERIA**

Roller Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):  
-Installation and staking of RECPs and application rates for the HECPs shall conform to manufacturer's guidelines for application.

-Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5ft/sec on slopes 3:1 or greater with a height of 10 feet or greater.

**Materials - HECP**  
Hydraulic erosion control products shall be packaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fiberous components should be all natural or photodegradable.

Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

**Materials - RECP**  
Blankets shall be nontoxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At minimum, the plastic or biodegradable netting shall be stitched to the fibrous matrix to maximize strength and provide for ease of handling.

RECPs are categorized as follows:

**a. Short-Term**  
(functional longevity 12 mo.)

- i. Photodegradable  
Straw blankets with a top and bottom side photo degradable net. The maximum size of the mesh should be openings of 1/2" X 1/2". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

- ii. Biodegradable  
Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are

twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

**b. Extended-Term**  
(functional longevity 24 mo.)

**i. Photodegradable**  
Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

**ii. Biodegradable**  
Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

**c. Long-Term**  
(functional longevity 36 mo.)

**i. Photodegradable**  
Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

**ii. Biodegradable**  
Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

**NOTES**  
It is the intention of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

**Site Preparation**  
After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any surface material that will prevent contact of the soil stabilization mat with the soil surface. Foreign matter must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

**MAINTENANCE**  
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

**TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)**

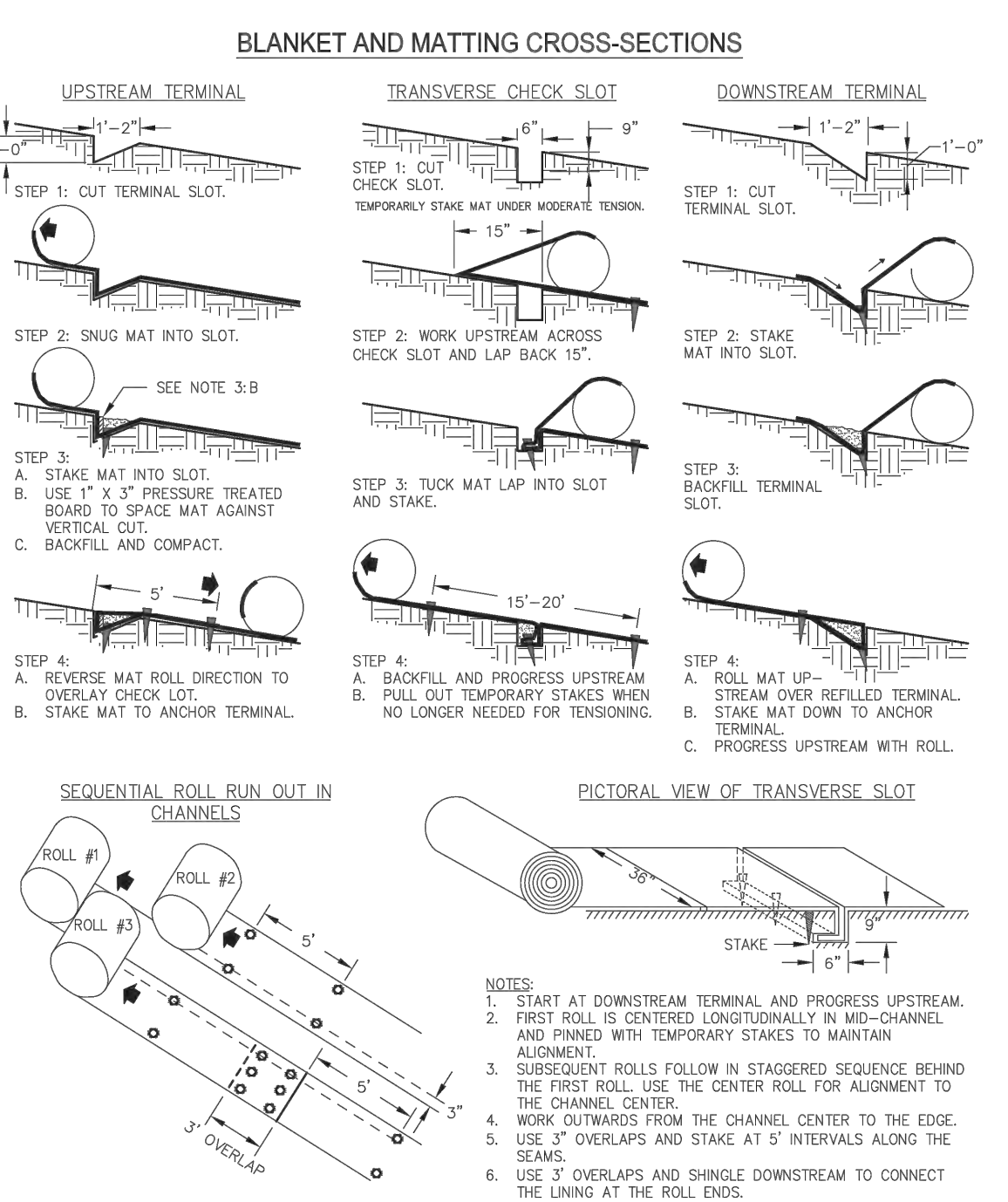


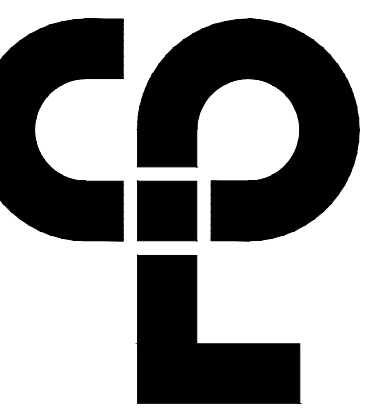
Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

REV.	DATE	DESCRIPTION
1	01-24-2022	ISSUE FOR COMMENT #1
2	02-03-2022	ISSUE FOR COMMENT #2
3	02-09-2022	ISSUE FOR COMMENT #3
4	03-27-2022	ISSUE FOR COMMENT #4









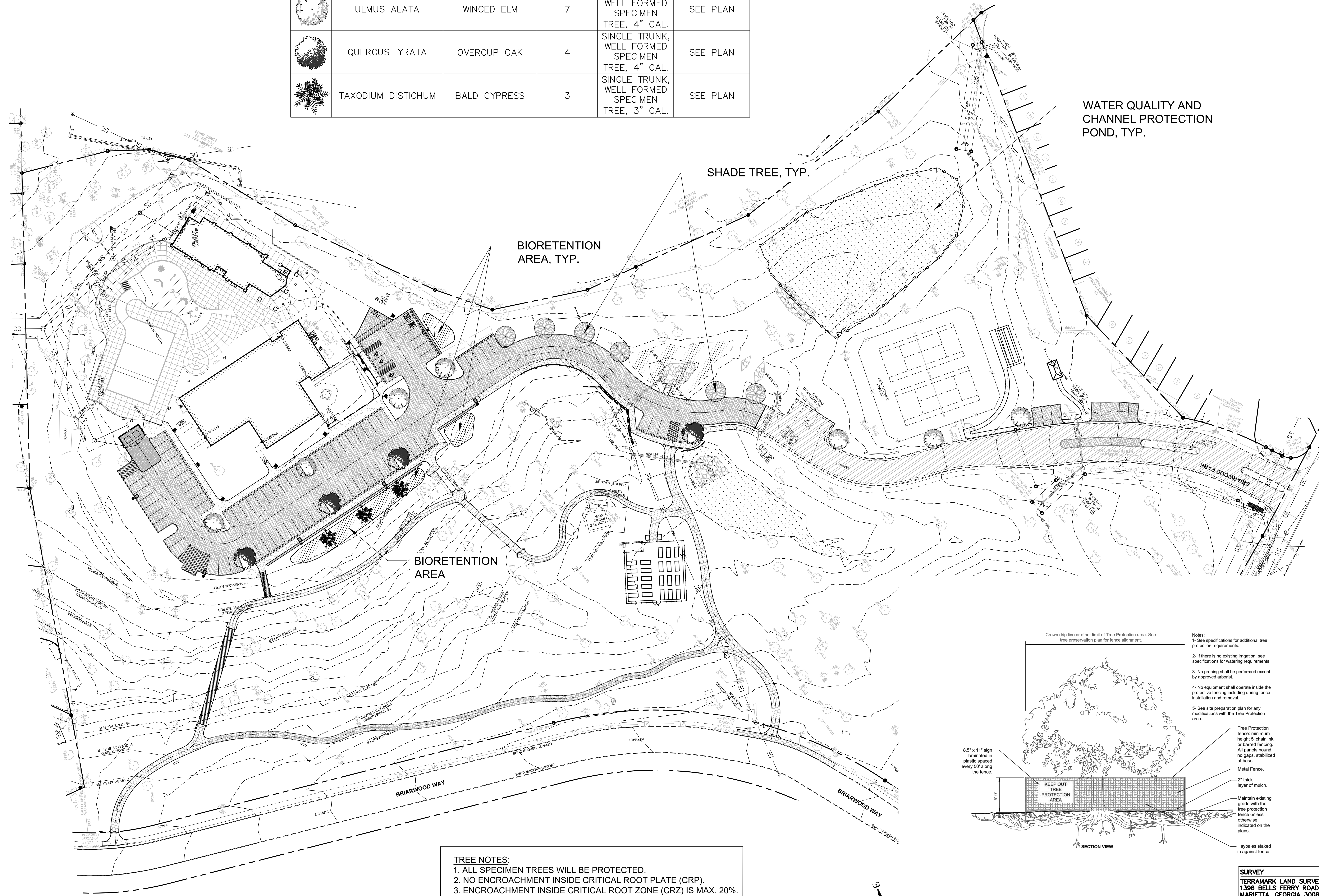
PLANT MATERIAL SCHEDULE					
SYMBOL	SCIENTIFIC NAME	COMMON NAME	COUNT	SIZE	SPACING
	NYSSA SYLVATICA	TUPELO (BLACK GUM)	17	SINGLE TRUNK, WELL FORMED SPECIMEN TREE, 4" CAL.	SEE PLAN
	ULMUS ALATA	WINGED ELM	7	SINGLE TRUNK, WELL FORMED SPECIMEN TREE, 4" CAL.	SEE PLAN
	QUERCUS IYRATA	OVERCUP OAK	4	SINGLE TRUNK, WELL FORMED SPECIMEN TREE, 4" CAL.	SEE PLAN
	TAXODIUM DISTICHUM	BALD CYPRESS	3	SINGLE TRUNK, WELL FORMED SPECIMEN TREE, 3" CAL.	SEE PLAN

