

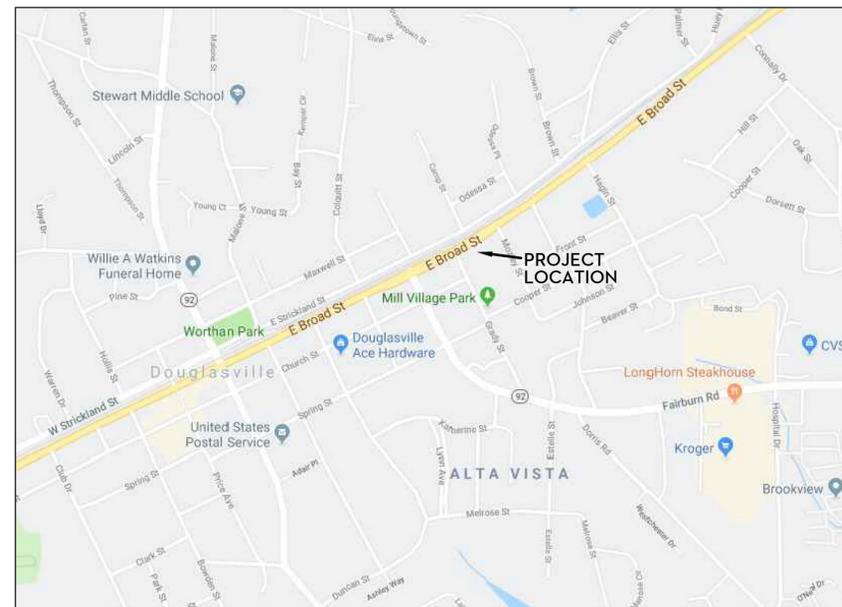
LOCATED at 8320 GRADY STREET, DOUGLASVILLE, GEORGIA 30134

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LOCATION MAP  
NTS



PROJECT AREA  
NTS

# MILL VILLAGE PARK

DOUGLASVILLE, GA

**GOODWYN MILLS & CAWOOD, INC** | ARCHITECTURE, INTERIORS, CIVIL, LANDSCAPE



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PLAN REVISIONS AND DESCRIPTION	

REVIEWS/PERMITS/ESMT	SUBMIT	STATUS
1.		
2.		

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# EROSION/SEDIMENTATION CONTROL NOTES

- The Contractor is responsible for implementing and maintaining Erosion/Sedimentation Control measures in accordance with EPA "Best Management Practices". Measures shown on the plans should be considered minimums. Additional erosion/sedimentation measures may be required to keep sediment from leaving the site. These additional measures will be the responsibility of the Contractor. Structures / Measures shown along the perimeter of disturbed areas to be installed prior to disturbance activity. Other measures to be installed as soon as construction sequences allow.
- Maintenance of said structures and/or measures is the responsibility of the Contractor. All erosion control structures / measures to be removed immediately after all rainfall events. Corrective action, if required, must be taken immediately.
- All BMPs shall be designed and installed in accordance with the conditions outlined in the NPDES "Best Management Practices", City of Douglasville Standard for Erosion and Sediment Control, and the Plans, Specifications. If conflicts arise between these requirements, the more stringent shall apply.
- Contractor is responsible for whatever measures are necessary to produce and maintain an acceptable stand of grass. Said measures to include (but not limited to) watering, re-seeding, re-grading eroded areas, re-fertilizing, etc.
- All areas outside of the pavement to receive a 4-inch layer of topsoil.
- Contractor is responsible for keeping mud and debris off the City/State Streets and ROW at all times. Cleanup is required daily.
- Contractor shall keep a copy of the NPDES permit and the "Best Management Practices" on site at all times for the life of the project.
- Any area that has been cleared of its vegetative cover and will remain so for fifteen (14) days or longer without appreciable construction activity must be seeded and mulched within fifteen (12) days of being disturbed. Those areas shall be temporarily seeded and mulched in accordance with the latest edition of the G.D.O.T. Construction Specifications, utilizing the GDOT seed mixes. All temporary grassing shall be killed before providing permanent grassing. All disturbed areas shall receive a permanent grassing of Bermuda solid sod.
- Additional BMPs may be required by the Engineer, OCP, EPA and/or City of Douglasville over the course of the project to prevent sediment release from the site. The cost associated with these additional BMPs shall be included in the contractor's bid, no additional compensation will be given to the contractor for this work.
- The Contractor shall stabilize all disturbed areas immediately after the completion of the grading operation.
- Maintenance of all earth surfaces, including ditch/swale slopes, is the responsibility of the Contractor. Said maintenance to include regrading, temporary grassing, mowing, etc. as may be required.
- The Engineer or the OCP may require the contractor to clean up silt/sediment, replace erosion/sedimentation control or add additional erosion/sedimentation control measures at any time, if the measures in place do not appear to be adequate and/or functioning properly. The cost associated with any of these corrective measures shall be included in the contractor's bid, no additional compensation will be given to the contractor for this work.
- The Contractor shall frequently remove any and all silt/sediment from the silt fence, ditches, check dams and retention area. At the end of construction these areas shall be completely free of silt/sediment and shall be stabilized as stated in the Plans and Specifications.
- Maintenance of all earth surfaces, including ditch/swale slopes, is the responsibility of the Contractor until an acceptable stand of grass is obtained. Said maintenance to include regrading, temporary grassing, mowing, etc. as may be required.
- The Contractor shall be responsible for removing the silt fence and rip rap spillways that do not have a pipe discharging into them, once an acceptable stand of grass is grown. The Owner and Engineer shall determine if the grass is acceptable.
- The Contractor shall be responsible for maintaining the erosion/sedimentation control measures as required to keep silt/sedimentation from leaving the site.
- The Contractor shall maintain the Construction Entrance as required to prevent silt/sedimentation from leaving the site. This includes but is not limited to wash down of the construction entrance, installing and utilizing a vehicle wash down area, installing additional stone, etc.



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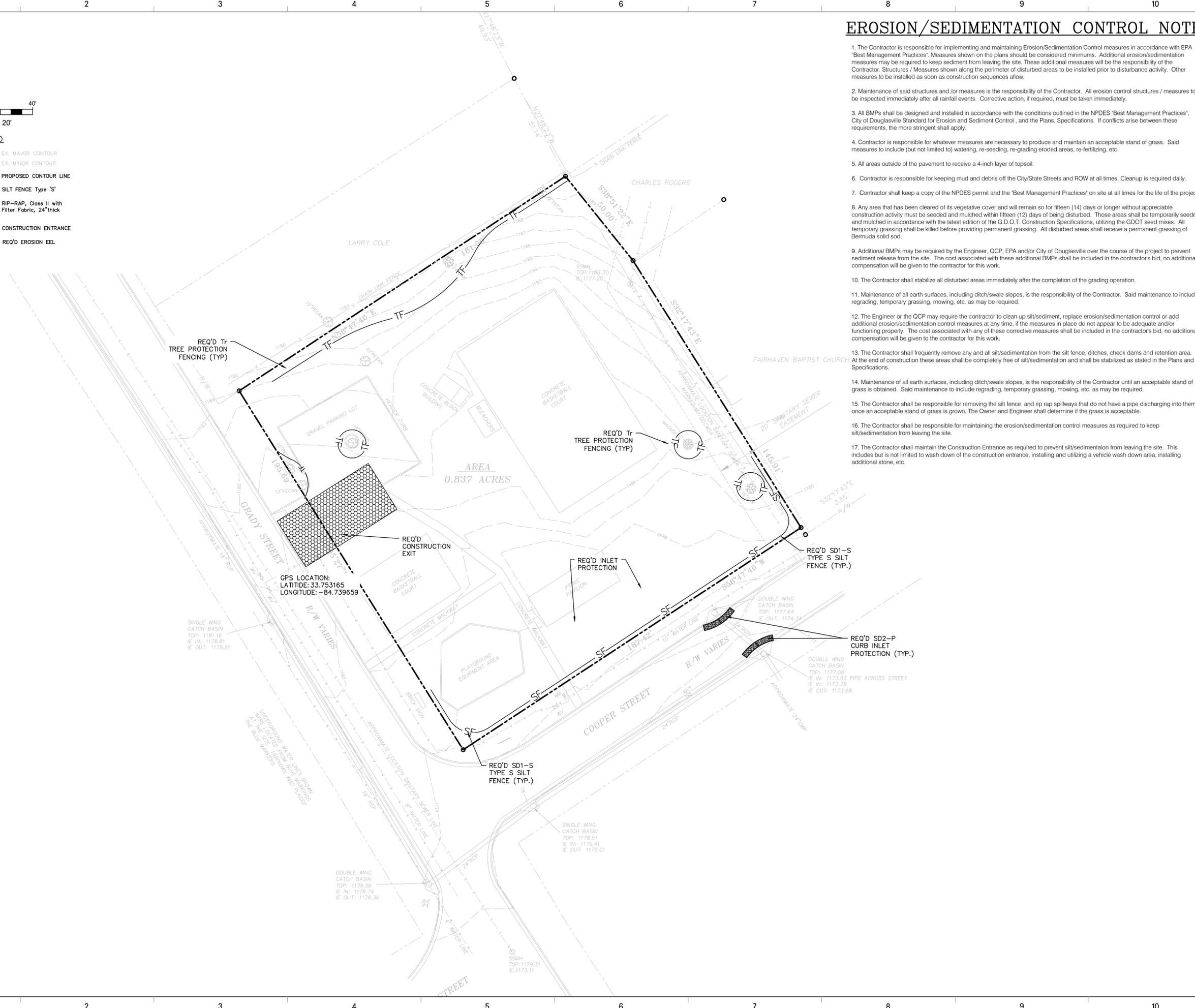
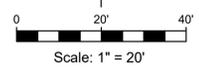
PHASE I EROSION  
CONTROL PLAN



