

GATEWAY PLAZA FOR DUSTIN MCCAIN LIBERTY COUNTY, GEORGIA

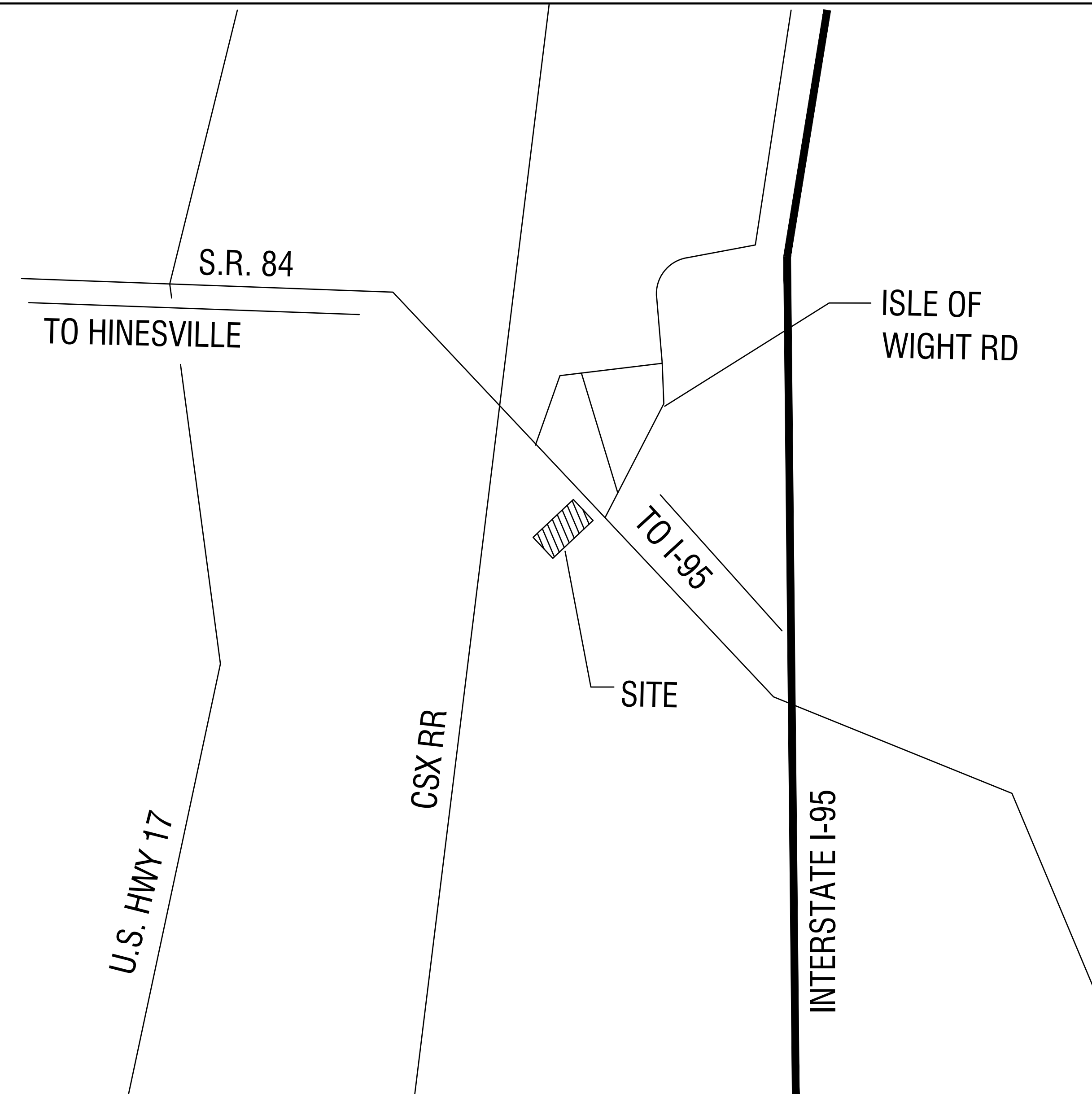
DATE: JUNE 29, 2022

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DESCRIPTION

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DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	—SS—	—SS—
UNDERGROUND WATER LINE	—W—	—W—
FORCE MAIN	—FM—	—FM—
STORM DRAINAGE PIPE	—SD—	—SD—
UNDERGROUND TELEPHONE LINE	—T—	—T—
UNDERGROUND TELEPHONE CONDUIT	—TC—	—TC—
UNDERGROUND GAS LINE	—12" G—	—12" G—
DITCH CENTERLINE	—X—	—X—
SPOT ELEVATION	X	X
TOP OF CURB ELEVATION	X	X
FIRE HYDRANT	⊕	⊕
SEWER MANHOLE	⊕	⊕
WATER VALVE	⊕	⊕
TELEPHONE MANHOLE	⊕	⊕
LIGHT POLE	⊕	⊕
SIGN	⊕	⊕
WATER METER	⊕	⊕
BENCHMARK	⊕	⊕
CONCRETE MONUMENT FOUND	⊕	⊕
GUY POLE	⊕	⊕
IRON PIN FOUND	⊕	⊕
IRON PIN SET	⊕	⊕
TELEPHONE PEDESTAL	⊕	⊕
POWER POLE	⊕	⊕
HANDICAP SPACE	⊕	⊕
SEDIMENT BASIN MARKER W/NOTCH	⊕	⊕



VICINITY MAP
Not To Scale



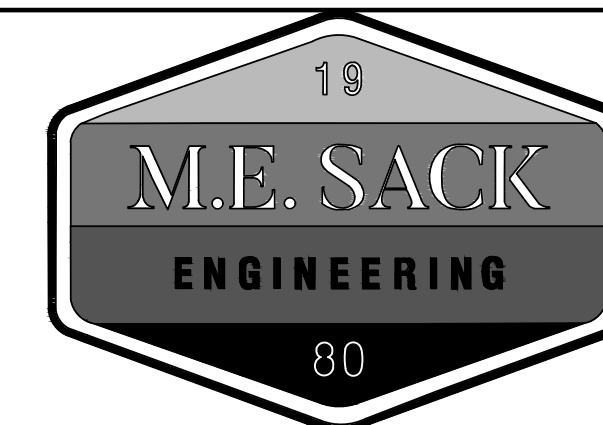
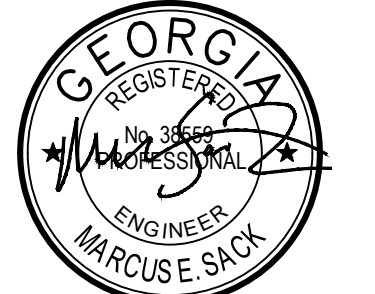
**Know what's below.
Call before you dig.**