**PROJECT INFORMATION**

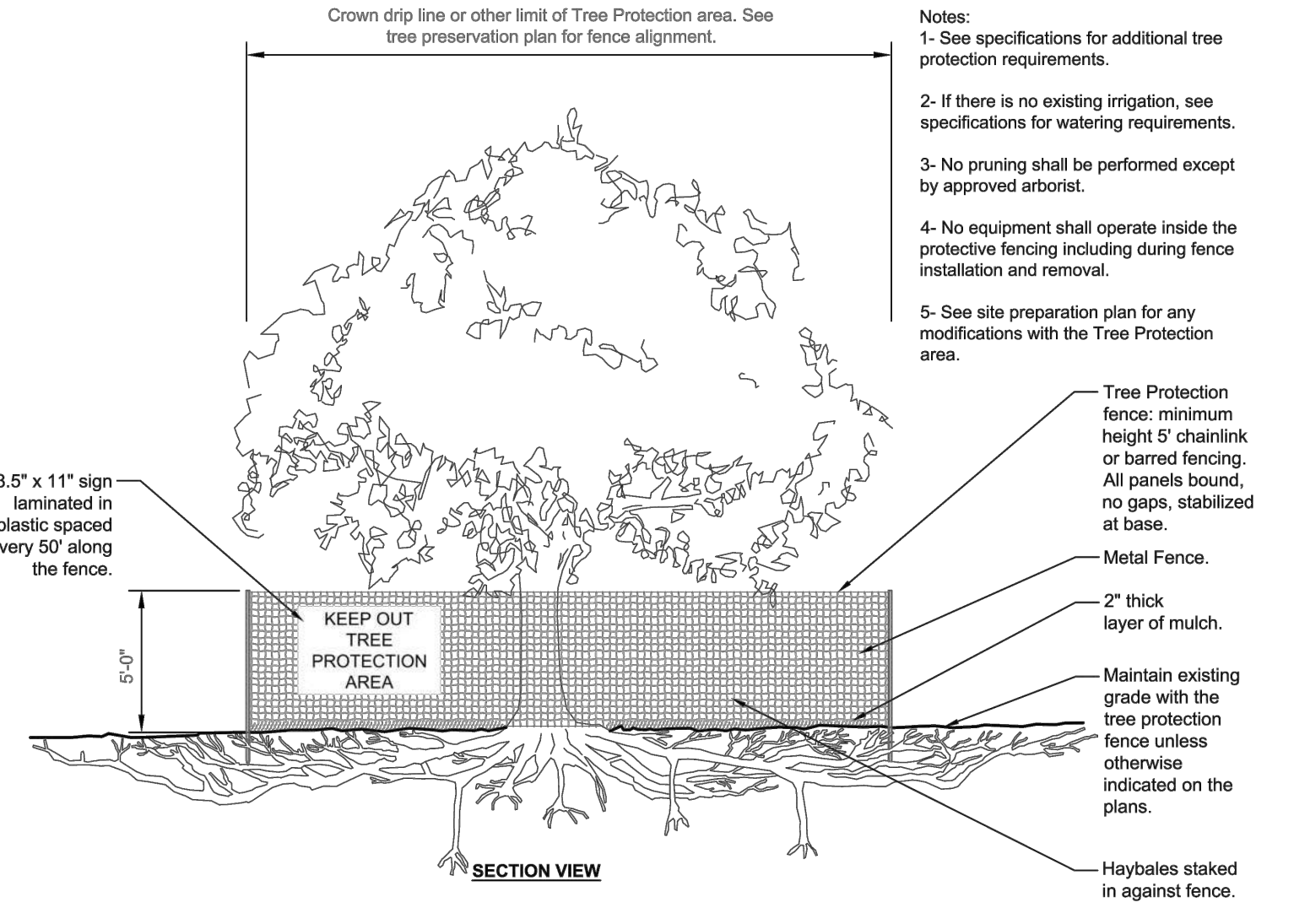
Sheet Number: 15991.00  
Client Name: CITY OF BROOKHAVEN  
Project Name: BRIARWOOD PARK  
Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

1. 01-24-2023 20230202  
2. 01-24-2023 LDP CIP COMMENT #1  
3. 02-03-2023 BUILDING PERMIT  
4. 02-03-2023 LDP CIP COMMENT #2  
5. 02-27-2023 LDP CIP COMMENT #3



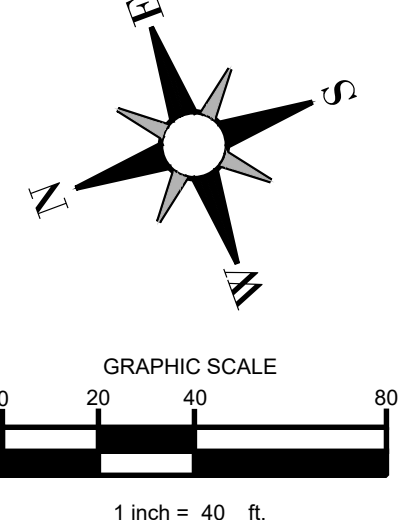
**TREE NOTES:**  
1. ALL SPECIMEN TREES WILL BE PROTECTED.  
2. NO ENCROACHMENT INSIDE CRITICAL ROOT PLATE (CRP).  
3. ENCROACHMENT INSIDE CRITICAL ROOT ZONE (CRZ) IS MAX. 20%.  
4. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS.



- Notes:**
- 1- See specifications for additional tree protection requirements.
  - 2- If there is no existing irrigation, see specifications for watering requirements.
  - 3- No pruning shall be performed except by approved arborist.
  - 4- No equipment shall operate inside the protective fencing including during fence installation and removal.
  - 5- See site preparation plan for any modifications with the Tree Protection area.

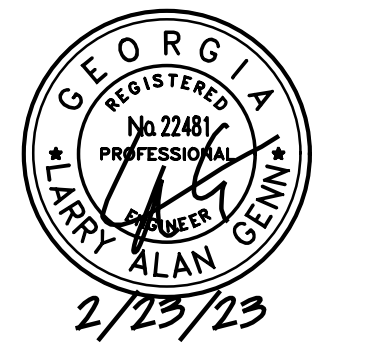
Tree Protection fence: minimum height 5' chainlink or barred fencing. All panels bound, no gaps, stabilized at base.  
Metal Fence.  
2" thick layer of mulch.  
Maintain existing grade with the tree protection fence unless otherwise indicated on the plans.  
Haybales stacked in against fence.

(A) TREE PROTECTION FENCE NOTES



**SURVEY**  
TERRAMARK LAND SURVEYING, INC.  
1306 BELLS FERRY ROAD  
MARIETTA, GEORGIA 30066  
PHONE NO. (770) 421-1927  
FAX NO. (770) 421-0552  
WWW.TERRAMARK.COM  
C. O. A.# LSF000810

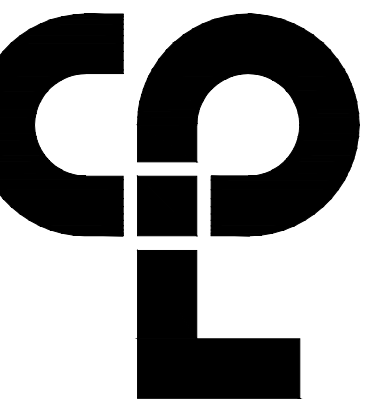
**GEORGIA811**  
Utilities Protection Center, Inc.  
1-800-282-7411  
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Created By: LAD  
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CPL | Architecture Engineering Planning  
3011 SUTTON GATE DR. SUITE 130  
SUWANEE, GA 30024  
CPLteam.com

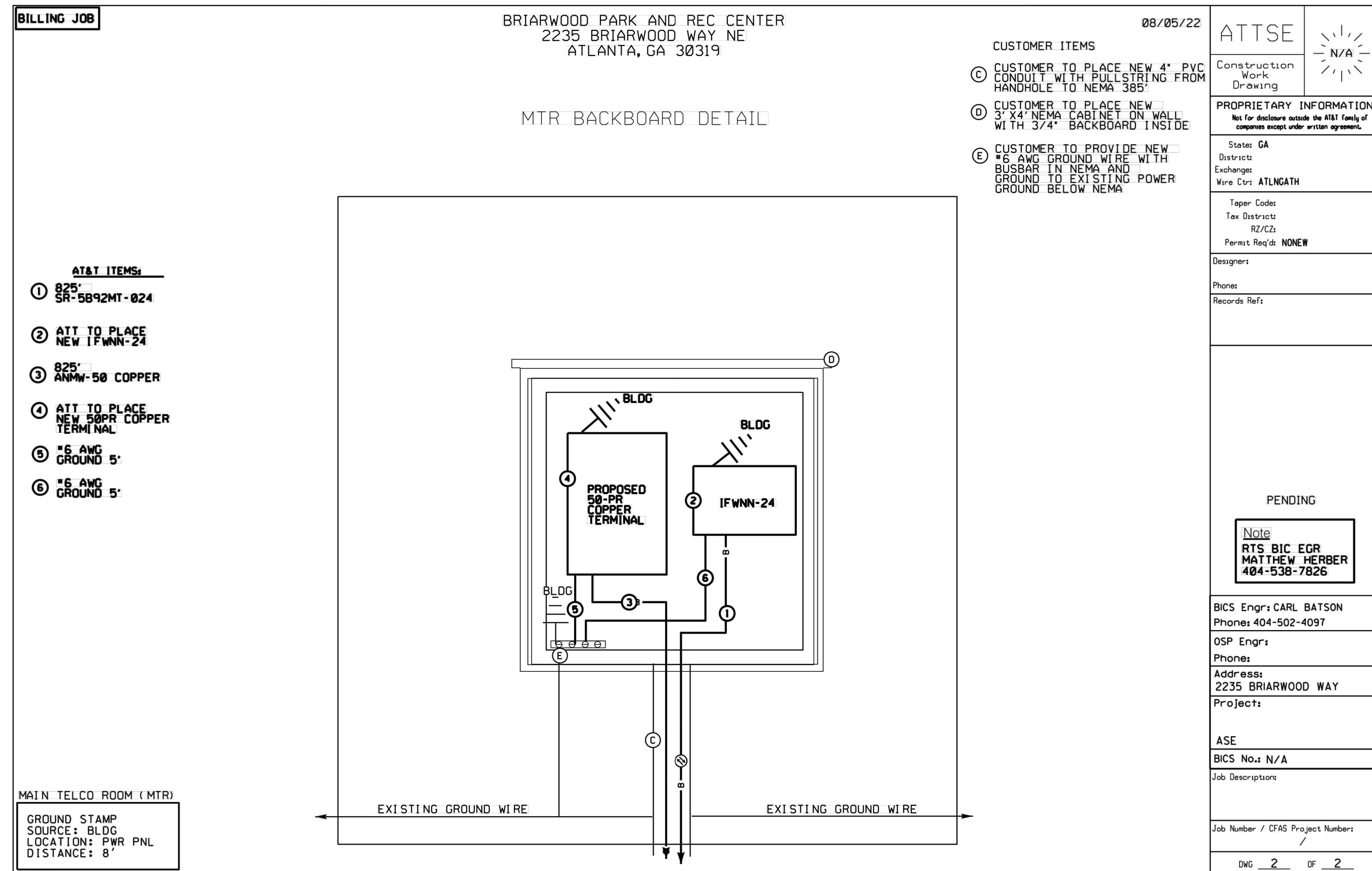
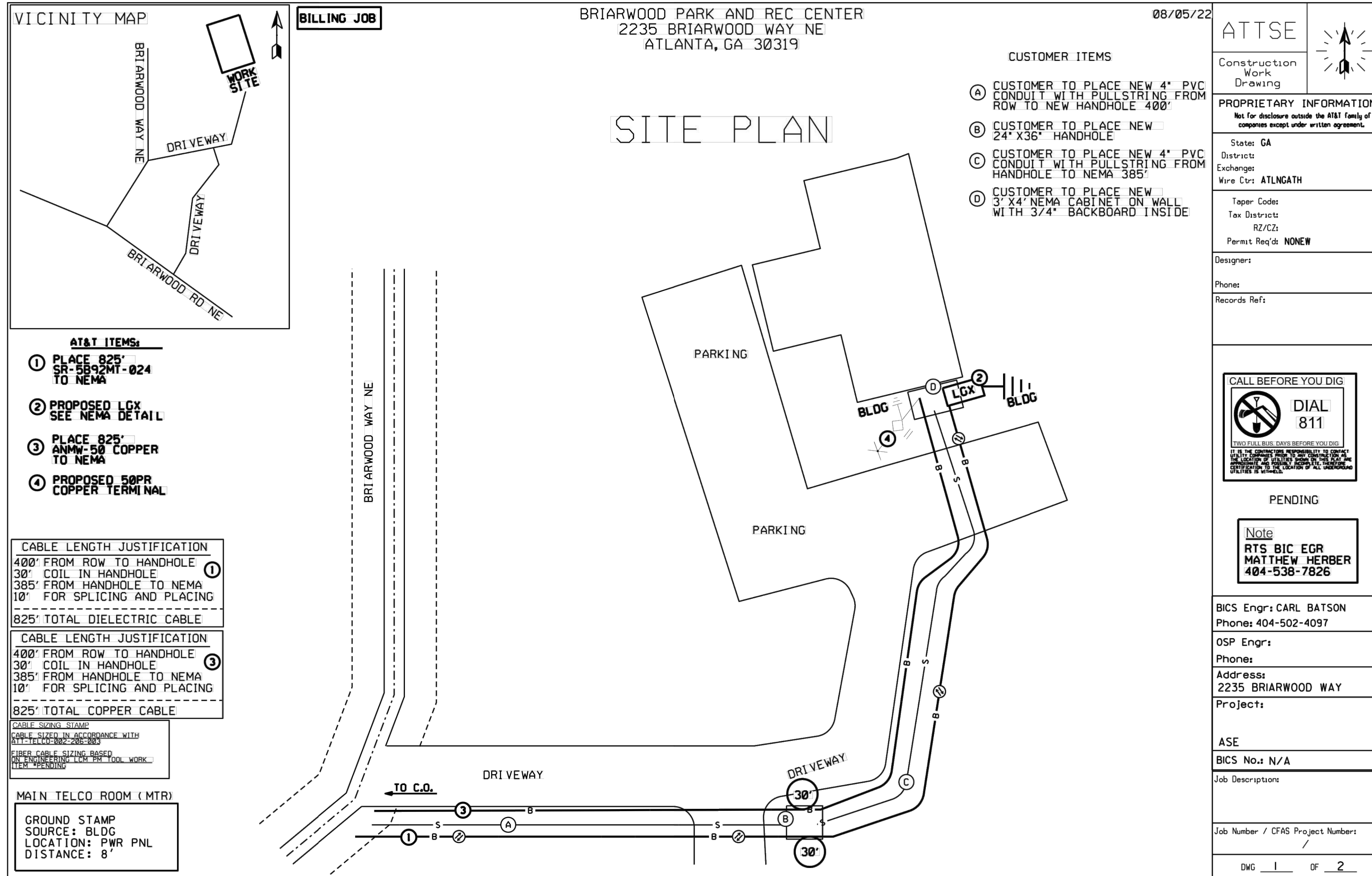
**PROJECT INFORMATION**  
Project Number: 15991.00  
Client Name: CITY OF BROOKHAVEN