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**LEGEND**

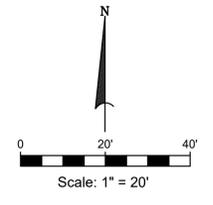
- 720 --- EX. MAJOR CONTOUR
- 718 --- EX. MINOR CONTOUR
- 233 --- PROPOSED CONTOUR LINE
- //--- SILT FENCE Type 'S'
- [Symbol] RIP-RAP, Class II with Filter Fabric, 24" thick
- [Symbol] CONSTRUCTION ENTRANCE
- [Symbol] REQ'D EROSION EEL



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- LEGEND**
- 720--- EX. CONTOUR
  - EX. WATER LINE
  - BTV--- EX. BURIED CABLE
  - GAS--- EX. GAS LINE
  - EX. SIGN
  - MB EX. MAILBOX
  - EX. POWER POLE
  - EX. IRRIGATION VALVE
  - EX. TELEPHONE MANHOLE
  - EX. STORM MANHOLE
  - EX. POWER MANHOLE
  - EX. SANITARY MANHOLE
  - EX. WATER VALVE
  - EX. GAS VALVE
  - EX. GAS METER
  - EX. HYDRANT
  - EX. TELEPHONE PEDESTAL
  - EX. PLAT CALL
  - 1170--- REQ'D MAJOR CONTOUR
  - 1178--- REQ'D MINOR CONTOUR

**Post Development Drainage Calculation - 25 Years Storm Event**

Area No.	Inlet	Area (sf)	Area (ac)	Cw	L	h	s	Tc	i	Q (cfs)
1	1-GI	10300.28	0.24	0.45	189.00	2.74	1.45	14.23	5.71	0.61
2	2-GI	4665.08	0.11	0.45	118.00	4.00	3.39	8.50	7.53	0.36
3	Ex. Double Wing Catch Basin	31893.46	0.73	0.45	430.00	4.00	0.93	24.85	4.54	1.49

**Pipe Sizes - 25 Years Storm Event**

STR	TO	STR	Added Q	Total Q	Pipe	Des. Slope, %	Min. Slope, %
1-GI	-	2-GI	0.61	0.61	15	1.00	0.01
2-GI	-	Ex. Double Wing Catch Basin	0.36	0.97	15	1.00	0.02

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**POST DEVELOPMENT DRAINAGE PLAN**

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**(Ds1) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

A TEMPORARY COVER OVER BASE AREAS TO PREVENT EROSION AND REDUCE RUNOFF; TO CONSERVE MOISTURE; TO PREVENT SURFACE COMPACTION OR CRUSTING; TO CONTROL UNDESIRABLE VEGETATION; TO MODIFY SOIL TEMPERATURE AND TO INCREASE BIOLOGICAL ACTIVITY IN THE SOIL.

• 6 MONTHS OR WHEN SEEDING DOES NOT HAVE A SUITABLE GROWING SEASON

MATERIALS AND RATES:

STRAW OR HAY	2" to 4" DEEP
WOOD WASTE, CHIPS, SAWDUST OR BARK	2"-3" DEEP (ABOUT 6 TO 9 TONS/ACRE)
POLYETHYLENE FILM	COMPLETELY COVER AREA

• MAY BE NECESSARY TO ANCHOR

**(Ds2) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)**

ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS

• 3-12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION

• SITE PREPARATION

- GRADING AND SHAPING
- SEED BED PREPARATION
- APPLY LIME AND FERTILIZER
- PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
- APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED BUT NOT AT A RATE TO CAUSE EROSION

• PLANTING DATES DEPEND ON SPECIES AND REGION ( MOUNTAIN, PIEDMONT OR COASTAL)

PLANTING RATES AND PLANTING DATES FOR TEMPORARY COVER

SPECIES	RATE PER 1,000 SQ. FT.		PLANTING DATES		
	1,000 SQ. FT.	PER ACRE	MOUNTAINS	PIEDMONT	COASTAL
RYE	3.9 LB.	3 BU. (168 LBS)	8/15-10/31	9/15-11/30	10/1-12/31
RYEGRASS	0.9 LB.	40 LBS.	8/15-11/15	9/1-12/15	9/15-12/31
ANNUAL LESPEDEZA	0.9 LB.	40 LBS.	3/1-3/31	3/1-3/31	2/1-2/28
WEEPING LOVEGRASS	0.1 LB.	4 LBS.	4/1-5/31	4/1-5/31	3/1-5/31
SUDANGRASS	1.4 LB.	60 LBS.	5/1-7/31	5/1-7/31	4/1-7/31
BROWNTOP MILLET	0.9 LB.	40 LBS.	4/15-6/15	4/15-6/30	4/15-6/30
WHEAT	4.1 LB.	3 BU. (180 LBS)	9/15-11/30	10/1-12/15	10/15-12/31

**(Ds2) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)**

UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA

• APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING:

- CUT OR FILL SLOPES
- EARTH SPILLWAYS
- BORROW AREAS
- CHANNEL BANKS
- BERMS
- ROADSIDES
- SPILL AREAS
- GULLED LANDS

• GRADING AND SHAPING REQUIRED WHERE FEASIBLE AND PRACTICAL

• SEED BED PREPARATION

- NOT REQUIRED IF USING HYDRAULIC SEEDING AND FERTILIZING
- WHEN REQUIRED

SLOPE SEED BED

3:1 OR FLATTER	2" DEEP
2:1 TO 3:1	1" TO 4" DEEP
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" APART WITH HAND TOOL

• HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE

• MULCH SHALL BE APPLIED TO COVER 90% OF THE SOIL SURFACES.

• ANCHOR MULCH IMMEDIATELY

PERMANENT GRASSING

GRASS SEED ON LEVEL OR SLIGHTLY SLOPING GROUND SHALL CONSIST OF THE FOLLOWING FOR THE PLANTING DATES SPECIFIED:

(A) MARCH 1 TO JUNE 30

COMMON BERMUDA (HULLED)	10 LBS/ACRE
TALL FESCUE	50 LBS/ACRE

(B) AUGUST 1 TO NOVEMBER 1

COMMON BERMUDA (UNHULLED)	50 LBS/ACRE
COMMON BERMUDA (HULLED)	10 LBS/ACRE

(C) NOVEMBER 1 TO MARCH 1

COMMON BERMUDA (UNHULLED)	10 LBS/ACRE
---------------------------	-------------

PERMANENT GRASSING

GRASS SEED ON LEVEL OR SLOPES 3:1 OR STEEPER AND INFREQUENTLY MOWED AREAS SHALL CONSIST OF THE FOLLOWING FOR THE PLANTING DATES SPECIFIED:

(A) MARCH 1 TO JUNE 15

WEEPING LOVEGRASS	4 LBS/ACRE
SERICA LESPEDEZA (SCARIFIED)	60 LBS/ACRE

(B) AUGUST 1 TO NOVEMBER 1

TALL FESCUE	50 LBS/ACRE
SERICA LESPEDEZA (UNSCARIFIED)	75 LBS/ACRE

(C) NOVEMBER 1 TO MARCH 1

COMMON BERMUDA (UNHULLED)	10 LBS/ACRE
SERICA LESPEDEZA (UNSCARIFIED)	75 LBS/ACRE

WHEN AS DIRECTED BY THE ENGINEER, SEED OF AN APPROVED QUICK GROWING SPECIES OF GRASS, SUCH AS RYE, ITALIAN RYE, MILLET OR OTHER CEREAL GRASS, SHALL BE APPLIED AT A RATE OF 30 LBS/ACRE IN CONJUNCTION WITH AND IN ADDITION TO THE SEED MIXTURE SPECIFIED ABOVE.