Owner:
Dustin McCain
P. O. Box 1517
Hinesville Ga 31310
912-547-7229
dmccain@eroofcs.com

GPS COORDINATES OF CO:
E: -81.400029
N:31.791433
DATUM: NAD83

24 HOUR CONTACT:
Marcus Sack
515 North Main Street
Hinesville Ga, 31313
912-368-5212
marcus@mesack.com

DESIGN PROFESSIONAL:



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GENERAL NOTES

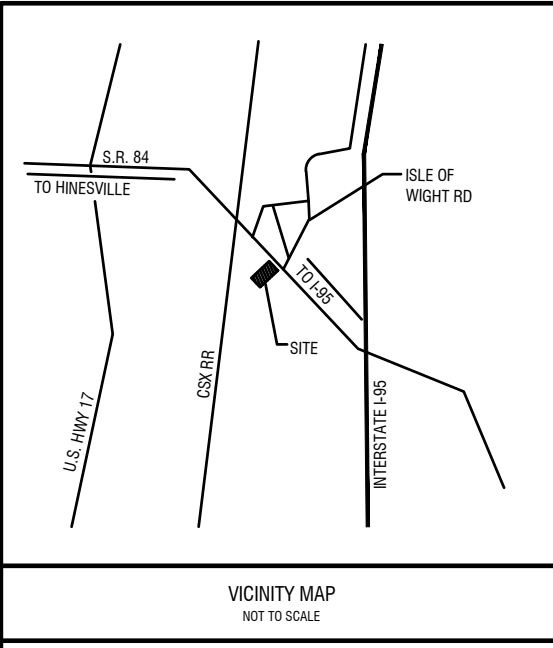
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

JOB NO. 2021-64PRJ

REVISION NO.	DATE	DESCRIPTION
1.		

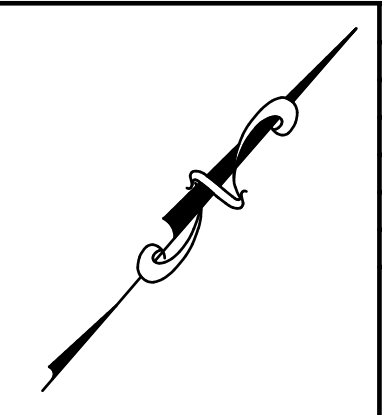
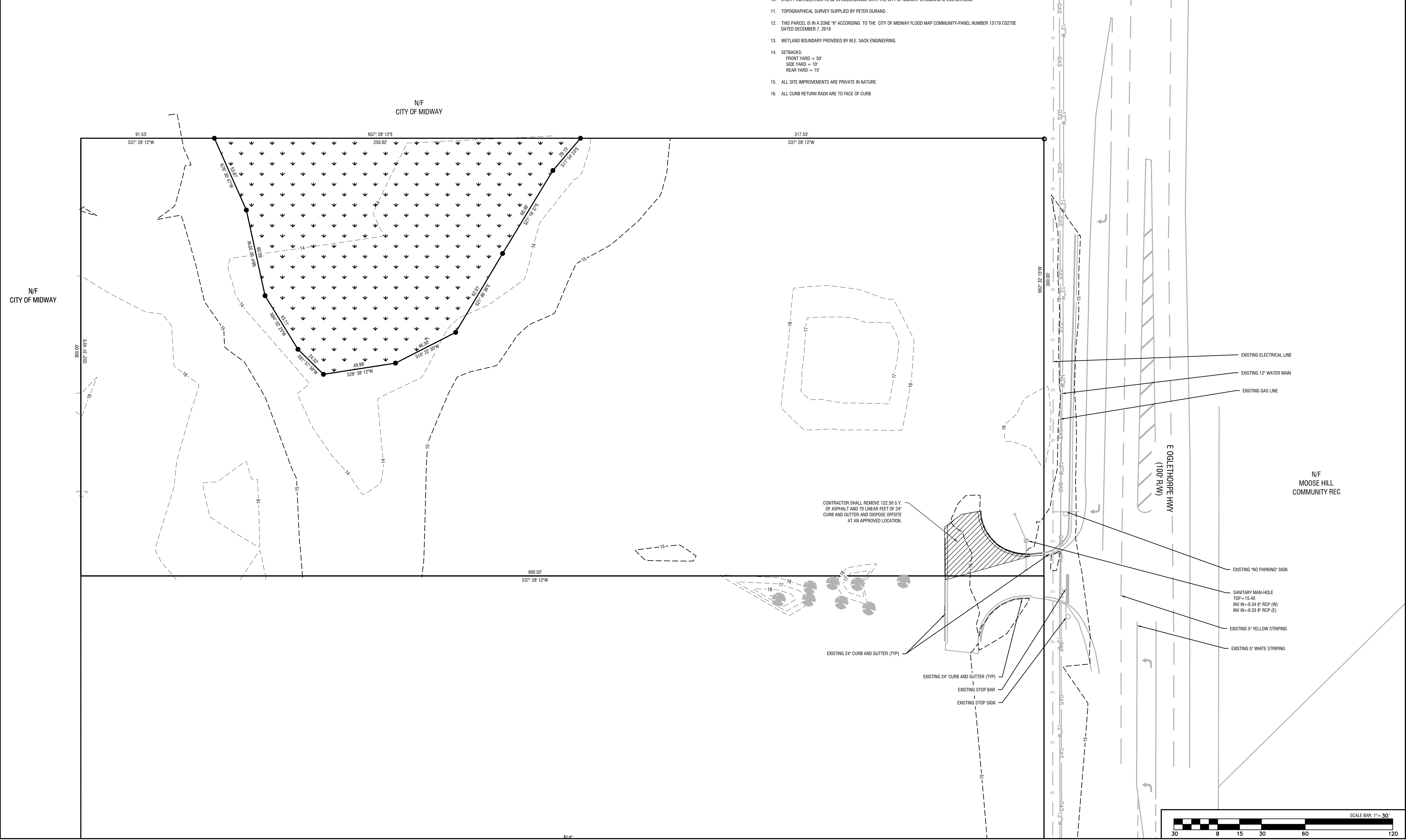
**COVER
SHEET**