Project Name: BRIARWOOD PARK

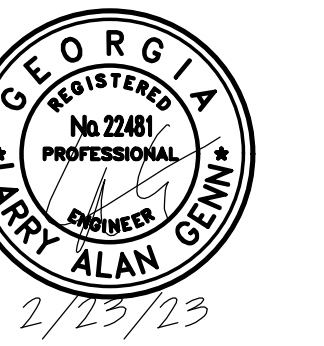
Project Address: 2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Rev.	Date	Description
1	01-24-2023	LDP CFI COMMENT #1
2	02-02-2023	BIDDING PERMIT
3	02-02-2023	LDP CFI COMMENT #2
4	03-27-2023	LDP CFI COMMENT #3



AT&T



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**SHEET INFORMATION**

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Created By: LAG  
Drawing Title: AT&T PLAN

ATT-01

SHEET # 52 PLAN 04/28/2023  
Permit # LDP22-00019

Plotted By: Catherine Newberry

Date last plotted: 3/27/2023 2:42 PM

Date last accessed: 3/27/2023 12:46 PM

Sheet Size: 30x42  
Drawing Name: S:\Project\Brookhaven\_CAD\CAD\AutoCAD\BRIARWOOD PARK\BRIARWOOD PARK\_Electrical\Plan.dwg

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	9	B	SINGLE	0.850	PMM-F02-LED-E-U-SL4	55

Label	CalcType	Units	Avg	Max	Min	Avg/Min
parking	illumiance	Fc	1.53	3.4	0.4	3.83

LumNo	Label	X	Y	Z	Orient	Tilt
1	A	2247317	1400623	25	90	0
2	A	2247038	1400582	25	90	0
3	A	2247139	1400582	25	90	0
4	A	2247239	1400569	25	90	0
5	A	2247269	1400701	25	180	0
6	A	2246940	1400634	25	0	0
7	A	2246924	1400728	25	0	0
8	B	2247229	1400780	12	270	0
9	B	2246994	1400762	12	230	0
10	B	2247016	1400714	12	180	0
11	B	2247012	1400663	12	270	0
12	B	2247069	1400663	12	270	0
13	B	2247128	1400664	12	270	0
14	B	2247184	1400668	12	270	0
15	B	2247192	1400719	12	0	0
16	B	2247192	1400754	12	60	0



DESCRIPTION	Catalog #	Type
The Navion™ area, site and roadway LED luminaires combines world class optical performance, energy efficiency, and outstanding versatility to meet the requirements of any area, site or roadway lighting application. Patented AccuLED Optics™ technology delivers unparalleled uniformity. Heavy duty construction and easy installation features make the Navion luminaire the right choice for site lighting applications and municipal streets. UL/ULC listed for wet locations, optional IP66 enclosure rating available.		

**CONSTRUCTION**  
Heavy duty, cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door for easy maintenance. 3G vibration rated.

**ELECTRICAL**  
LED drivers are mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V, 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only.

**FINISH**  
Housing and cast parts finished in five-stage super TDC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fading and wear. LightBARK™ cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. DALI and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

**WARRANTY**  
Five-year warranty.



NAV NAVION  
1-4 Light Squares  
LED  
AREA / SITE / ROADWAY  
LUMINAIRE

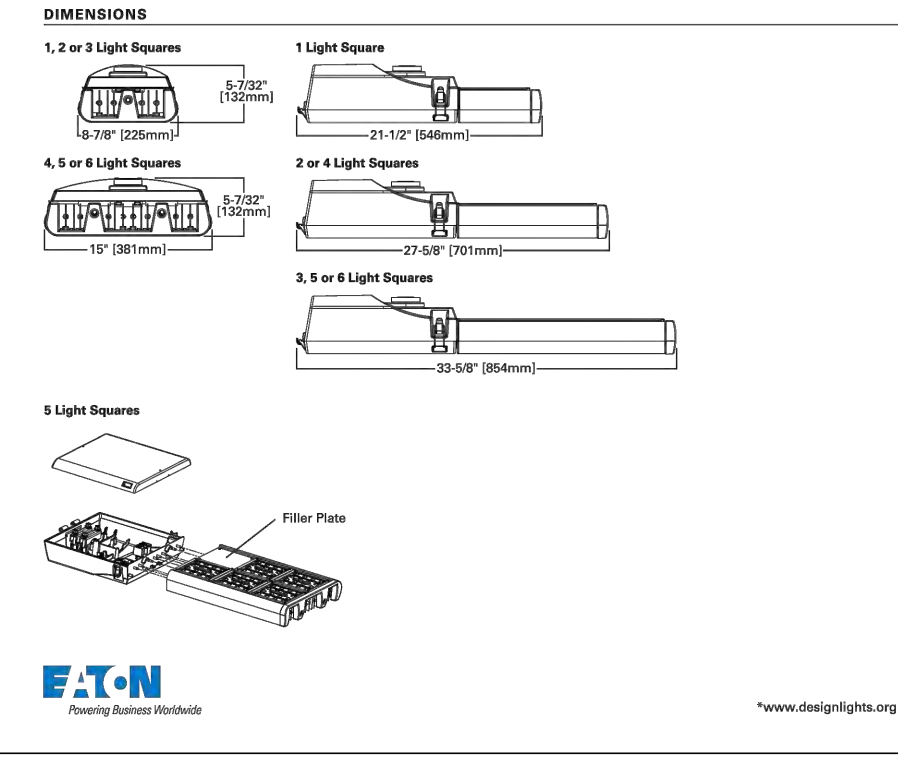


CERTIFICATION DATA
UL/ULC Wet Location Listed
IP66
IP69K Light Squares
3G Vibration Rated
DesignLight Consortium™ Qualified*

ENERGY DATA
Shuntless LED Driver
<2% Power Loss
<0.5% Total Harmonic Distortion
120-277V 60Hz to 347V 60 Hz, 480V 60 Hz
40°C Minimum Temperature
40°C Ambient Temperature Rating

EPA Effective Projected Area (Sq. Ft.) (Plumes only)
1 Square 1.0
2 Square 1.2
3 Square 1.3
4 Square 1.4
5 Square 1.4
6 Square 1.4
7 Square 1.4
8 Square 1.4

SHIPPING DATA
Approximate Weight
1 Square 17 lbs. (7.7 kg)
2 Square 23 lbs. (10.4 kg)
3 Square 28 lbs. (12.7 kg)
4 Square 34 lbs. (15.4 kg)
5 Square 38 lbs. (17.2 kg)
6 Square 42 lbs. (19.0 kg)



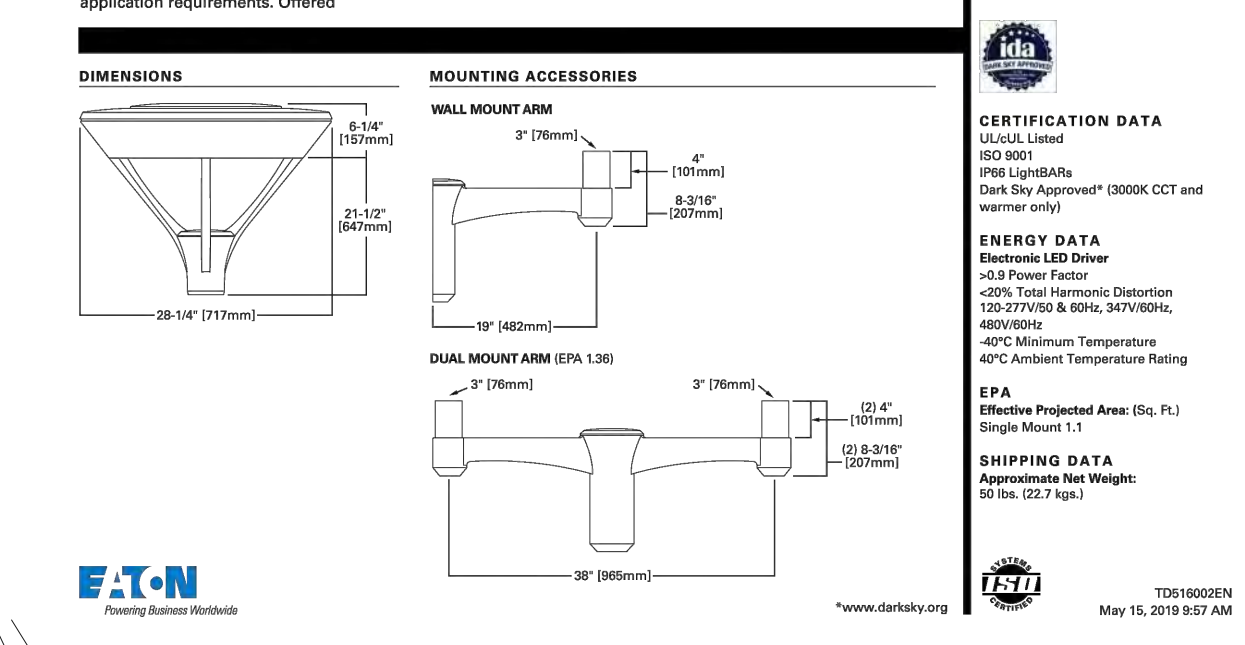
FIXTURE A

DESCRIPTION	Catalog #	Type
The geometric form of Mesa luminaire allows it to adapt to either contemporary or traditional architectural settings. Available in single or twin pole mount configurations with optional wall-mounting capability, the Mesa luminaires mounting options allow for harmonized site design whether at the entrance or in the parking lot. UL/ULC listed for use in wet locations.		