FERTILIZER

COMMERCIAL FERTILIZER SHALL COMPLY WITH THE STATE FERTILIZER LAWS AND SHALL BE OF AN ACCEPTED AND APPROVED COMMERCIAL BRAND. FERTILIZER SHALL BE A READY MIXED MATERIAL CONTAINING THE SOIL NUTRIENTS AS SPECIFIED AND IN A SUITABLE FORM COMPATIBLE WITH THE EQUIPMENT USED TO ACHIEVE UNIFORM DISTRIBUTION OF THE FERTILIZER. THE FERTILIZER MIXTURE SHALL CONTAIN THE FOLLOWING NUTRIENTS EXPRESSED IN PERCENT OF THE TOTAL WEIGHT: 6% NITROGEN 12% AVAILABLE PHOSPHORIC ACID, AND 12% WATER SOLUBLE POTASH (6-12-12) ANALYSIS. CONTAINER TAGS SHALL HAVE THE NAME AND ADDRESS OF THE MANUFACTURER, THE BRAND NAME, NET WEIGHT, AND CHEMICAL COMPOSITION OF ANALYSIS. FERTILIZER SHALL BE APPLIED AT THE RATE OF 1,500 LBS PER ACRE AT THE TIME OF SEEDING.

LIME

AGRICULTURAL DOLOMITIC LIME SHALL BE A PULVERIZED LIMESTONE HAVING A CALCIUM CARBONATE EQUIVALENT CONTENT OF NOT LESS THAN 80% OF THE TOTAL MATERIAL SHALL PASS A 10-MESH SIEVE AND AT LEAST 25% SHALL PASS A 100-MESH SIEVE. LIME SHALL BE APPLIED AS INDICATED BY THE SOIL TEST, OR THE RATE OF 1 TO 2 TONS PER ACRE.

WATER

THE WATER USED IN THE GRASSING OPERATIONS MAY BE OBTAINED FROM ANY APPROVED SPRING, POND, LAKE, STREAM, OR MUNICIPAL WATER SYSTEM. THE WATER SHALL BE FREE OF EXCESS AND HARMFUL CHEMICALS, ACIDS, ALKALIZES, OR ANY SUBSTANCE WHICH MIGHT BE HARMFUL TO PLANT GROWTH.

WATERING MAINTENANCE AND RESEEDING

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER MOISTURE CONTENT OF THE SOIL TO INSURE ADEQUATE PLANT GROWTH UNTIL A SATISFACTORY STAND OF GRASS IS OBTAINED. WATERING SHALL BE PERFORMED TO MAINTAIN AN ADEQUATE WATER CONTENT IN THE SOIL.

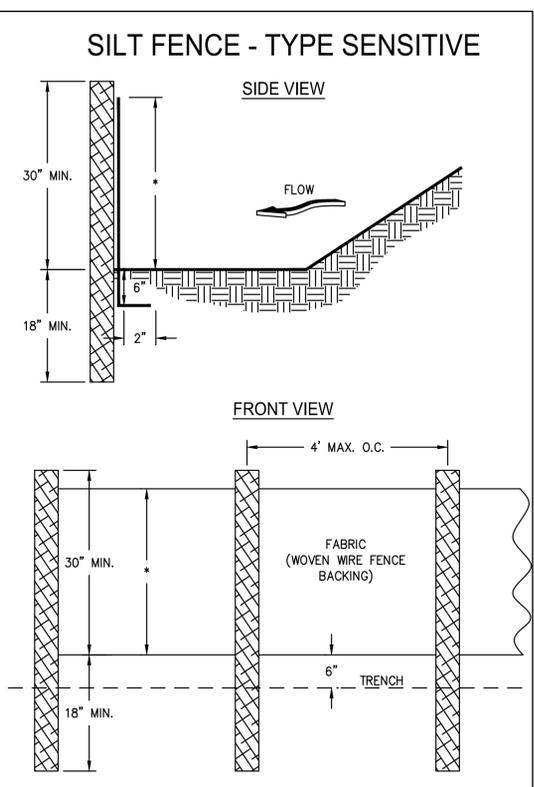
THE CONTRACTOR SHALL MOW AND MAINTAIN ALL SEEDING AREAS WITHOUT ADDITIONAL PAYMENT UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, AND ANY REGRADING, RESEEDING, RELIMING, RESEEDING OR REMULCHING SHALL BE DONE AT HIS OWN EXPENSE. SEEDING WORK SHALL BE REPEATED ON DEFECTIVE AREAS UNTIL A SATISFACTORY UNIFORM STAND OF GRASS IS ACCOMPLISHED. DAMAGE RESULTING FROM EROSION, GULLIES, WASHOUTS, OR OTHER CAUSES SHALL BE REPAIRED BY FILLING WITH TOPSOIL, COMPACTING, AND PREPARING THE SEEDING WORK AT HIS EXPENSE.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

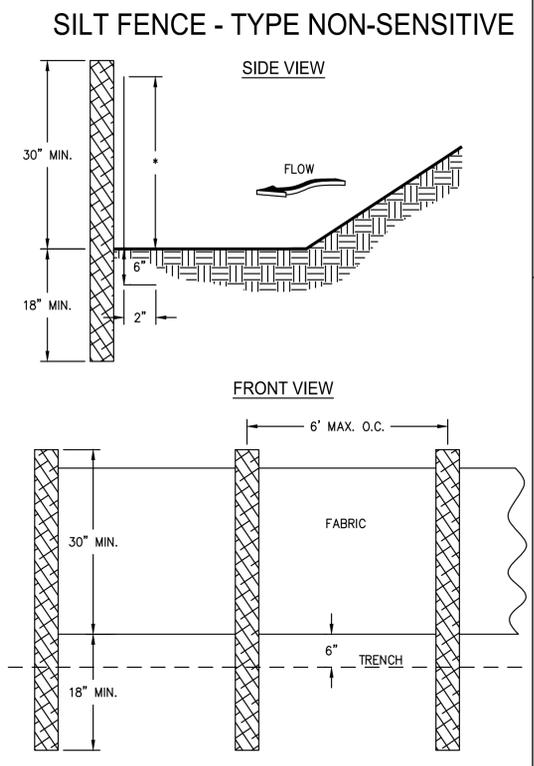
**(Ds3) DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)**

**(Ds1) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**



NOTES:

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



NOTES:

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

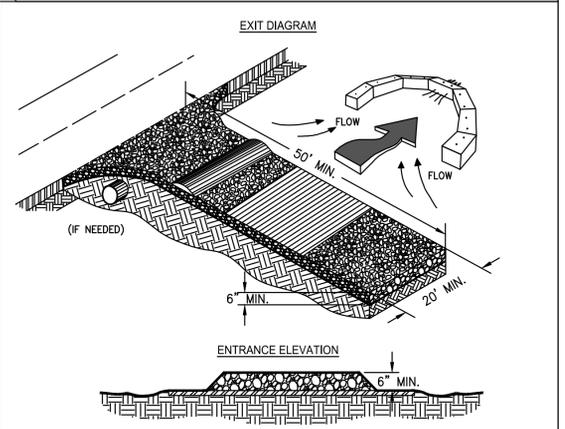
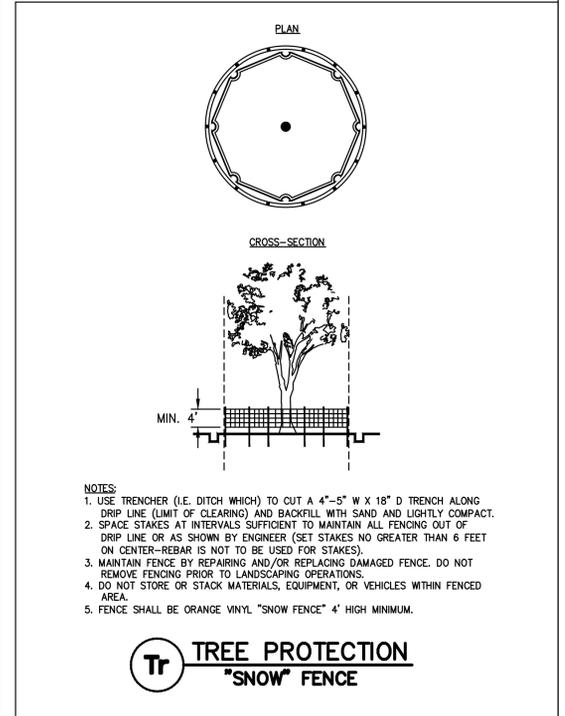
**(Sd1) SEDIMENT BARRIER (Sd1-S) TYPE SENSITIVE (Sd1-NS) TYPE NON-SENSITIVE**

**CONCRETE WASTE MANAGEMENT**

DESCRIPTION AND PURPOSE  
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

SUITABLE APPLICATIONS  
THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE CONCRETE WORK TAKES PLACE.