PLOT DATE: July 11, 2022



GENERAL NOTES:

- ZONING = F-C
- TOTAL PARCEL ACREAGE = 4.55 AC.
- TOTAL SITE ACREAGE = 3.95
- TOTAL DISTURBED ACREAGE = 3.95
- EROSION AND SEDIMENT CONTROL TO BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- ALL DISTURBED AREAS ARE TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- RIPRAP WILL BE USED TO STABILIZE DITCH BANKS IN AREAS WHERE STORM WATER FLOW CHANGES DIRECTION OR SLOPES ALLOW VELOCITY TO EXCEED 2 FT/SEC.
- UTILITY INSTALLATION TO BE IN ACCORDANCE WITH THE CITY OF MIDWAY STANDARD SPECIFICATIONS.
- TOPOGRAPHICAL SURVEY SUPPLIED BY PETER DURAND.
- THIS PARCEL IS IN A ZONE "X" ACCORDING TO THE CITY OF MIDWAY FLOOD MAP COMMUNITY-PANEL NUMBER 13179 C0270E DATED DECEMBER 7, 2018
- WETLAND BOUNDARY PROVIDED BY M.E. SACK ENGINEERING.
- SETBACKS:
FRONT YARD = 5'
SIDE YARD = 10'
REAR YARD = 15'
- ALL SITE IMPROVEMENTS ARE PRIVATE IN NATURE
- ALL CURB RETURN RADII ARE TO FACE OF CURB



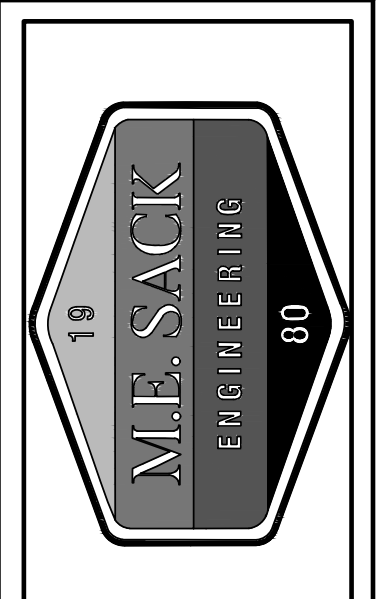
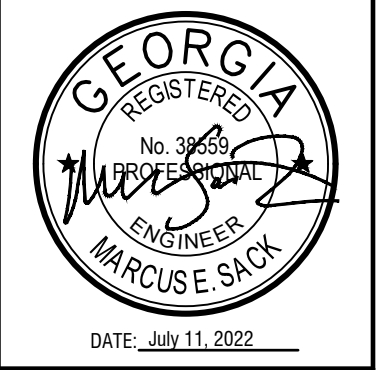
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MUNICIPALITY:
CITY OF MIDWAY

COUNTY:
LIBERTY

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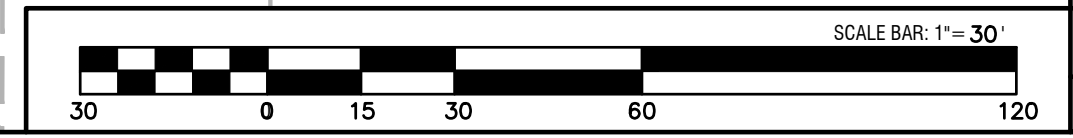
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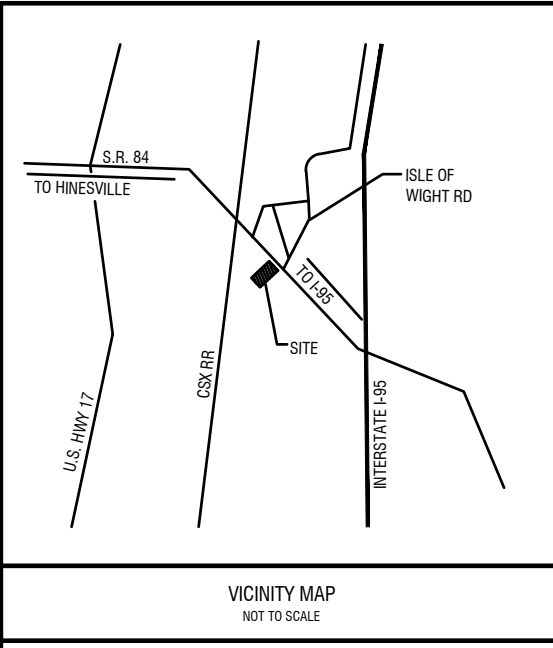
**GATEWAY
PLAZA**