**CONSTRUCTION**  
HOUSING: Die-cast aluminum main housing and spider mount base maintain a minimum 0.125 wall thickness. Integral aluminum heat sink provides superior thermal heat transfer in +40°C ambient environments. DOOR ASSEMBLY: Top mounted, heavy wall, die-cast aluminum door maintains a nominal 0.125 thickness. Door includes a self retaining interior hinge (CASET). Continuous silicone gasket provided to seal housing door assembly and optic tray. LENS: Downtight lens is LED board integrated acrylic over optic, each individually sealed for IP66 rating. HARDWARE: Four inset fasteners on underside of housing provide access to luminaire interior. Concealed, stainless steel four bar hinge lock allows door to lock in the open position.

**ELECTRICAL**  
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficiency, and prolonged life. Standard fasteners on underside of housing provide access to luminaire interior. Concealed, stainless steel four bar hinge lock allows door to lock in the open position.

**OPTICS**  
Choice of twelve patented, high-efficiency AccuLED Optics™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the capability to meet customized application requirements. Offered



FIXTURE B

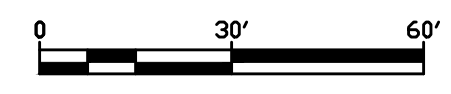
REVISIONS	DATE	DESCRIPTION
ACTION		

DESIGN	SCALE
G. GILLIS	1" = 30'-0"

CHECKED:	DATE
WBMW	08.14.2019

19040	PT-01
W&A JOB NO.	DRAWING NUMBER

1 PHOTOMETRIC PLAN  
PT-01 SCALE: 1"=30'-0"



**Streetworks**

**WOMACK & ASSOCIATES**  
CONSULTING ENGINEERS  
2300 Lake Park Dr. Suite 250  
Smyrna, Georgia 30080  
Voice: 770-458-8388  
COA #PEF066530  
EXP - 06/30/2020

Womack & Associates, 2019. This drawing may be utilized only for the purpose of constructing or installing the work shown thereon at the site of the work specified. Any other use of this drawing, including without limitation any reproduction or alteration of this drawing, without the prior written approval of Womack & Associates is prohibited.

**PHOTOMETRIC PLAN**  
**CITY OF BROOKHAVEN**  
**BRIARWOOD PARK**  
2235 BRIARWOOD WAY  
BROOKHAVEN, GEORGIA 30319

**ARCHITECTURE**  
**ENGINEERING**  
**PLANNING**  
CPLTeam.com

DESIGN	SCALE
G. GILLIS	1" = 30'-0"

APPROVED PLAN 04/28/2023  
Permit # LDP22-00019

**LEGEND**

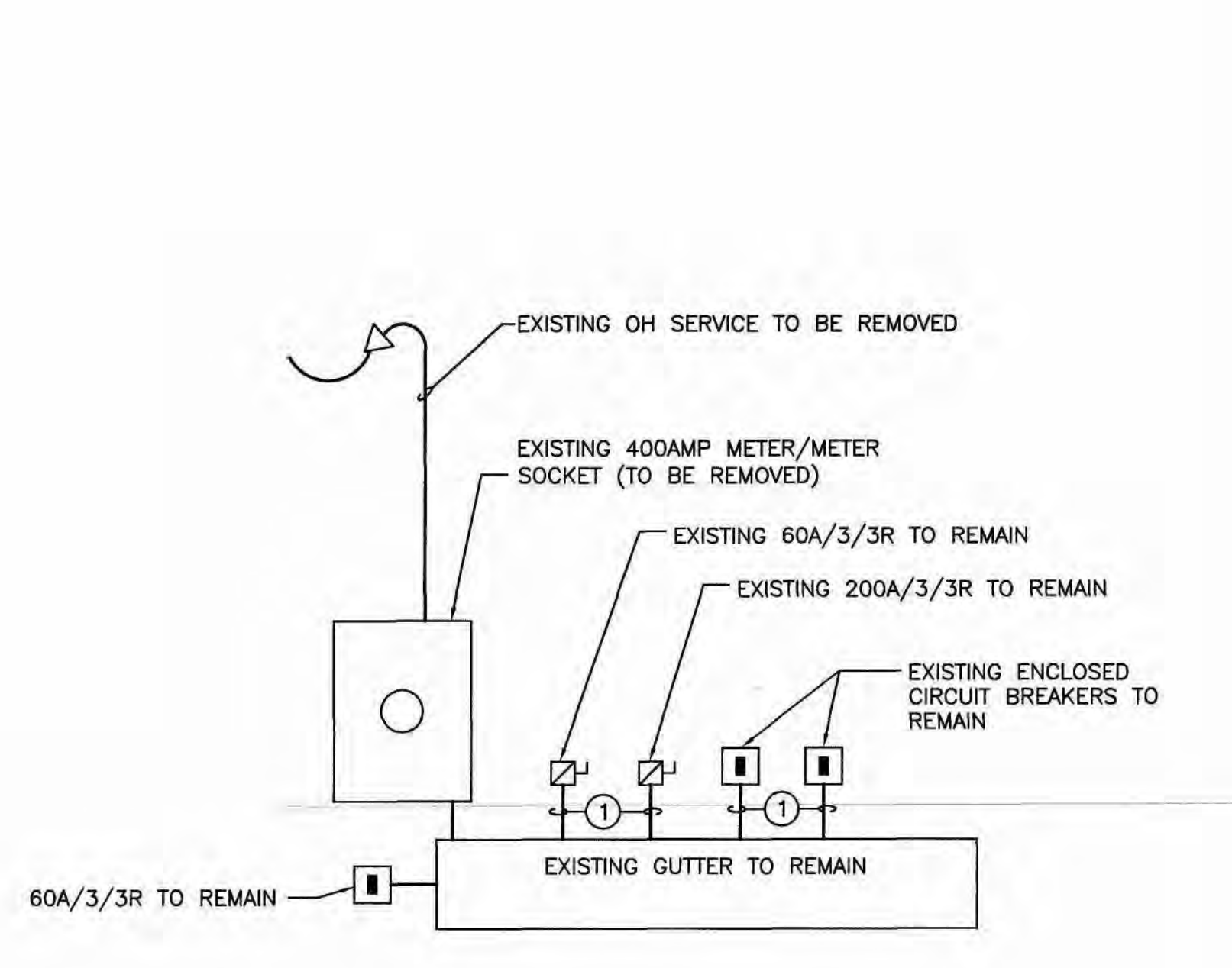
- UNDERGROUND CONDUIT.
- INGROUND J-BOX.
- FUSIBLE DISCONNECT SWITCH, FUSE SIZE OVER FRAME SIZE, NUMBER OF POLES, AND ENCLOSURE TYPE NOTED.
- PANELBOARD.
- TYPICAL FOR REMAINDER OF CIRCUIT.
- AVAILABLE SYMMETRICAL SHORT CIRCUIT CURRENT AT THE EQUIPMENT AS CALCULATED BY THE ENGINEER. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE A FULLY RATED SYSTEM.
- LENGTH OF FEEDER IN FEET.

**WIRING SCHEDULE**

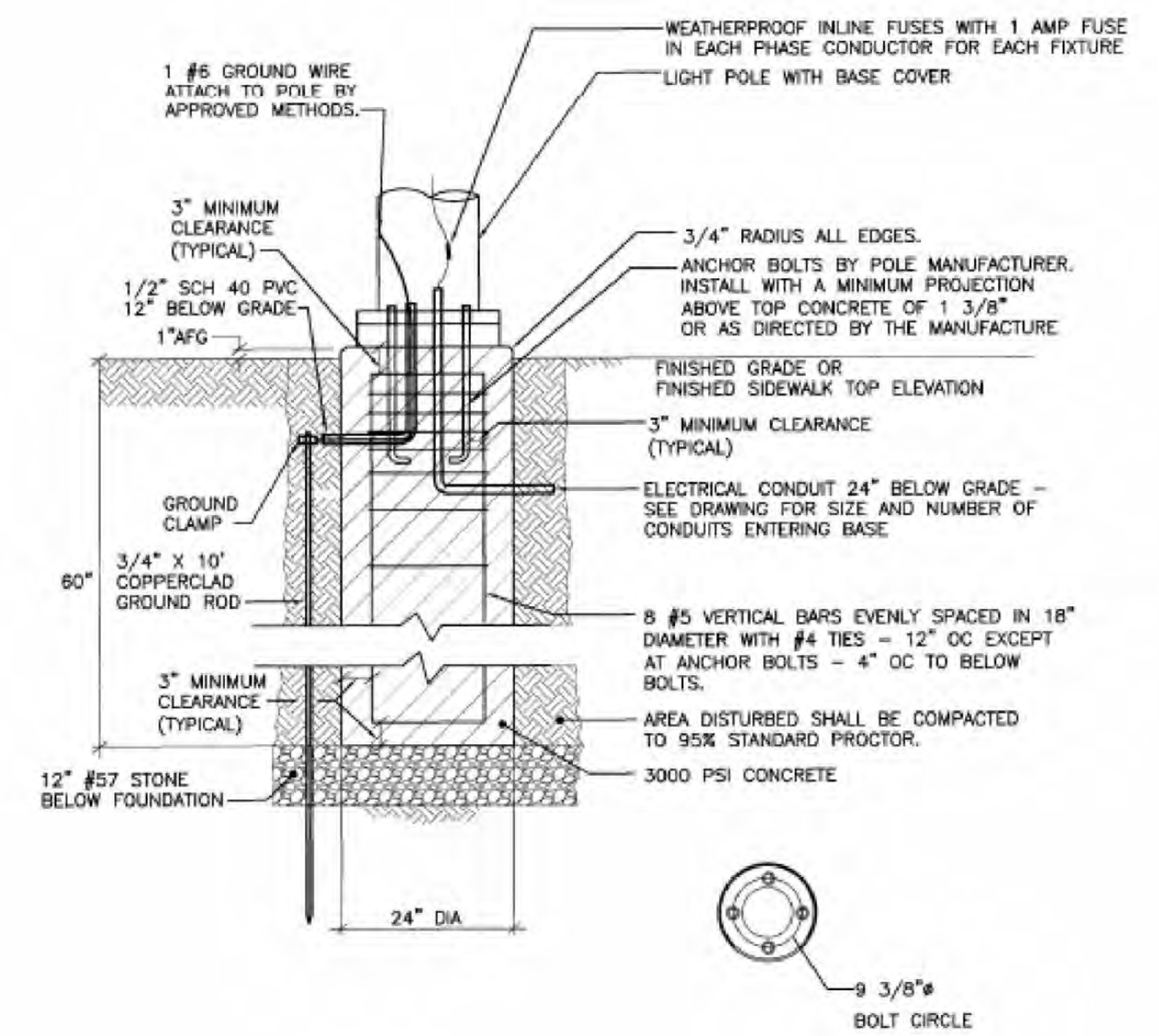
- ① EXISTING CONDUIT/CONDUCTORS TO REMAIN
  - ② 2 RUNS - 2 - 350 KCMIL + 1#1G IN 2 1/2" C (EA)
  - ③ 1#2/0 IN 1" PVC C
  - ④ 8#4/0 + 2#2G
  - ⑤ 2#10 + 1#10G IN 3/4" RGS C
  - ⑥ #6
  - ⑦ 2 RUNS - 4#4/0 + 1#2G IN 2 1/2" RGS C (EA)
  - ⑧ 2 RUNS - 2#4/0 + 1#2G IN 2" C (EA)
  - ⑨ 1 1/2" EMPTY C FOR GPCo METER LEADS
- ALL CONDUCTORS ARE TO BE COPPER