IMPLEMENTATION  
• STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.  
• AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.  
• PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.  
• DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.  
• DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.  
• WHEN WASHING CONCRETE, TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA.  
• TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.  
• WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6"
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**(Co) TEMPORARY CONSTRUCTION EXIT**

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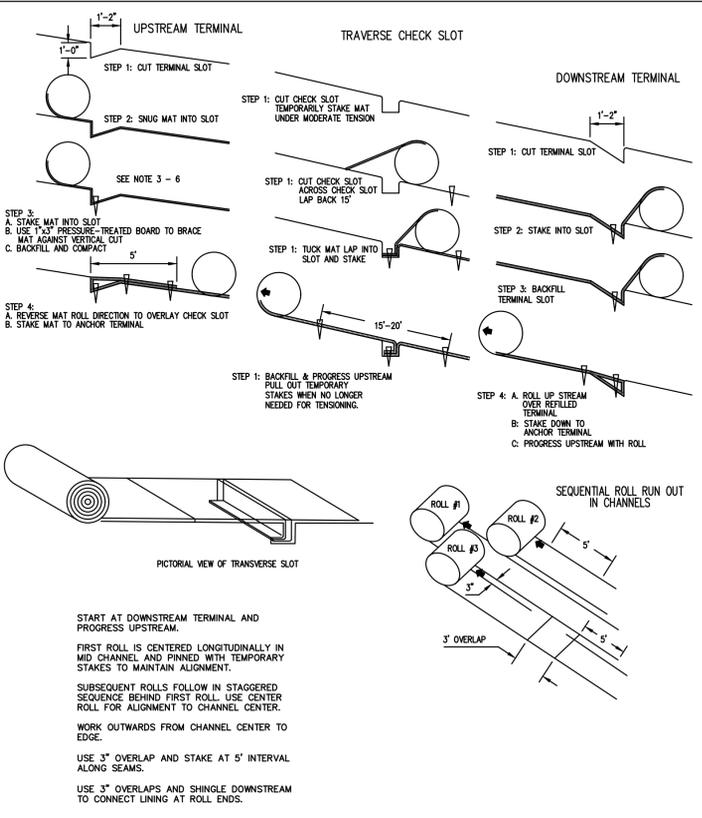
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**DETAILS**

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**REGISTERED PROFESSIONAL ENGINEER**  
KATHRYN D. KAY  
10/22/2019

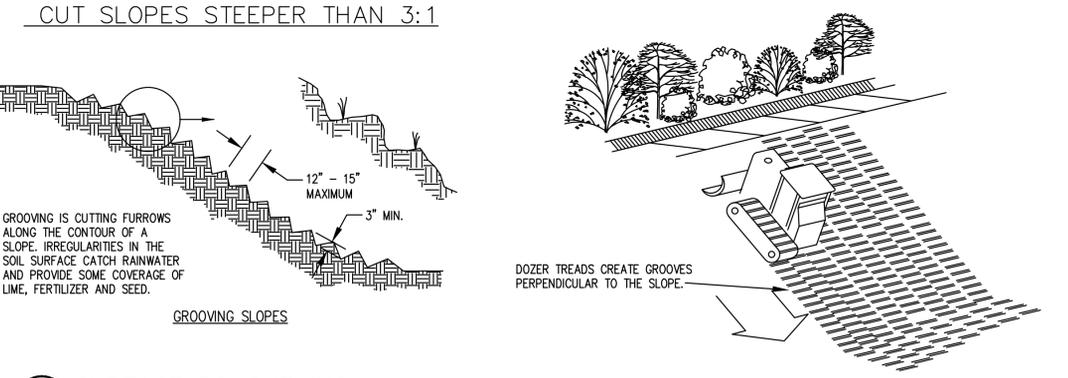
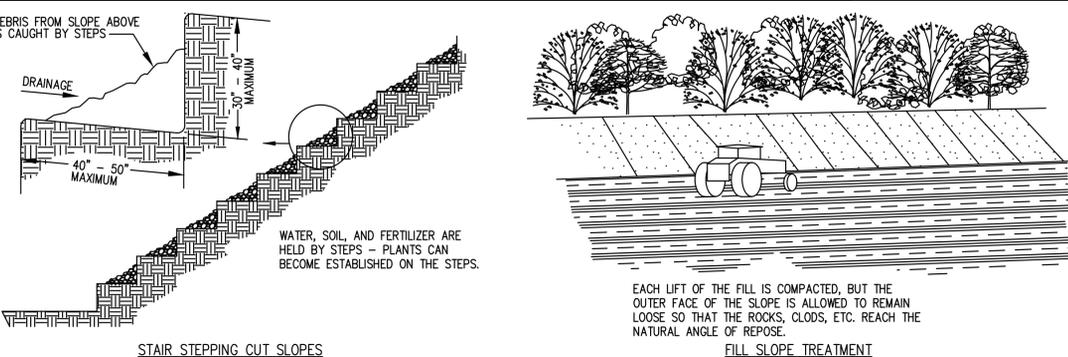
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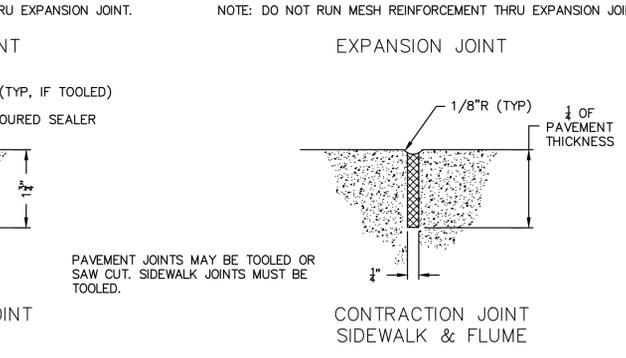
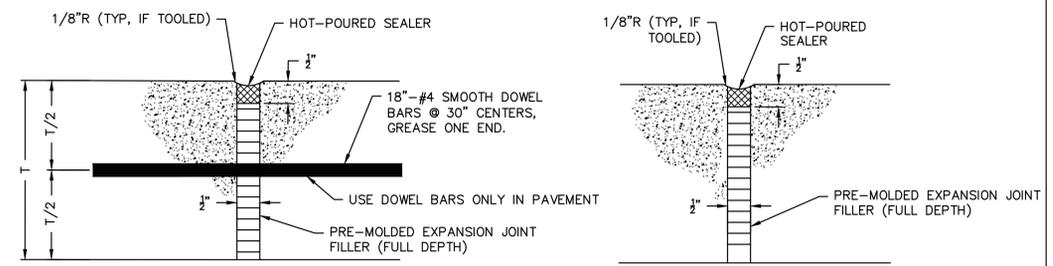
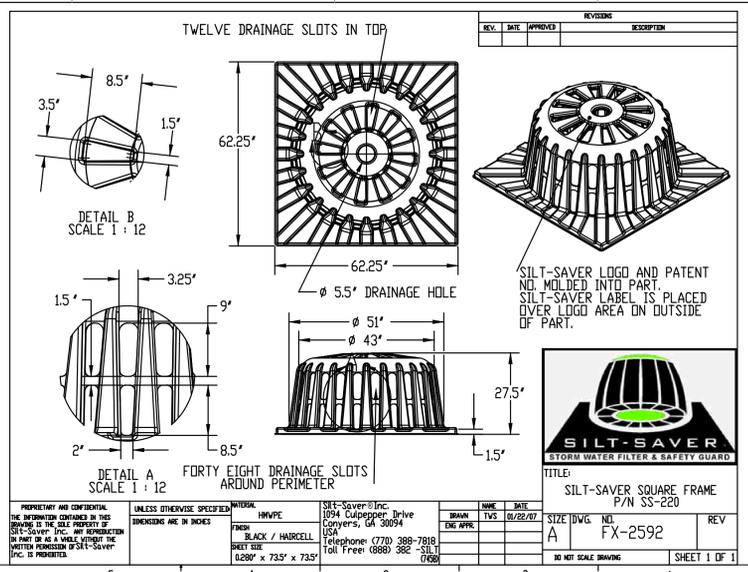
**SLOPE STABILIZATION**