EXISTING
CONDITIONS

C100

FILE NO: 2021-64
PLOT DATE: June 28, 2022





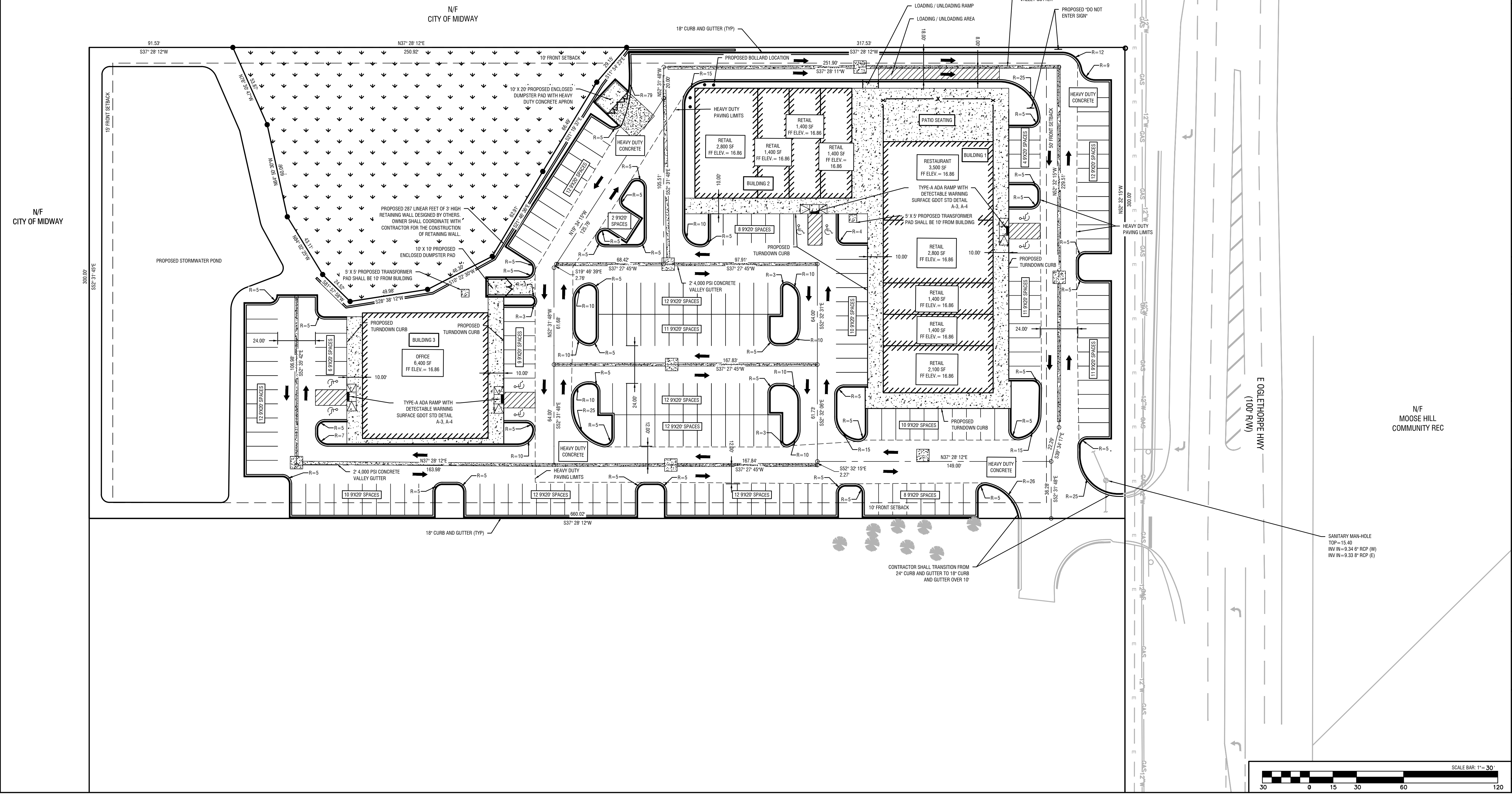
PARKING INFORMATION:

BUILDING 1:
 TOTAL RETAIL SPACE = 7,700 SF @ 200 SF PER SPACE
 TOTAL RESTAURANT SPACE = 3,500 SF @ 75 SF PER SPACE
 TOTAL RETAIL PARKING REQUIRED = 7,700 / 200 = 38.5 SPACES
 TOTAL RESTAURANT PARKING REQUIRED = 3,500 / 75 = 46 + 33 SPACES FOR SEATING = 79 SPACES

BUILDING 2:
 TOTAL RETAIL SPACE = 7,000 SF @ 200 SF PER SPACE
 TOTAL RETAIL PARKING REQUIRED = 7,000 / 200 = 35 SPACES

BUILDING 3:
 TOTAL RETAIL SPACE = 6,400 SF @ 200 SF PER SPACE
 TOTAL RETAIL PARKING REQUIRED = 6,400 / 200 = 32 SPACES

SPACES REQUIRED = 184.5
 SPACES PROVIDED = 193



REVISIONS:

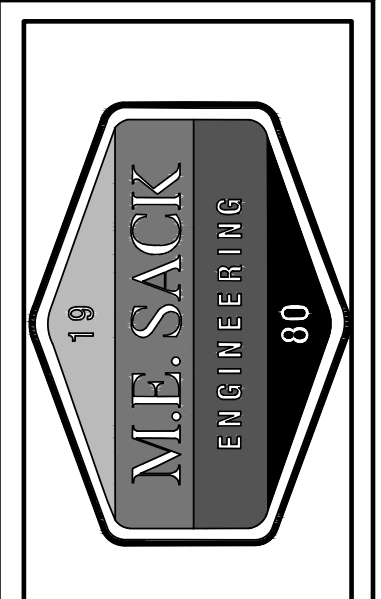
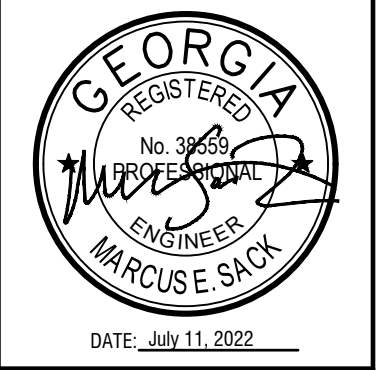
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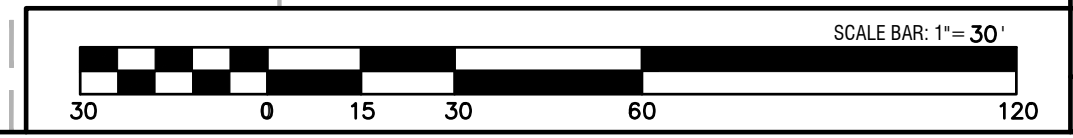
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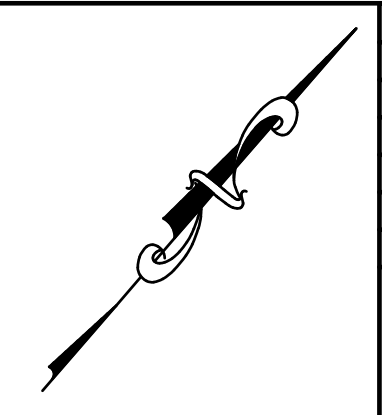
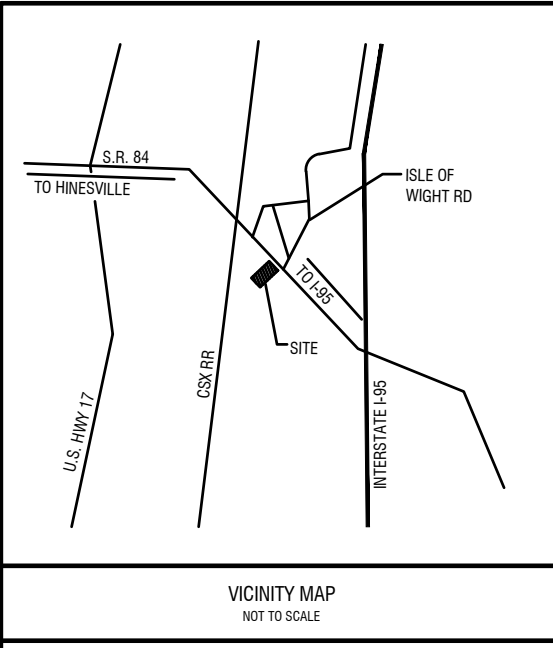
GATEWAY PLAZA