**NOTES:**

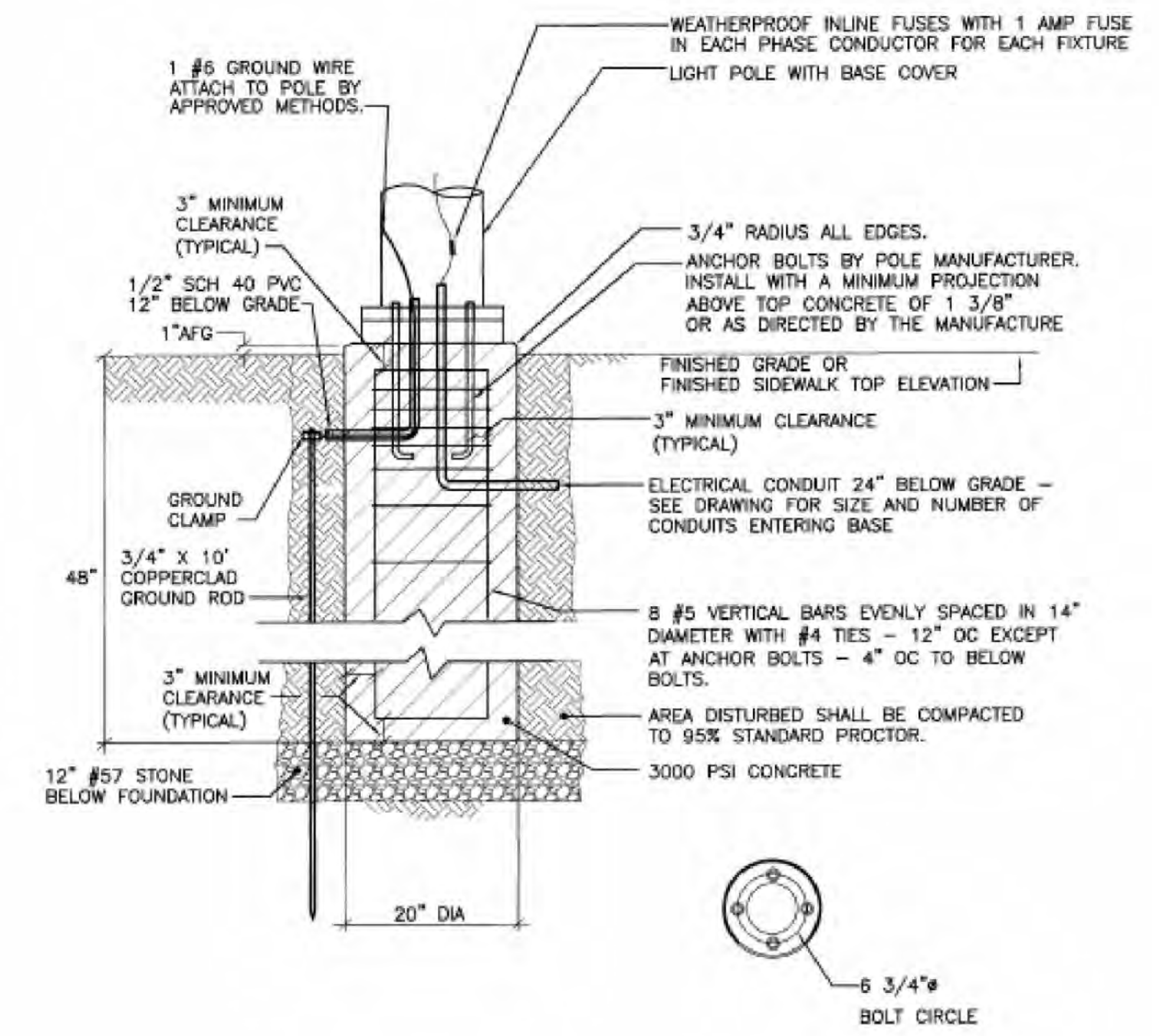
1. CONTRACTOR TO TAP ALL CONDUCTORS WHEN MAKING CONNECTIONS IN THE EXISTING GUTTER AS PER THE NEC. MAKE CONNECTIONS WITH INSULATED MECHANICAL LUGS AS REQUIRED. BOND GROUNDS TO THE GUTTER WITH APPROVED LUGS.
2. CONTRACTOR TO PROVIDE AND INSTALL SPECIAL MANUFACTURED DRY TYPE 1φ TRANSFORMERS. TRANSFORMERS ARE TO BE 208V PRIMARY AND 120/240V SECONDARY. TRANSFORMERS WILL BE TOTALLY ENCLOSED.
3. BOND FRAME OF EACH TRANSFORMER WITH GROUND UP CONDUCTOR. FOR PRIMARY USE #1 AWG COPPER FOR SECONDARY USE #1/0 AWG COPPER.
4. PROVIDE AND INSTALL HOFFMAN TYPE 3R JUNCTION BOX. 48"x36"x16" DEEP SCREW COVER, CAT #A48R3616NK OR EQUAL. REPLACE SCREWS WITH TAMPERPROOF SCREWS. MAKE ALL CONNECTIONS WITH INSULATED MECHANICAL LUGS AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE AND INSTALL FIELD FABRICATED SUPPORTS FOR DISCONNECT SWITCHES AND JUNCTION BOX. SUPPORTS SHALL BE 3" X 3" X 1/4" THICK ANGLE IRON FRAMES, MIN. OF 2 DOWN LEGS AND MINIMUM OF 2 CROSS BRACES. PROVIDE ADDITIONAL LEGS AND CROSS BRACES IF REQUIRED TO STABILIZE THE DEVICES. HOT DIP GALVANIZE COMPLETED FRAMES PRIOR TO INSTALLATION. ALL REQUIRED HARDWARE INCLUDING ALL NUTS, BOLTS, WASHERS, ETC, SHALL BE GALVANIZED STEEL OR STAINLESS STEEL.
6. THE 20 AMP, 2 POLE ENCLOSED CIRCUIT BREAKER AND ALL ASSOCIATED WIRING WILL BE PROVIDED AT A LATER DATE BY OTHERS. SHOWN FOR CLARITY ONLY.