**Temporary Erosion Control Blankets**  
 This includes temporary combination blankets (rolled erosion control blankets-RECB) consisting of a plastic netting which covers and is interwoven with a natural organic or manmade mulch; or, a jute mesh which is typically homogeneous in design and can act alone as a soil stabilization blanket.  
 Temporary blankets as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5 ft/sec and slopes 2.5:1 or steeper with a height of 10 feet or greater. Because temporary blankets will deteriorate in a short period of time, they provide no enduring reduction in erosion protection.  
 Benefits of using erosion control blankets include the following:  
 1. Protection of the seed and soil from raindrop impact and subsequent displacement.  
 2. Thermal consistency and moisture retention for seedbed area.  
 3. Stronger and faster germination of grasses and legumes.  
 4. Planting off excess stormwater runoff.  
 5. Prevention of sloughing of topsoil added to steeper slopes.  
**Permanent Erosion Control Matting**  
 Consists of a permanent non-degradable, three-dimensional plastic structure which can be filled with soil prior to planting. These mats are also known as permanent soil reinforcing mats (turf reinforcement matting). Roots penetrate and become entangled in the matrix, forming a continuous anchorage for surface growth and promoting enhanced energy dissipation. Matting shall be used when a vegetative lining is desired in stormwater conveyance channels where the velocity is between five and ten feet per second.  
 Benefits of using erosion control matting include the following:  
 1. All benefits gained from using erosion control blankets.  
 2. Causes soil to drop out of stormwater and fill matrix with fine soils which become the growth medium for the development of roots.  
 3. Acts with the vegetative root system to form an erosion resistant cover which resists hydraulic lift and shear forces when embedded in the soil within stormwater channels.  
**Materials**  
 All blanket and matting materials shall be on the Georgia Department of Transportation Qualified Products List (QPL #62 for blankets, QPL #49 for matting).  
 All blankets shall be nontoxic to vegetation and to the germination of seed and shall not be injurious to the unprotected skin of humans. At a minimum, the plastic netting shall be interwoven with the mulching material/fiber to maximize strength and provide for ease of handling.  
**Temporary Blankets**  
 Machine produced temporary combination blankets shall have a consistent thickness with the organic material evenly distributed over the entire blanket area. All combination blankets shall have a minimum width of 48 inches. Machine produced combination blankets include the following:  
 1. Straw blankets are combination blankets that consist of weed-free straw from agricultural crops formed into a blanket. Blankets with a top side of photodegradable plastic mesh with a maximum mesh size of 5/8 x 5/8 inch and sewn to the straw with biodegradable thread is appropriate for slopes. The blanket shall have a minimum thickness of 3/8 inch and minimum dry weight of 0.5 pounds per square yard.  
 2. Excelsior blankets are combination blankets that consist of curled wood excelsior (80% of fibers are six inches or longer) formed into a blanket. The blanket shall have clear markings indicating the top side of the blanket and be amolder resistant. Blankets shall be photodegradable plastic mesh having a maximum mesh size of 1 1/2 x 3 inches. The blanket shall have a minimum thickness of 1/4 of an inch and a minimum dry weight of 0.8 pounds per square yard. Slopes require excelsior matting with the top side of the blanket covered in the plastic mesh, and for waterways, both sides of the blanket require plastic mesh.  
 3. Coconut fiber blankets are combination blankets that consist of 100% coconut fiber formed into a blanket. The minimum thickness of the blanket shall be 1/4 of an inch with a minimum dry weight of 0.5 pounds per square yard. Blankets shall have photodegradable plastic mesh, with a maximum mesh size of 5/8 x 5/8 inch and sewn to the fiber with a breakdown resistant synthetic yarn. Plastic mesh is required on both sides of the blanket is used in waterways. A maximum of two inches is allowable for the stitch pattern and row spacing.  
 4. Wood fiber blankets are combination blankets that consist of reprocessed wood fibers that do not possess or contain any growth or germination inhibiting factors. The blanket shall have a photodegradable plastic mesh, with a maximum mesh size of 5/8 x 3/4 inch, securely bonded to the top of the mat. The blanket shall have a minimum dry weight of 0.35 pounds per square yard. A maximum of two inches is allowable for the stitch pattern and row spacing. This practice shall be applied only to slopes.  
 5. Jute Mesh can be applied to slopes. Jute mesh with a 48 inch width shall show between 76 and 80 warpings and a one yard length shall show between 39 to 43 weftings. The woven mesh shall be at least 45 inches wide. Yarn shall have a unit weight of at least 0.9 pounds per square yard, but not more than 1.5 pounds per square yard.  
**Permanent Matting**  
 Permanent matting shall consist of a lofty web of mechanically or melt bonded polymer nettings, monofilaments or fibers which are entangled to form a strong and dimensionally stable matrix. Polymer welding, thermal of polymer fusion, or the placement of fibers between two high strength, biaxially oriented mats bound securely together by parallel lock stitching with polyethylene, nylon or polyester threads are all appropriate bonding methods. Mats shall maintain their shape before, during, and after installation, under dry or water saturated conditions. Mats must be stabilized against ultraviolet degradation and shall be inert to chemicals normally encountered in a natural soil environment.  
 The mat shall conform to the following physical properties:  

Property	Minimum Value
Thickness	0.5 inch
Weight	0.6 PSY
Roll Width	36 inches
Tensile Strength	15 lbs./in.
Length (50% elongation)	20 lbs./in.
Length (ultimate)	20 lbs./in.



**SURFACE ROUGHENING CUT SLOPES STEEPER THAN 3:1 AND FILL SLOPES STEEPER THAN 3:1**



ISSUE	DATE
100% CDS	09.05.2019

MILL VILLAGE PARK  
 DOUGLASVILLE, GEORGIA

GMC# CATL190035  
 NOT FOR CONSTRUCTION

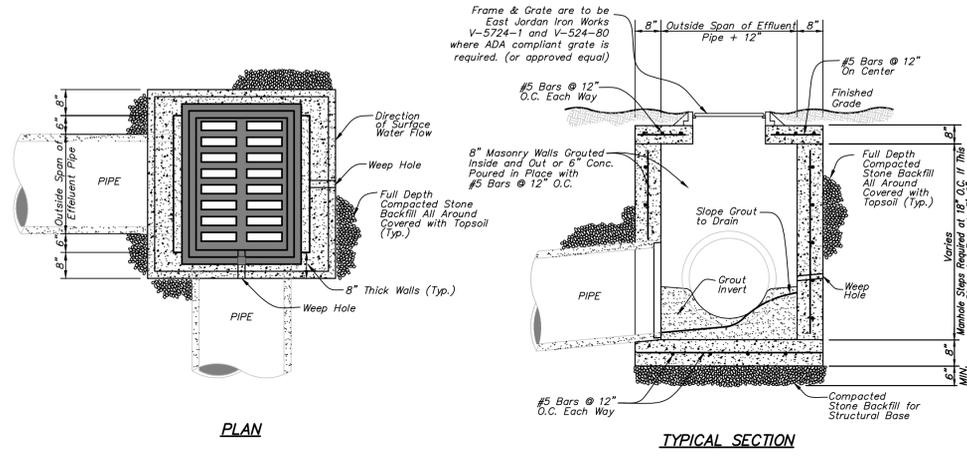
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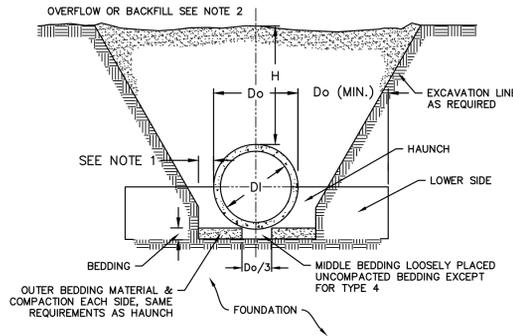
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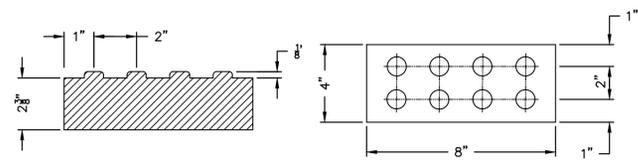
**Standard Flat Grate Inlet Detail**  
N.T.S.