SITE PLAN

C200

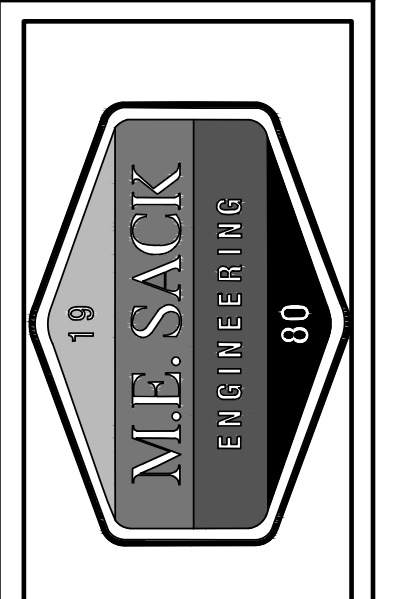
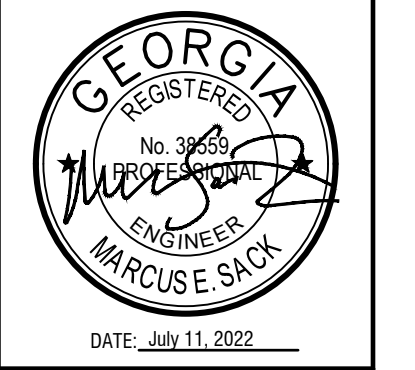
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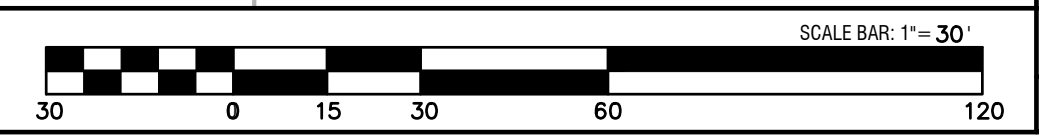