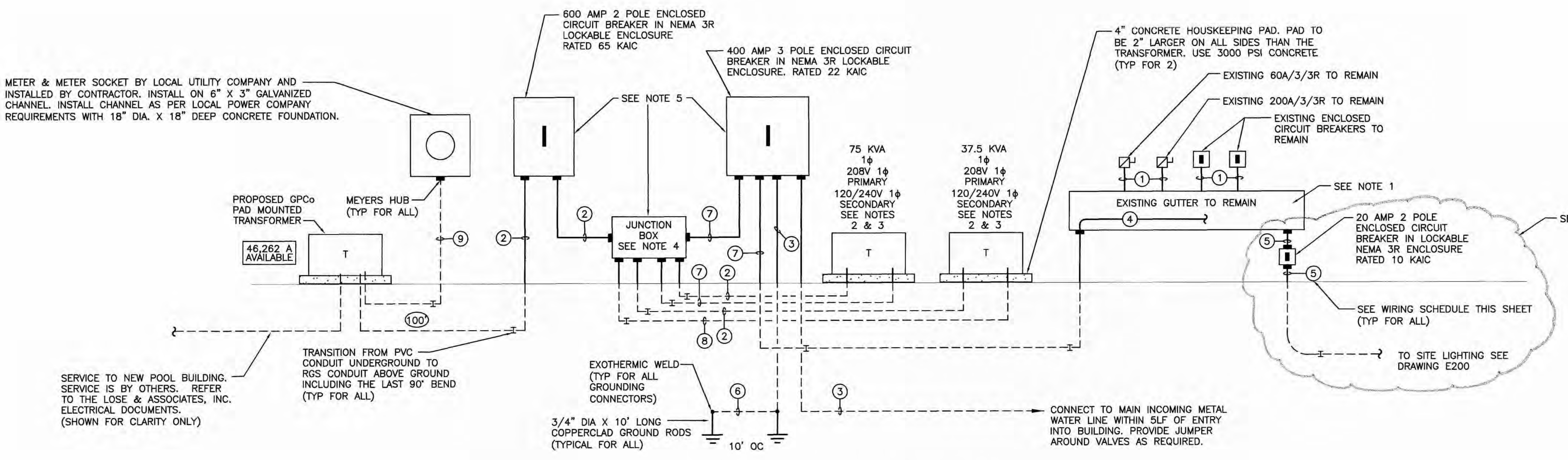
**1 EXISTING ONE LINE DIAGRAM**  
SCALE: NTS



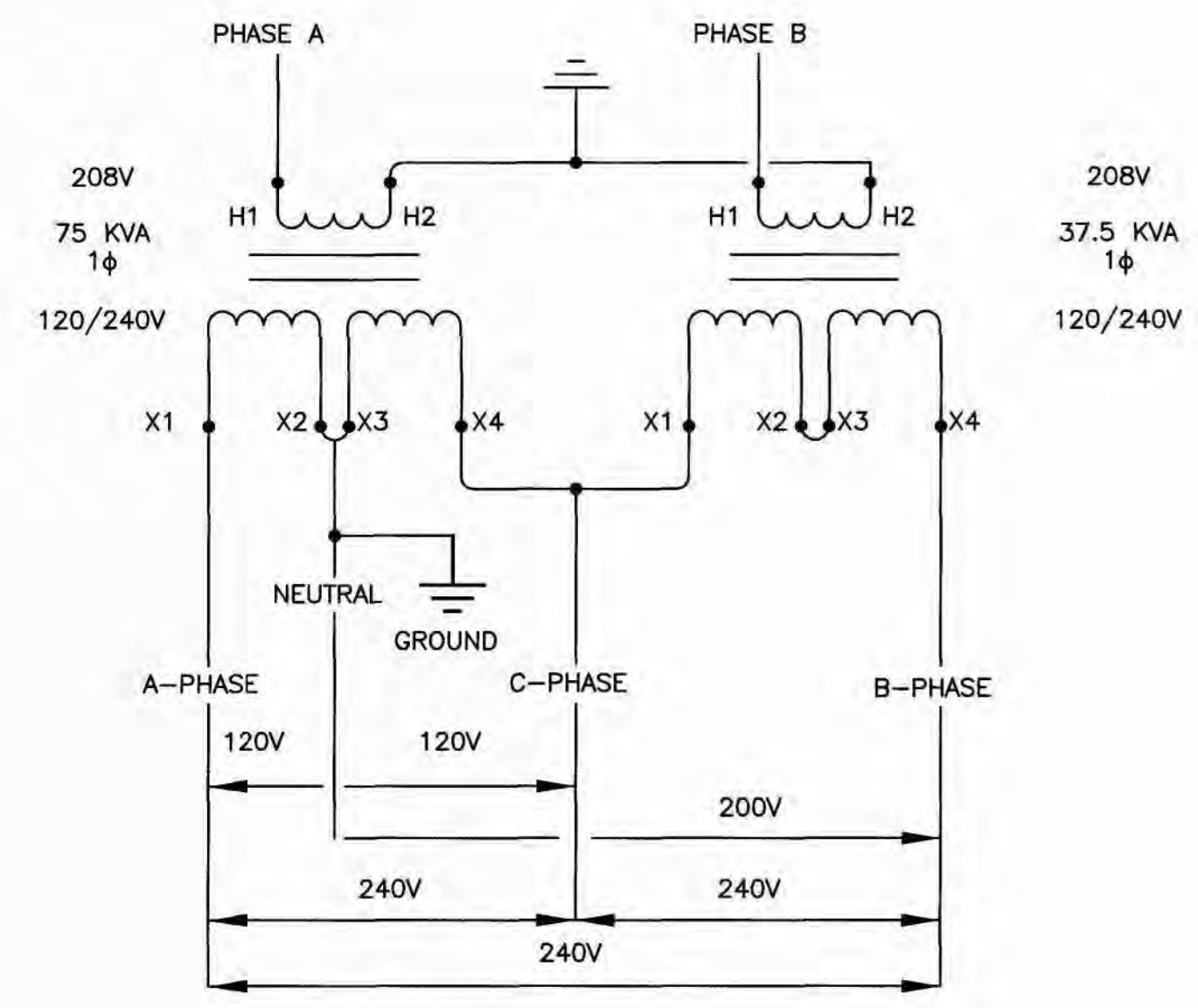
**3 TALL LIGHT BASE - TYP.**  
SCALE: NTS



**4 SHORT LIGHT BASE - TYP.**  
SCALE: NTS



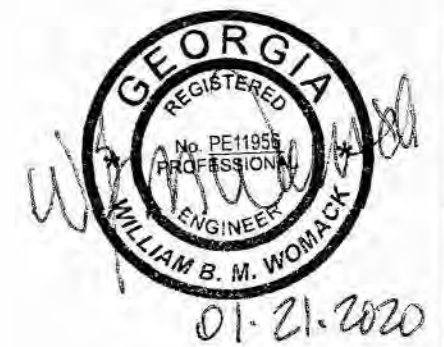
**2 POWER RISER DIAGRAM**  
SCALE: NTS



**5 TRANSFORMER WIRING DIAGRAM**  
SCALE: NTS

**QUANTITY NOTE:**  
QUANTITIES ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR TO HELP CLARIFY THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BID ADEQUATE QUANTITIES TO COMPLETE THE PLANS AS SHOWN.

**NOTE:**  
SURVEY CONDUCTED BY TERRAMARK LAND SURVEYING INC., 1396 BELLS FERRY ROAD, MARIETTA, GEORGIA 30066, 770-421-1927, DRAWING #TM 16 095.



W&A PROJECT NUMBER -19040

WOMACK & ASSOCIATES  
COA 0P0606530 EXP. 06/30/2020  
PLOT SCALE: 1" = 10' 0"



**DRAWINGS SCHEDULE**

No.	Date	Description
1	1.21.20	Electrical Change Order

CITY OF BROOKHAVEN  
BRIARWOOD PARK  
2235 BRIARWOOD WAY  
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
08/30/19	PJN	WBM
SCALE	AS SHOWN	
SHEET TITLE		
LEGEND, RISERS AND DETAILS		

PROJECT NUMBER	15091.00
E100	
SHEET # 54	
DRAWING NUMBER	

SITE LIGHTING



**DRAWINGS SCHEDULE**

No.	Date	Description
1	11.21.20	Electrical Change Order

**CITY OF BROOKHAVEN**  
**BRIARWOOD PARK**  
2235 BRIARWOOD WAY  
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
08/30/19	PJN	WJM
SCALE	1"=20'	

SHEET TITLE  
SITE PLAN LIGHTING

PROJECT NUMBER  
15091.00

**E100B**

SHEET # 55

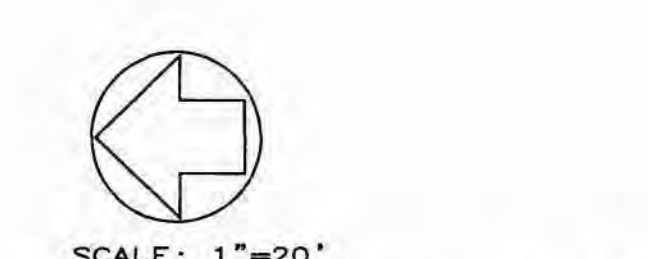
DRAWING NUMBER

APPROVED PLAN 04/28/2023  
Permit # LDP22-00019



PROPOSED LOCATION OF GPco PAD MOUNTED TRANSFORMER VERIFY EXACT LOCATION W/ GPco PRIOR TO START OF WORK. CONFIRM LOCATION WITH GEORGIA POWER SO CONDUITS CAN BE STUBBED UP PRIOR TO THE INSTALLATION OF THE PAD MOUNTED TRANSFORMER BY GPco.

**1 SITE PLAN**  
SCALE: 1"=20'-0"



**SITE LIGHTING**

**QUANTITY NOTE:**  
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**NOTE:** SURVEY CONDUCTED BY TERRAMARK LAND SURVEYING INC., 1396 BELLS FERRY ROAD, MARIETTA, GEORGIA 30066, 770-421-1927, DRAWING #TM 16 095.

**GEORGIA**  
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**GEORGIA REGISTERED PROFESSIONAL ENGINEER**  
No. PE11995  
WOMACK & ASSOCIATES  
CONSULTING ENGINEERS  
01-21-2020

**WOMACK & ASSOCIATES**  
3032 Vernon Oaks Drive  
Doraville, Georgia 30138  
Voice 770-378-4743  
WOMACK & ASSOCIATES  
COA #PEF066530 EXP. 06/30/2020  
PLOT SCALE: 1" = 10' 0"

## SYMBOL LEGEND

MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION.

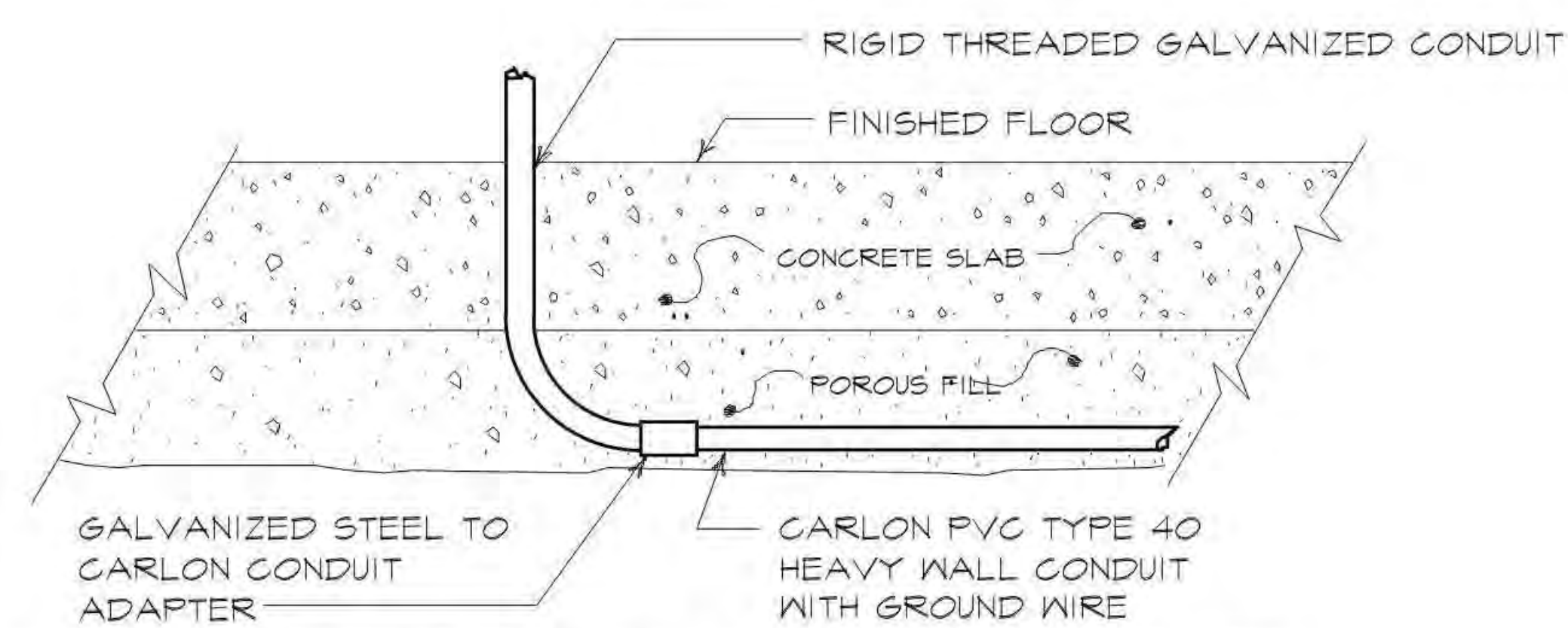
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
AFF	ABOVE FINISHED FLOOR	
WF	WEATHER PROOF	
	CROSS HATCHING REPRESENTS GROUND, NEUTRAL AND HOT RESPECTIVELY; ARROW REPRESENTS HOME RUN	
	CONDUIT RUN CONCEALED BELOW GROUND OR IN STRUCTURE WEBS	
	FAN CONTROLLER - SUPPLIED BY FAN MANUFACTURER INSTALLED BY ELECTRICAL.	
	EXTERIOR RATED CEILING WITH LIGHT	
	GROUND FAULT CURRENT INTERRUPTER TYPE DUPLEX RECEPTACLE WITH USB PORTS	
	PANELBOARD 120/240 VOLTS, SINGLE PHASE.	

## EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MOUNTING	VOLT	LAMPS		DRIVER		MANUFACTURER
				TYPE	NO.	TYPE	NO.	
F	60" SIX BLADED CEILING FAN.	MOUNT TO STRUCTURE	120	LED	--	ELECTRONIC	--	BIG ASS FAN SERIES (SKU #MK-ES 62-BLACK-LED LIGHTING FIXTURE)

### EQUIPMENT SCHEDULE NOTES:

- ALTERNATE SUPPLIERS OF SPECIFIED EQUIPMENT WILL BE ACCEPTABLE ONLY BY FORMAL SUBMITTAL 10 DAYS PRIOR TO BID.