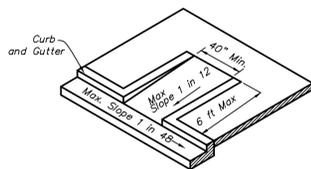
1. CLEARANCE BETWEEN PIPE & TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIED COMPACTION BUT NOT MORE THAN  $D_o/6$ .
2. OVERFILL OR BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO A1, A3, A2-4, A2-5 OR A4.
3. COMPACTION SHALL BE ACCORDING WITH TABLE NO. 1. PROCTOR STANDARD DENSITY SHALL FOLLOW THE AASHTO T-99, T310.
4. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE OWNER AND THE ENGINEER OF RECORD SHALL BE NOTIFIED.
5. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
6. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS A GEOTECHNICAL ANALYSIS IS MADE AND THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
7. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO PLACEMENT OF THE PIPE.

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH & OUTER BEDDING	LOWER SIDE
TYPE 1	$D_o/24$ MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE $D_o/12$ MINIMUM; NOT LESS THAN 6".	95% PROCTOR STANDARD FOR SOIL A1 & A3	UNDISTURBED NATURAL SOIL WITH FINENESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% PROCTOR STANDARD FOR SOIL A2-4 & A2-5 OR EMBANKMENT TO THE SAME REQUIREMENTS
TYPE 2	$D_o/24$ MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE $D_o/12$ MINIMUM; NOT LESS THAN 6".	90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 90% FOR SOILS A2-4, A2-5 & A4	UNDISTURBED NATURAL SOIL WITH FINENESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 80% PROCTOR STANDARD FOR SOIL A1 & A3 OR 90% PROCTOR STANDARD FOR SOIL A2-4, A2-5 & A4 OR EMBANKMENT TO THE SAME REQUIREMENTS

**TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE**  
N.T.S.



**DETECTABLE WARNING PAVER**  
N.T.S.



**TYPICAL CURB CUT FOR ACCESSIBLE RAMP**  
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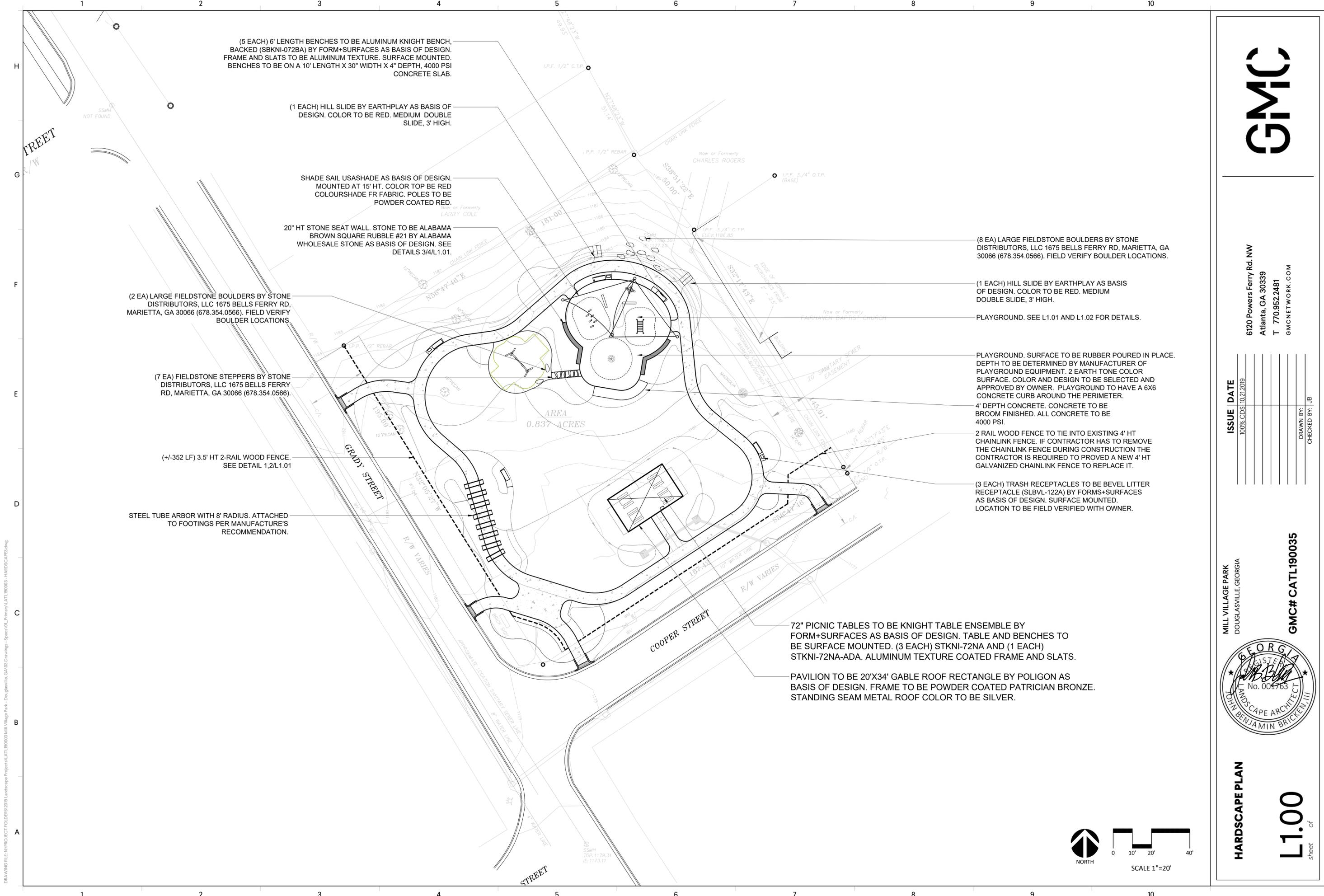
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DETAILS



(5 EACH) 6' LENGTH BENCHES TO BE ALUMINUM KNIGHT BENCH, BACKED (SBKNI-072BA) BY FORM+SURFACES AS BASIS OF DESIGN. FRAME AND SLATS TO BE ALUMINUM TEXTURE. SURFACE MOUNTED. BENCHES TO BE ON A 10' LENGTH X 30" WIDTH X 4" DEPTH, 4000 PSI CONCRETE SLAB.

(1 EACH) HILL SLIDE BY EARTHPLAY AS BASIS OF DESIGN. COLOR TO BE RED. MEDIUM DOUBLE SLIDE, 3' HIGH.

SHADE SAIL USASHADE AS BASIS OF DESIGN. MOUNTED AT 15' HT. COLOR TOP BE RED COLOURSHADE FR FABRIC. POLES TO BE POWDER COATED RED.

20" HT STONE SEAT WALL. STONE TO BE ALABAMA BROWN SQUARE RUBBLE #21 BY ALABAMA WHOLESALE STONE AS BASIS OF DESIGN. SEE DETAILS 3/4/L1.01.

(2 EA) LARGE FIELDSTONE BOULDERS BY STONE DISTRIBUTORS, LLC 1675 BELLS FERRY RD, MARIETTA, GA 30066 (678.354.0566). FIELD VERIFY BOULDER LOCATIONS

(7 EA) FIELDSTONE STEPPERS BY STONE DISTRIBUTORS, LLC 1675 BELLS FERRY RD, MARIETTA, GA 30066 (678.354.0566).

(+/-352 LF) 3.5' HT 2-RAIL WOOD FENCE. SEE DETAIL 1,2/L1.01

STEEL TUBE ARBOR WITH 8' RADIUS. ATTACHED TO FOOTINGS PER MANUFACTURE'S RECOMMENDATION.

(8 EA) LARGE FIELDSTONE BOULDERS BY STONE DISTRIBUTORS, LLC 1675 BELLS FERRY RD, MARIETTA, GA 30066 (678.354.0566). FIELD VERIFY BOULDER LOCATIONS.

(1 EACH) HILL SLIDE BY EARTHPLAY AS BASIS OF DESIGN. COLOR TO BE RED. MEDIUM DOUBLE SLIDE, 3' HIGH.

PLAYGROUND. SEE L1.01 AND L1.02 FOR DETAILS.

PLAYGROUND. SURFACE TO BE RUBBER POURED IN PLACE. DEPTH TO BE DETERMINED BY MANUFACTURER OF PLAYGROUND EQUIPMENT. 2 EARTH TONE COLOR SURFACE. COLOR AND DESIGN TO BE SELECTED AND APPROVED BY OWNER. PLAYGROUND TO HAVE A 6X6 CONCRETE CURB AROUND THE PERIMETER.

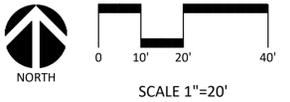
4' DEPTH CONCRETE. CONCRETE TO BE BROOM FINISHED. ALL CONCRETE TO BE 4000 PSI.