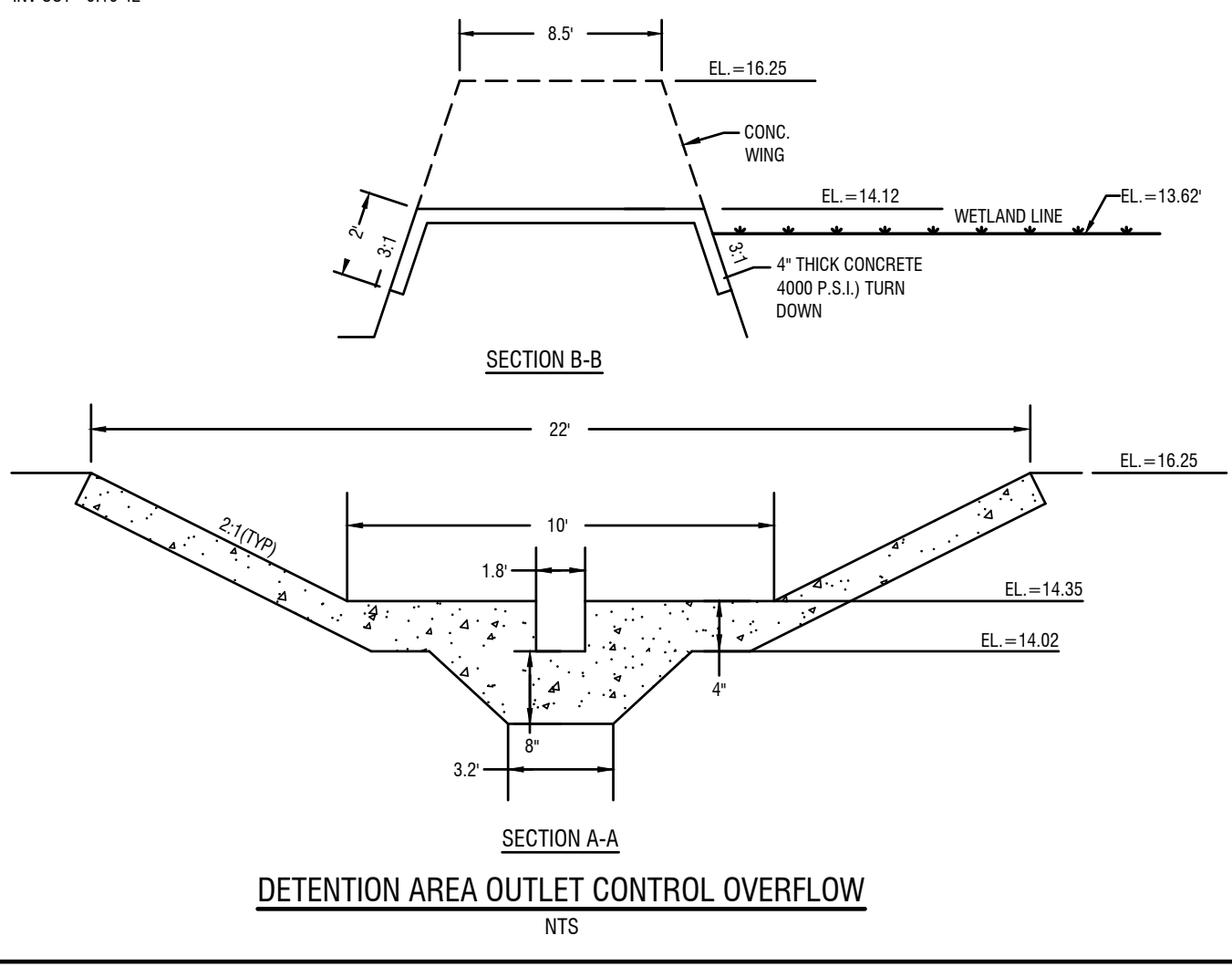
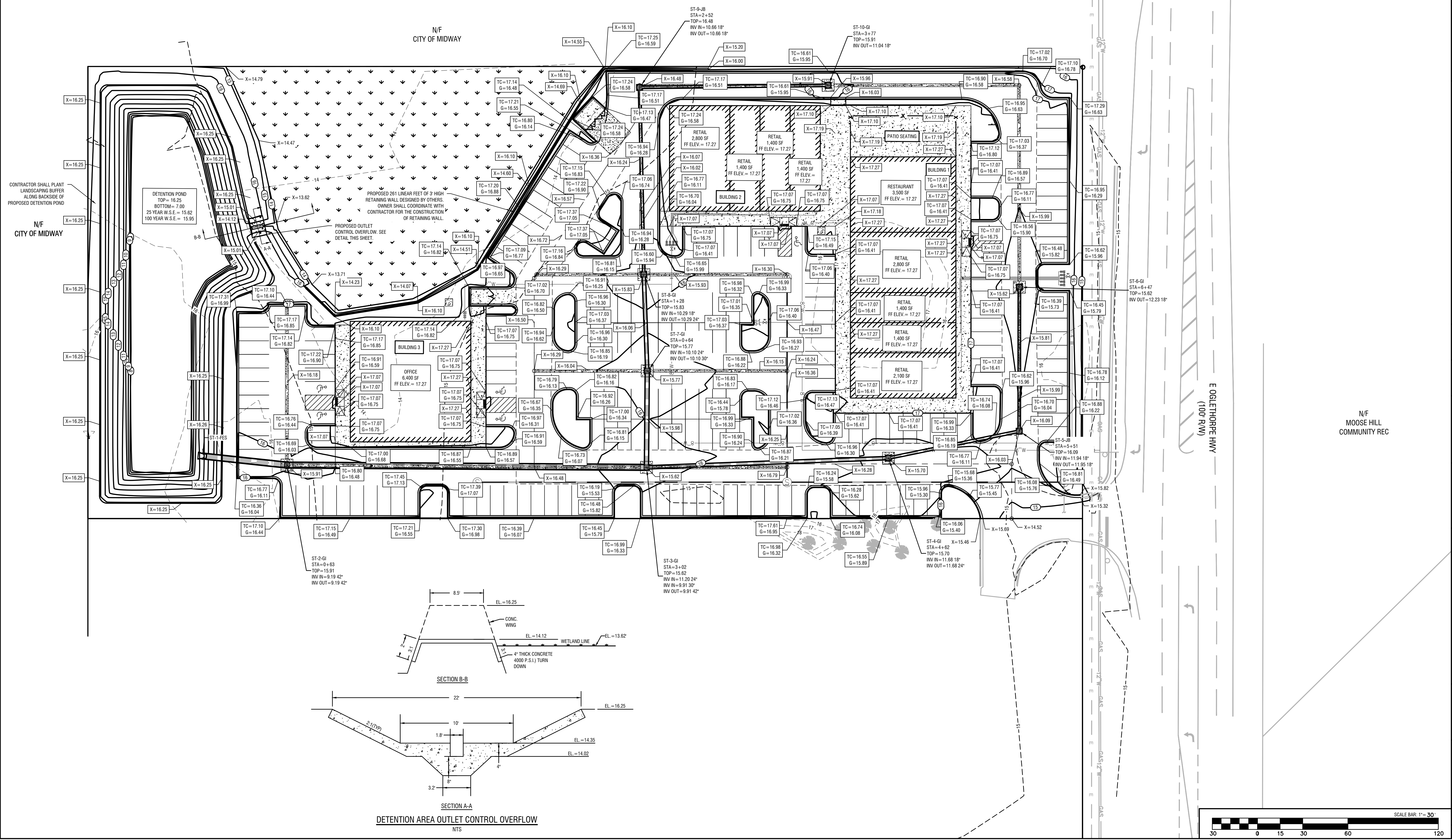
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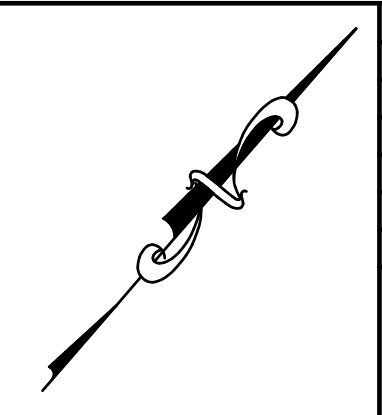
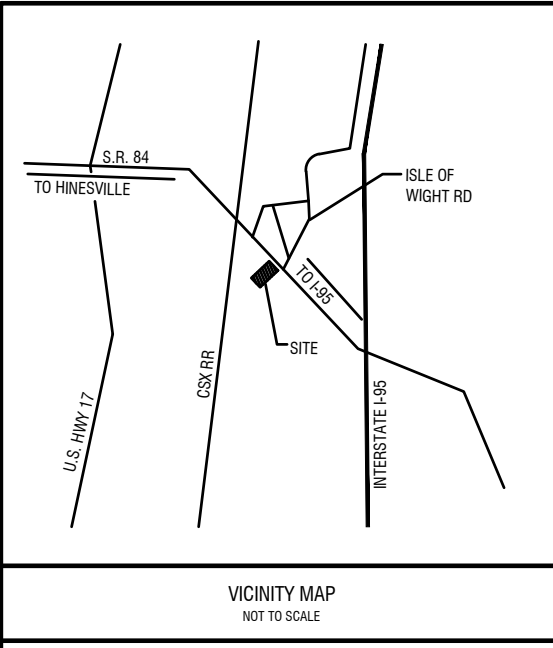
GATEWAY PLAZA