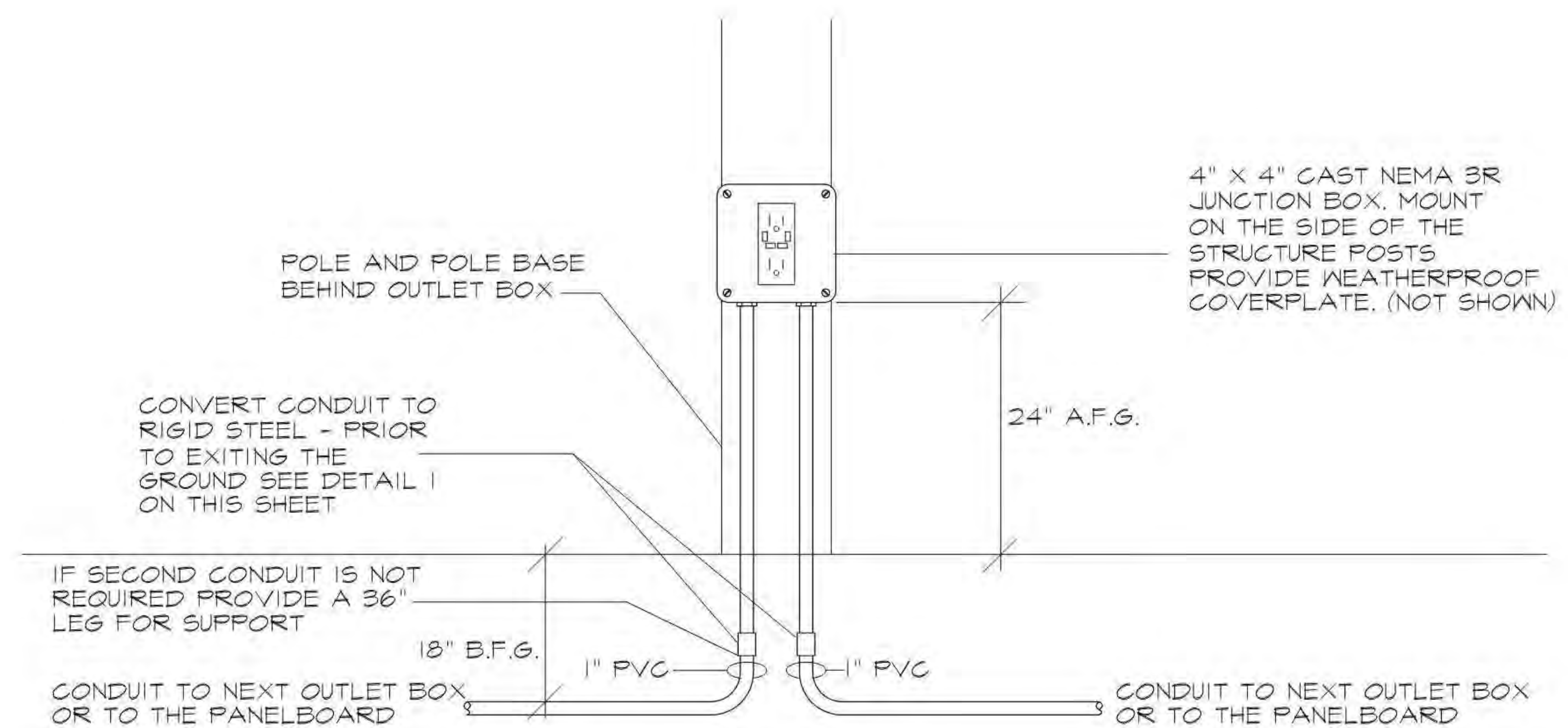


THE ABOVE DETAIL SHALL APPLY WHEREVER PVC CONDUIT IS USED UNDERGROUND OR BELOW FLOOR SLAB IN LIEU OF RIGID THREADED GALVANIZED CONDUIT. THE ELBOW SHALL BE RIGID GALVANIZED CONDUIT. FAILURE TO COMPLY WILL RESULT IN HAVING TO REMOVE THE SLAB AND REINSTALL THE EXPOSED CONDUITS.

1

### DETAIL - CONDUIT FROM BELOW SLAB

NOT TO SCALE



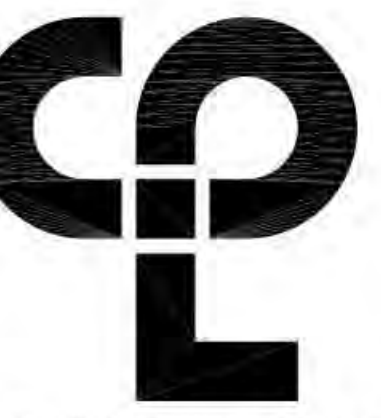
2

### DETAIL - GRADE MTD OUTLET BOX

NOT TO SCALE







CPL | Architecture Engineering Planning  
 3011 SUTTON GATE DR. SUITE 130  
 SUWANEE, GA. 30024  
 CPLteam.com

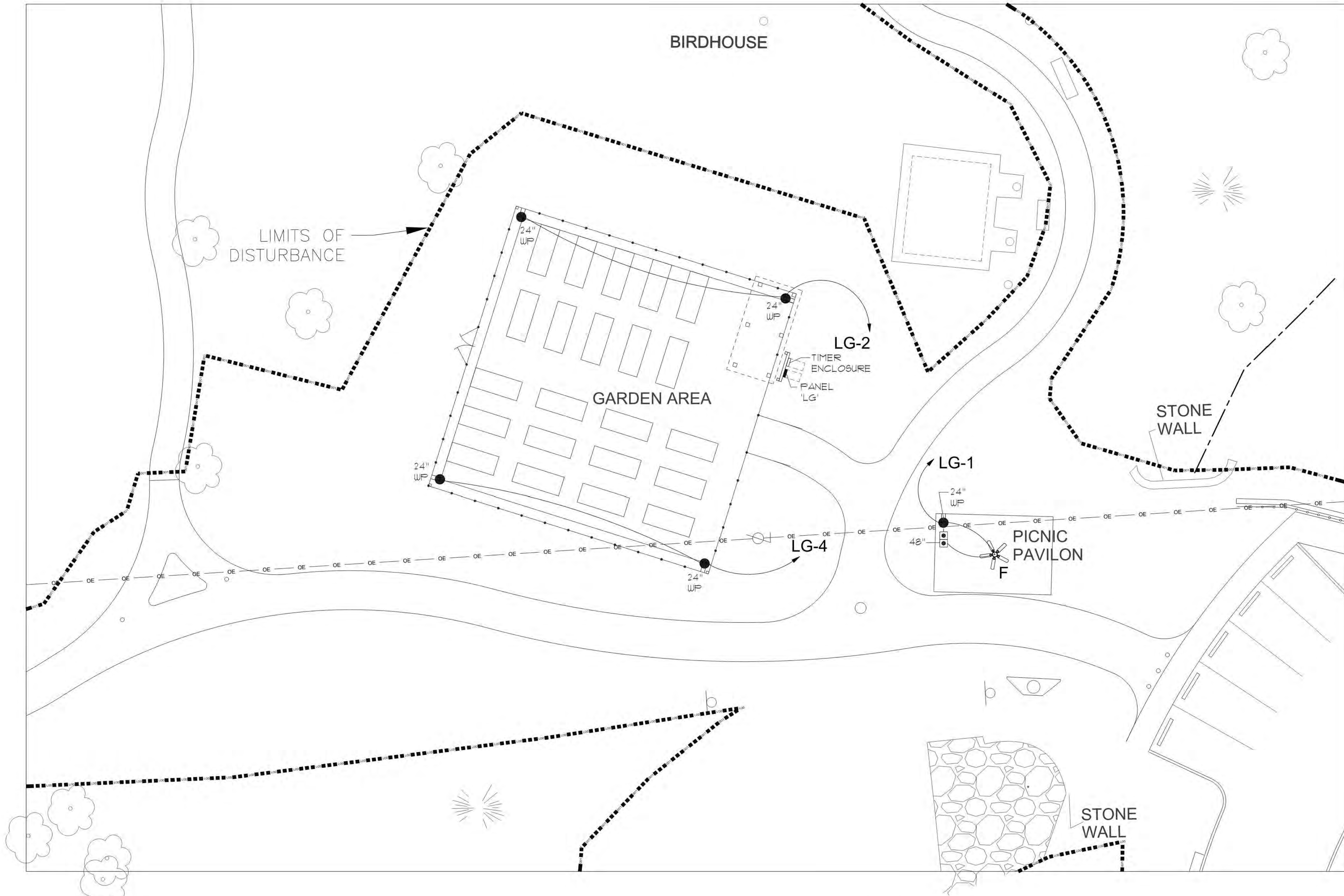
**PROJECT INFORMATION**

Project Number  
 15091.02  
 Client Name  
**CITY OF BROOKHAVEN**  
 Project Name  
**BRIARWOOD PARK**

Project Address  
 2235 BRIARWOOD WAY NE  
 BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

Date Description



**1 ELECTRICAL SITE PLAN - GARDEN AREA & PICNIC PAVILION**  
 SCALE: 1/8" = 1'-0"

**NOTES:**  
 EXTEND ALL SHOWN HOMERUNS TO PANEL 'LG' THROUGH THE TIME SWITCH IN THE ENCLOSURE ADJACENT TO THE PANEL.



**SHEET INFORMATION**

Issue Date: Jan. 02, 2023  
 Issue For: CONSTRUCTION  
 Drawing Title: ELECTRICAL SITE PLAN - GARDEN AREA & PICNIC PAVILION

COMMUNITY GARDEN

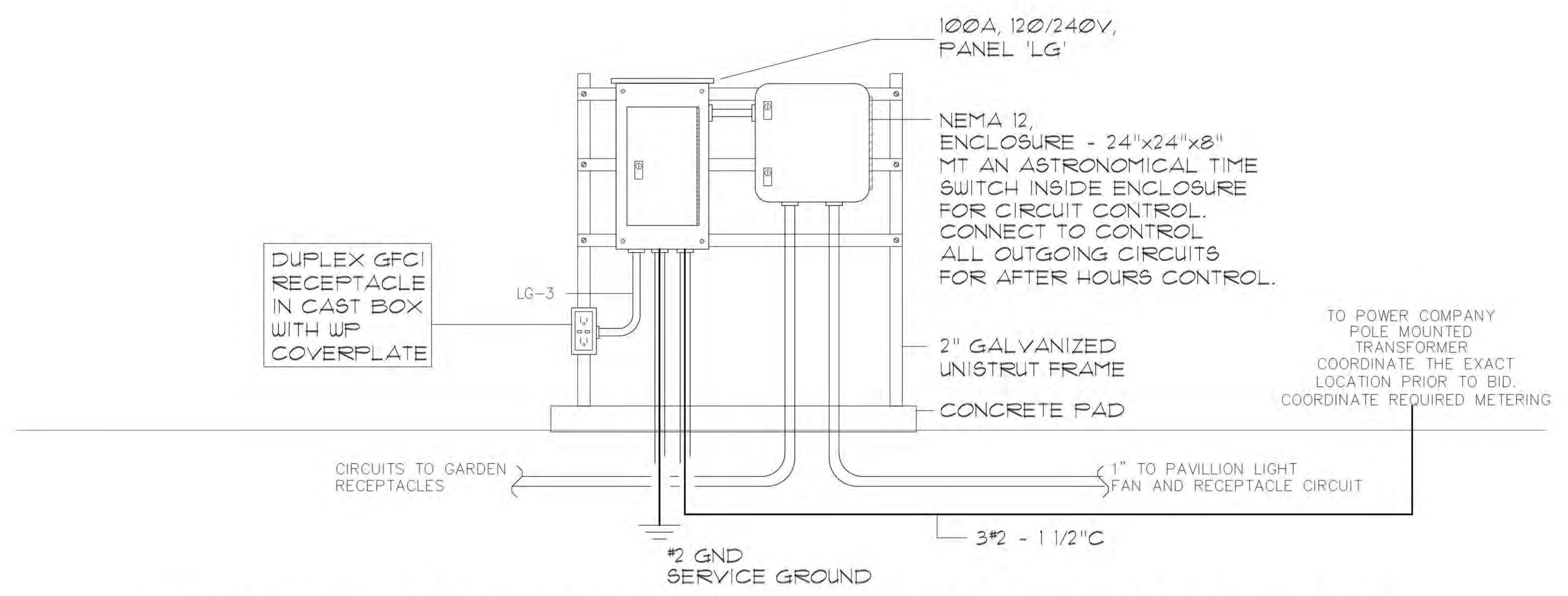


**E102**  
 SHEET # 5  
 APPROVED PLAN 04/28/2023  
 Permit # LDP22-00019

PANELBOARD 'LG' SCHEDULE													
VOLTAGE: 240/120 V		MAINS: 100 A MAIN BKR		MOUNTING: SURFACE		REMARKS: NEMA 3R SERVICE ENTRANCE RATED							
BUS SIZE: 100 A		TOTAL LOAD: 41.2 KVA		FAULT DUTY: 10000 A									
NO	SERVES	NOTE	LOAD (kVA)	BREAKER		PHASE		BREAKER		LOAD (kVA)	NOTE	SERVES	NO
				TRIP	P	A	B	P	TRIP				
1	PAVILION LIGHT/FAN/RECEP		1.2	20	1	1		1	20	1.2		GARDEN RECEPTACLE	2
3	RECEPTACLE		1.2	20	1	1		1	20	1.2		GARDEN RECEPTACLE	4
5	SPACE ONLY				1	1		1	20			SPARE	6
7	SPACE ONLY				1	1		1	20			SPARE	8
9	SPACE ONLY				1	1		1	20			SPARE	10
11	SPACE ONLY				1	1		1				SPACE ONLY	12
13	SPACE ONLY				1	1		1				SPACE ONLY	14
15	SPACE ONLY				1	1		1				SPACE ONLY	16
17	SPACE ONLY				1	1		1				SPACE ONLY	18
19	SPACE ONLY				1	1		1				SPACE ONLY	20