2 RAIL WOOD FENCE TO TIE INTO EXISTING 4' HT CHAINLINK FENCE. IF CONTRACTOR HAS TO REMOVE THE CHAINLINK FENCE DURING CONSTRUCTION THE CONTRACTOR IS REQUIRED TO PROVIDE A NEW 4' HT GALVANIZED CHAINLINK FENCE TO REPLACE IT.

(3 EACH) TRASH RECEPTACLES TO BE BEVEL LITTER RECEPTACLE (SLBVL-122A) BY FORMS+SURFACES AS BASIS OF DESIGN. SURFACE MOUNTED. LOCATION TO BE FIELD VERIFIED WITH OWNER.

72" PICNIC TABLES TO BE KNIGHT TABLE ENSEMBLE BY FORM+SURFACES AS BASIS OF DESIGN. TABLE AND BENCHES TO BE SURFACE MOUNTED. (3 EACH) STKNI-72NA AND (1 EACH) STKNI-72NA-ADA. ALUMINUM TEXTURE COATED FRAME AND SLATS.

PAVILION TO BE 20'X34' GABLE ROOF RECTANGLE BY POLIGON AS BASIS OF DESIGN. FRAME TO BE POWDER COATED PATRICIAN BRONZE. STANDING SEAM METAL ROOF COLOR TO BE SILVER.



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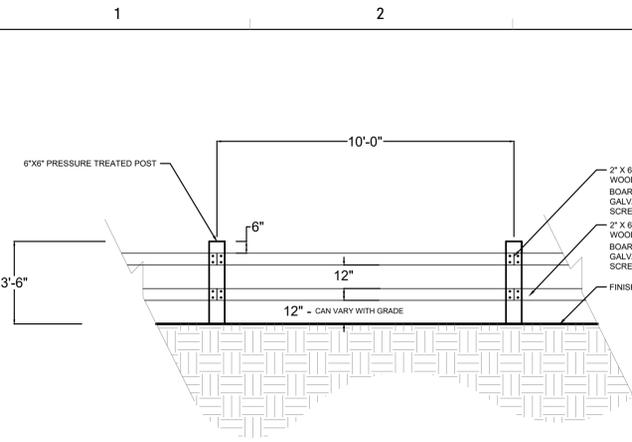
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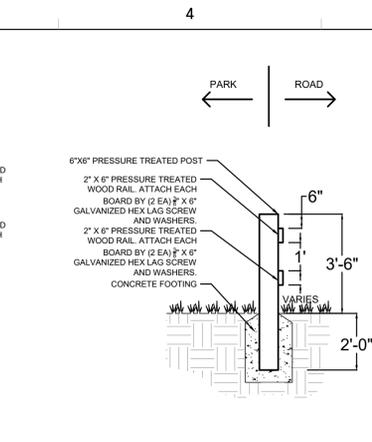
HARDSCAPE PLAN