GRADING PLAN

C300

FILE NO: 2021-64
 PLOT DATE: June 28, 2022

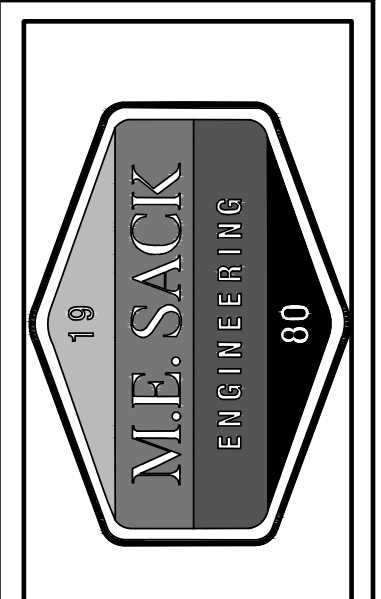
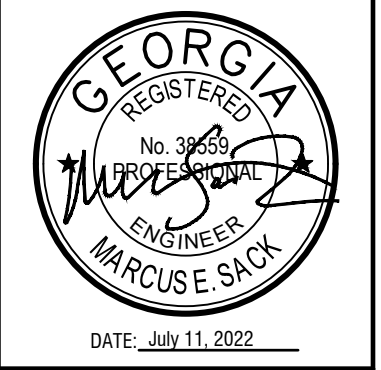




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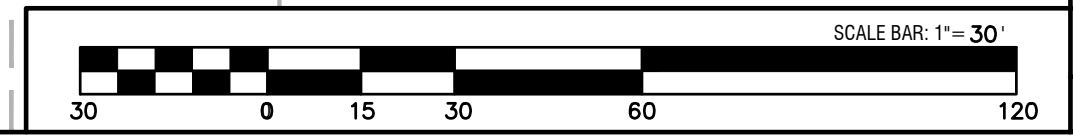
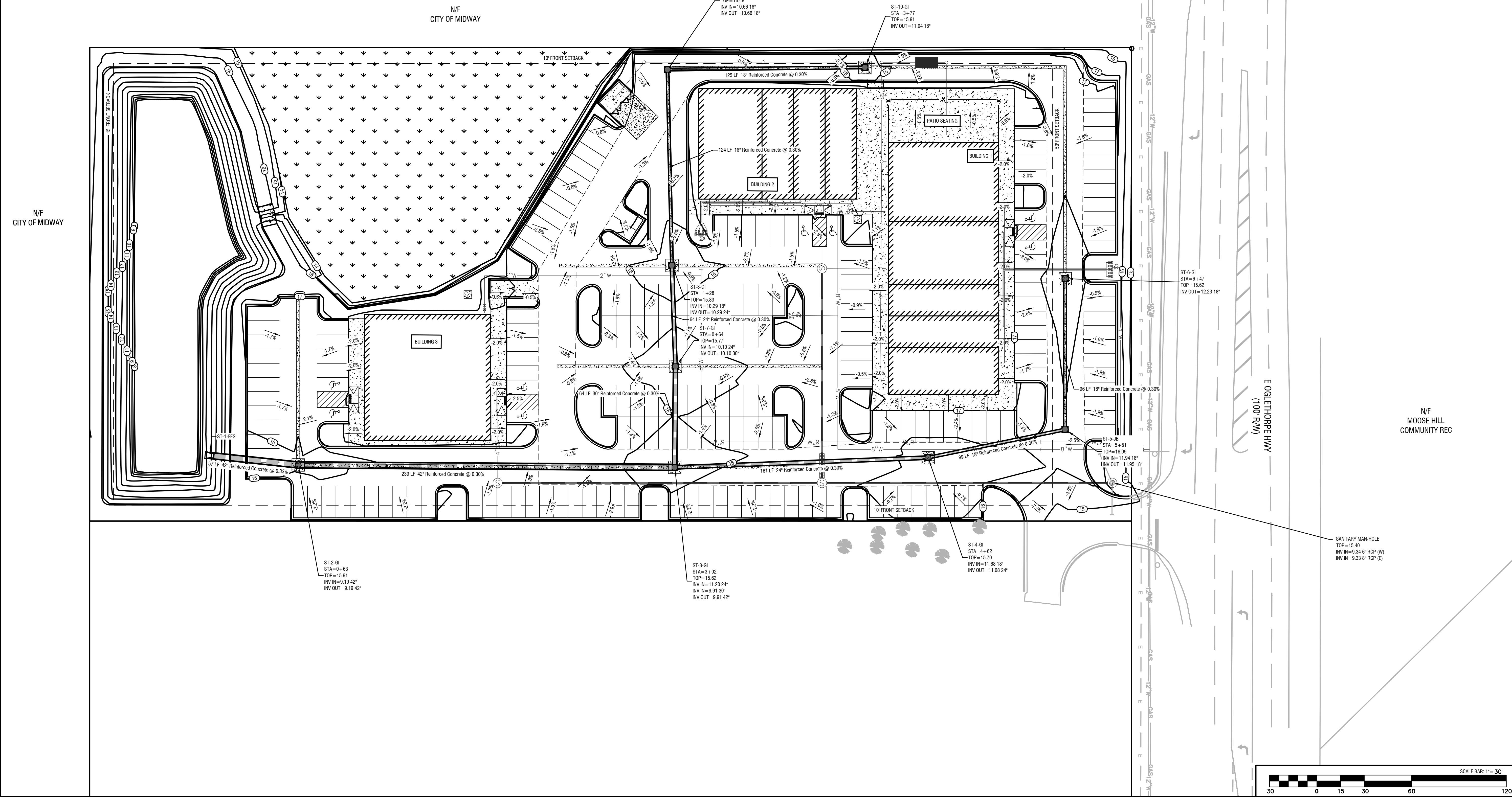
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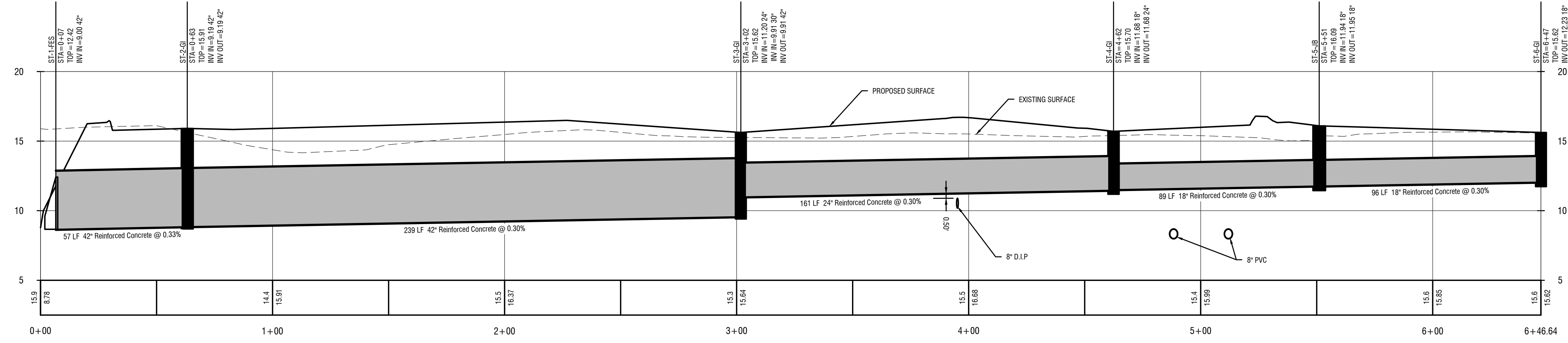
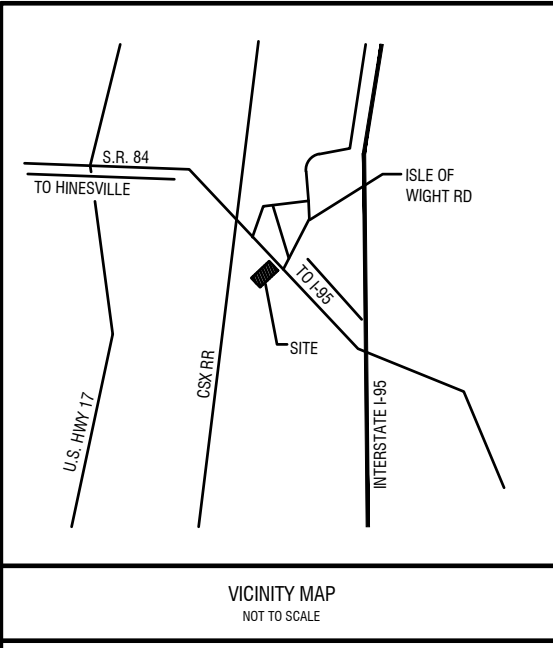
GATEWAY PLAZA