**PROJECT INFORMATION**  
 Project Number: 15091.00  
 Client Name: CITY OF BROOKHAVEN  
 Project Name: BRIARWOOD PARK  
 Project Address: 2235 BRIARWOOD WAY NE, BROOKHAVEN, GA 30319

**REVISION SCHEDULE**  
 1 - Scale: As Indicated



**1** **DETAIL - GARDEN & PICNIC POWER AND CONTROLS ENCLOSURE**  
 NOT TO SCALE



**SHEET INFORMATION**  
 Issue: Jan. 02, 2023  
 Project Status: ISSUE FOR CONSTRUCTION  
 Drawing Title: ELECTRICAL RISER, MOUNTING STAND, and PANELBOARD SCHEDULE



COMMUNITY GARDEN

**DIVISION 16000: ELECTRICAL SPECIFICATIONS**

**PART 1 - GENERAL**

**1.01 SCOPE:**

- A. Furnish and install a completely wired and operational electrical system as shown on the drawings and specified herein, including but not limited to these major items.
  1. Lighting fixtures as indicated and specified on plans.
  2. Electrical panels, controls, service, disconnects, conduit, wiring, etc., for all outlets and equipment.

**1.02 CODES, REGULATIONS AND STANDARDS:**

- A. The installation shall comply with applicable local and state codes and ordinances, including the regulations of the following:
  1. Americans with Disabilities Act
  2. Current Applicable Building Code
  3. National Electric Code
  4. Local building codes and ordinances
- B. The following industry standards, specifications are also minimum requirements:
  1. The National Electrical Manufacturer's Association Standards (NEMA).
  2. The Manufacturer's Recommendation.
  3. Underwriter Laboratories Incorporated Standards (UL).
  4. American National Standards Institute (ANSI).

**1.03 PERMITS**

- A. Obtain and pay for all required permits and inspection fees.

**1.04 INSPECTION OF SITE:**

- A. Prior to submitting a bid, visit the site of the proposed construction to become thoroughly acquainted with existing utilities, working conditions, etc. Allowance will not be made for non-compliance with this condition after bidding.

**1.05 CLEAN-UP:**

- A. Keep the premises free from accumulation of waste material, or rubbish caused by employees or work under this Division of the specification. At the completion of the work, remove all surplus materials, tools, etc., and leave the premises "broom-clean". Remove all temporary wiring upon project completion.

**1.06 DRAWINGS:**

- A. The drawings indicate the general arrangement and locations of the electrical work. Data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the Architect in writing before the date of bid opening. If discrepancies are not reported, bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Field measure and confirm mounting heights and location of electrical equipment with respect to counters, mechanical equipment, etc. Do not scale distances off the electrical drawings; use actual building dimensions.
- B. In all cases switches controlling lighting are to be located on the strike side of doors. Location indicated for switches and outlets are approximate. Owner may make minor relocations at no additional charge.
- C. Should structural elements prevent running of conduits or cable, installation of outlets or panels as shown on the drawings, the required minor change, as determined by the Architect shall be permitted.

**1.07 CUTTING AND FITTING:**

- A. Perform coring, cutting, chopping, fitting, repairing and finishing of the work necessary for the installation of the equipment of this Section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the Architect and Landlord. Properly fill seal, fireproof and waterproof all openings, sleeves, and holes in slabs. Furnish and install all required sleeves and inserts.

**1.08 COORDINATION WITH OTHER TRADES:**

- A. Cooperate with other trades so that installation of electrical outlets and equipment will be properly coordinated. Check conduit, fixture, and other equipment locations with the other trades to avoid conflict with the piping, ductwork, steel, piping, beams, or other obstructions.
- B. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of material of other trades.

**PART 2 - PRODUCTS AND EXECUTION**

**2.01 MATERIALS:**

- A. All material shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations. No substitution to materials specified will be allowed.

**2.02 CONDUIT:**

- A. IMC shall be used for all exterior work, equipment branch circuit feeders and exposed conduit exposed below 10'-0" AFF.
- B. Where the conduit enters outlet boxes, fixtures or cabinets, firmly fasten by double locknuts and bushings. Firmly fasten conduit to the building construction. Run exposed conduits parallel to the building lines, supported by appropriate straps. Support conduits on 5 foot intervals and within 3 feet of any box or fitting.
- C. Conduit connectors shall be double locknut type, UL listed and labeled, with set-screw or compression fittings.
- D. Conduit sizes shall be as required by code and as indicated or specified herein. Minimum conduit size 1/2".
- E. All underground conduits shall be schedule 40 PVC

**2.03 OUTLET, PULL AND JUNCTION BOXES:**

- A. All surface mounted boxes shall be cast type FS with threaded hubs. No exceptions.

**2.04 WIRING - CABLE & CONDUCTORS:**

- A. Unless otherwise specified, all wiring shall be in conduit with copper conductors. The conductors shall be minimum # 12 AWG with an insulated green ground conductor in each run of conduit.
- B. The wires shall be color coded. Unless otherwise required by local ordinances, ground wires shall be green, neutral wires shall be white and phase wires shall be black (Phase A), red (Phase B), for a 120/240 volt single phase system. All conductors shall be #12 AWG, unless otherwise indicated.
- C. All wire number 10 and smaller shall be solid and all conductors number 8 and larger shall be stranded. Conductors number 6 and larger may have a black insulating cover with colored tape to indicate the phase connection.
- D. Do not install conductors until conduit system is complete. Use Mineralac #100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system.

**2.05 WIRING DEVICES:**

- A. Receptacles shall be specification grade, duplex type, 15 ampere, 125 volt grounded type WITH USB PORTS. Outlets shall be Hubbell USB15A C5BK WR with weatherproof coverplates.
- B. Weatherproof receptacle shall be Hubbell WP26 with USB15A C5BK WR outlet.
- C. GFI receptacle shall be Hubbell USB15A C5BK WR.

**2.06 PANELBOARDS:**

- A. Provide branch circuit panelboards as shown on drawings and as specified herein. Provide tin-plated aluminum bus bars. Multiple pole breakers shall have handle ties so all poles act simultaneously. Main breaker shall be center mounted. Equipment ratings shall exceed available fault current. Provide completed circuit directory under plastic cover in each panel door. Circuit breakers shall be bolt-on type. Balance final loads within 10% of all phases. Mount panels 6'-6" to top.
- B. Provide voltage as shown and 50% ground bar in panels.
- C. Panelboards shall be NEMA 3R rated.
- D. Panelboards shall be Square D.

**2.07 LIGHTING FIXTURES:**

- A. Provide lighting fixtures, switches, and/or controllers. Install and lamp fixtures as indicated on the drawings.

**2.08 SAFETY SWITCHES:**

- A. Safety switches shall be heavy duty type, 600 or 250 volt, with number of poles required.

**2.09 FUSES:**

- A. Fuses shall be Gould Shamut, current limiting Bussmann Low-Peak dual element fuses, LPN-RK, LPS-RK OR LPJ. Fuses shall hold 500% of rated current for a minimum of 10 seconds. Fuses shall be time delay UL class RK1 or J with an interrupting rate of 300,000 amperes RMS symmetrical. Install fuses where called for on plans.

**2.10 GROUNDING:**

- A. Provide a grounding system as shown on the electrical riser diagram, including two 10 foot copperweld ground rods.
- B. Provide a grounding conductor in all cable and conduits including all switch legs and branch circuits.
- C. Provide a grounding lug on all switches and receptacles, and connect to the branch circuit grounding conductor.

**2.11 LABELING**

- A. Provide nameplates to identify panelboards, disconnect switches, starters, and other major equipment.

**2.12 GUARANTEE**

- A. Guarantee all material furnished and all workmanship performed for a period of one year from the date of final acceptance of the work. Any defects developing within this period, traceable to material furnished as part of this Section or workmanship performed hereunder, shall be corrected at no expense to the Owner.

**2.13 EXISTING FACILITIES, DEMOLITION AND ALTERATIONS:**

- A. Fully investigate the site and ascertain all existing utilities and conditions which may effect the execution of this work.

**2.14 CONDITIONS PRECEDENT TO FINAL ACCEPTANCE:**

- A. Upon completion of project, prepare and submit one complete set of electrical record drawing set of reproducible and one complete set of prints of "as-built" conditions to the Architect showing all wiring as actually installed. Prints shall also show, as indicated by marked-up notations, all deviations and changes of wiring and circuit number from the original contract drawings.
- B. Upon completion of project, prepare and submit to the Architect for final distribution to the Owner, four (4) copies of an Electrical Operation and Maintenance Manual as further described herein. Each manual shall consist of a 3-hole, post-type, hard cover binder with blue color. Cover inscription shall be commercially imprinted with full title of the job, Owner, Architect, Contractor, and year of completion on the front cover and an abbreviated version of the cover inscription shall be included on the binding edge. Submit cover inscription sample for approval. Coordinate with other disciplines so that all manuals are similar in size and appearance. Contents of manual shall consist of final shop drawings of panelboards and electrical equipment; one set of manufacturer's original commercially printed catalog data sheets of lighting fixtures and devices; part lists; safety, maintenance, and operation instructions; and final list of electrical materials installed, listing manufacturer, catalog number, and local supplier of replacement and spare parts for each item. One (1) preliminary copy of manual shall be submitted for review and approval by the Architect 2 weeks prior to substantial completion.



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**PROJECT INFORMATION**

Project Number  
15591.00  
Client Name  
CITY OF BROOKHAVEN

Project Name  
BRIARWOOD PARK

Project Address  
2235 BRIARWOOD WAY NE  
BROOKHAVEN, GA 30319

**REVISION SCHEDULE**

1 Date Description



**SHEET INFORMATION**

Issue  
Jan. 02, 2023 Issue  
As Indicated  
Project Status  
ISSUE FOR CONSTRUCTION  
Drawn by  
jbl Checked by  
jbl  
Drawing Title  
ELECTRICAL  
SPECIFICATIONS



5064 Roswell Road, Suite D-301  
Sandy Springs GA 30343 770.519.7400  
Project 23903 8/2023

**COMMUNITY GARDEN**