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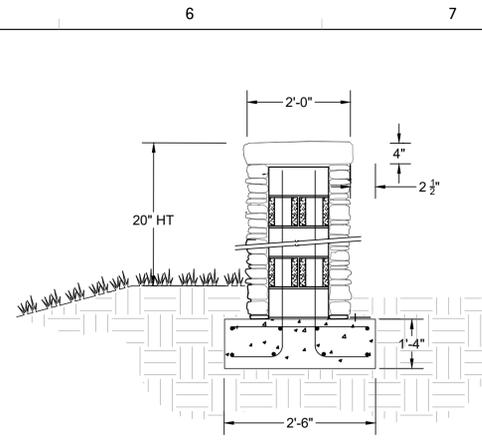
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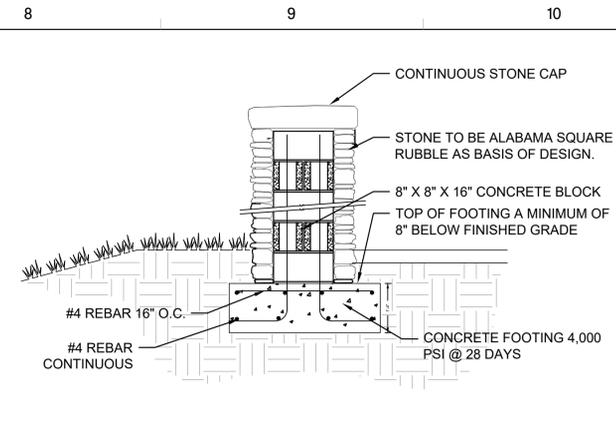
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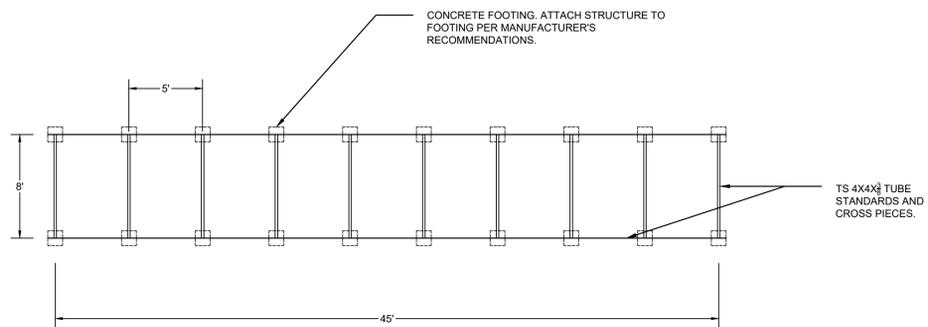
**2 WOOD RAIL FENCE - SECTION**  
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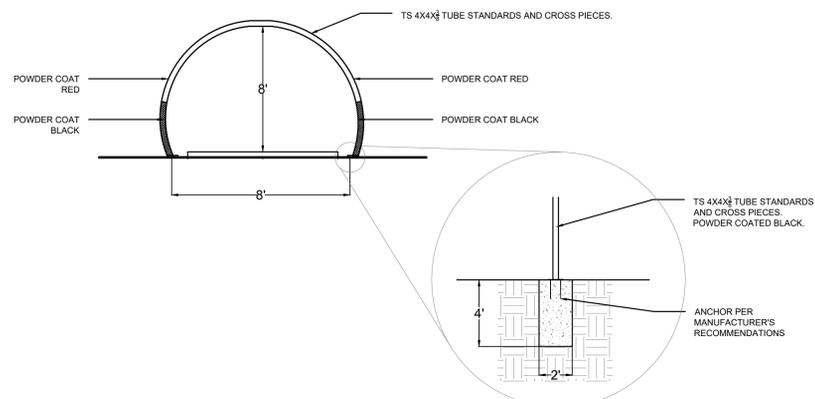
**3 SEAT WALL - SECTION**  
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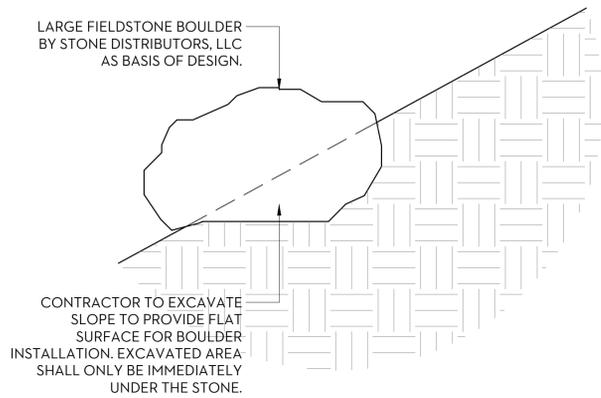
**4 SEAT WALL - SECTION**  
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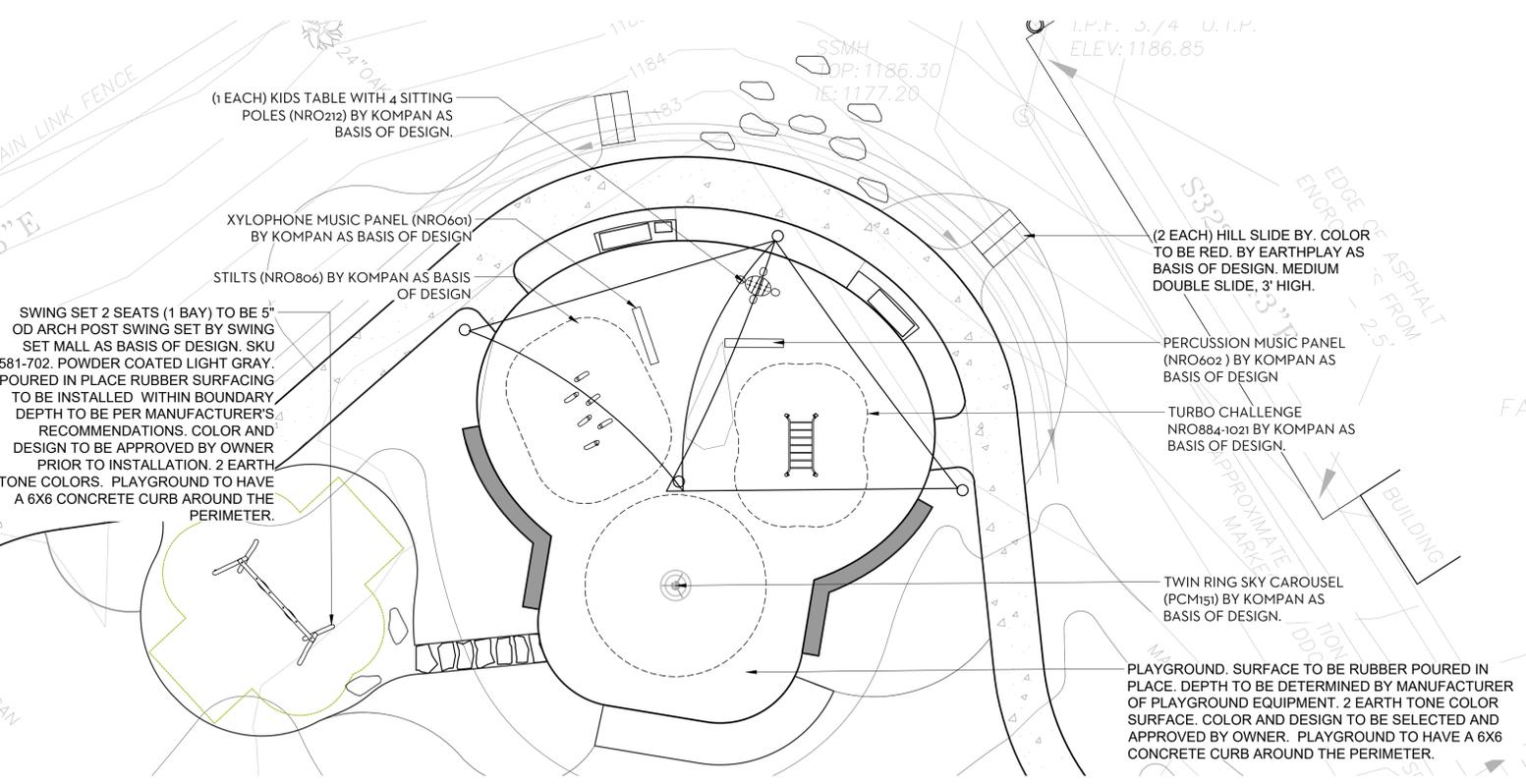
**5 STEEL ARBOR - PLAN**  
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**6 STEEL ARBOR - ELEVATION AND SECTION**  
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**8 BOULDER ON SLOPE - SECTION**  
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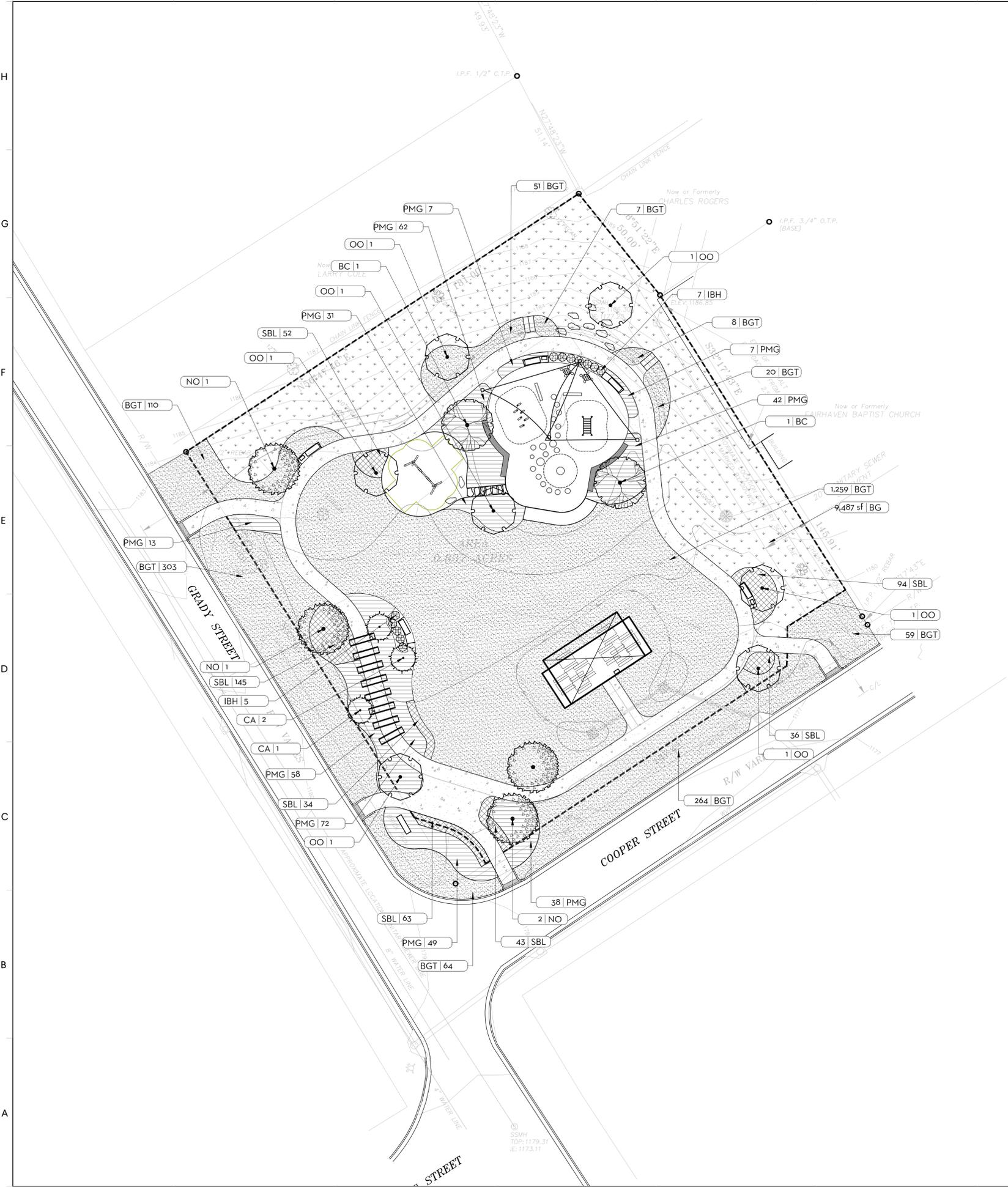






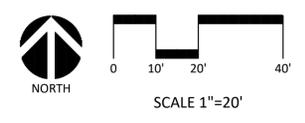


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PLANT SCHEDULE							
<b>TREES</b>							
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL/SIZE	REMARKS		
CA	3	Carpinus caroliniana / American Hornbeam	B & B				
OO	7	Quercus lyrata / Overcup Oak	B & B	2.5" Cal			
NO	4	Quercus nuttallii / Nuttall Oak	B & B	2.5" Cal			
BC	2	Taxodium distichum / Bald Cypress	B & B	2.5" Cal			
<b>SHRUBS</b>							
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING	REMARKS	
IBH	12	Ilex glabra 'Shamrock' / Inkberry	3 gal		42" o.c.		
<b>GROUND COVERS</b>							
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING	REMARKS	
SBL	467	Liriope muscari 'Super Blue' / Super Blue Liriope	4" pot		18" o.c.		
PMG	379	Muhlenbergia capillaris / Pink Muhly	4" pot		36" o.c.		
<b>SOD/SEED</b>							
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING	REMARKS	
BG	9,487 sf	Cynodon dactylon / Bermuda Grass	hydroseed		s.f.		
BGT	2,145 sy	Cynodon dactylon 'Tif 419' / Bermuda Grass	sod		s.y.		

- NOTES:**
- CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL AND SOD DURING CONSTRUCTION UNTIL SUBSTANTIAL COMPLETION HAS BEEN ACHIEVED.
  - CONTRACTOR IS TO PROVIDE ALL TREES WITH TREE DIAPERS TREEDIAPER36 - MODEL#1036VA AS BASIS OF DESIGN.
  - ALL DISTURBED AREAS NOT COVERED WITH PLANT MATERIAL OR SOD ARE TO BE HYDROSEEDED PER GDOT SEASONAL SCHEDULE AND RATE.



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