GRADING SLOPE PLAN

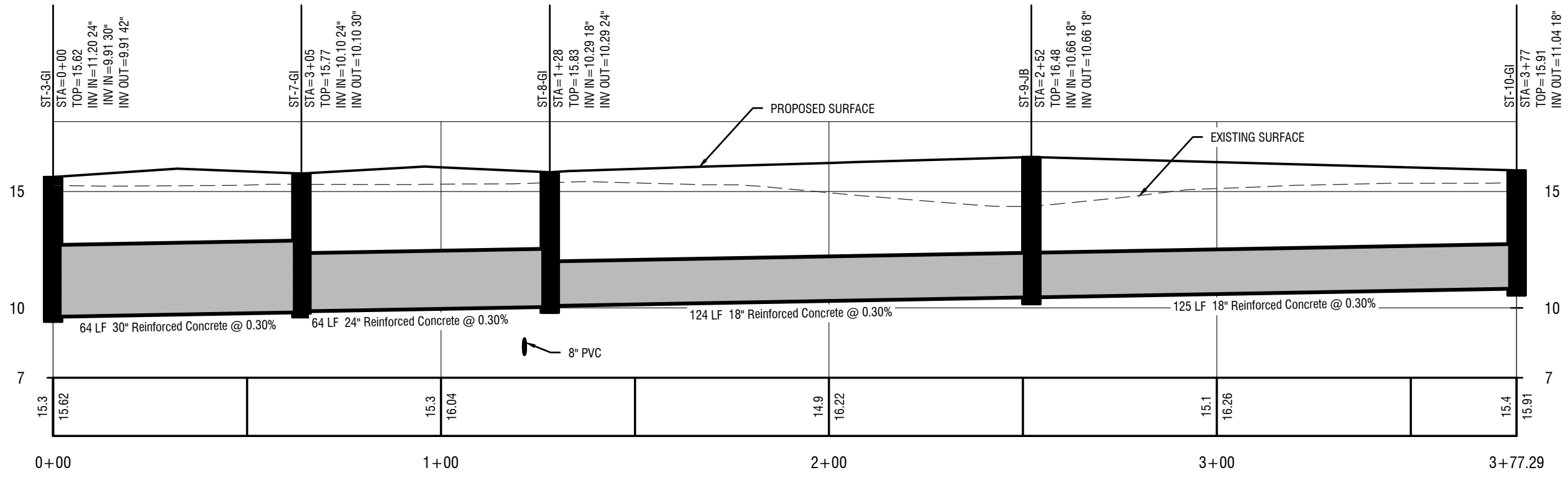
C301

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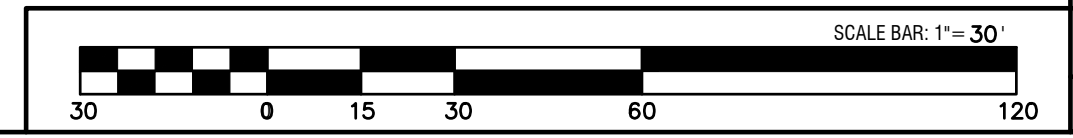




DR-RUN-1 PROFILE
 VERT. SCALE: 1"=5'
 HORIZ. SCALE: 1"=30'



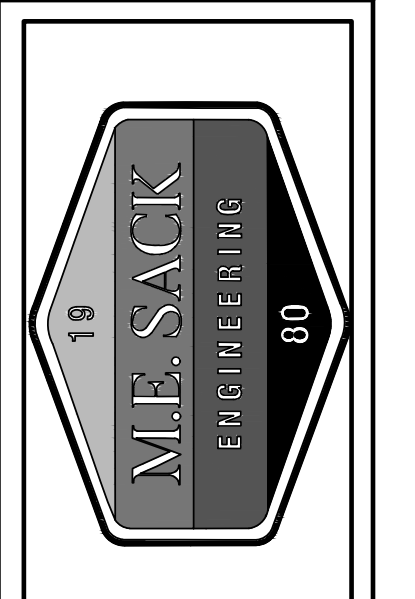
DR-RUN-2 PROFILE
 VERT. SCALE: 1"=5'
 HORIZ. SCALE: 1"=30'



NO.	DESCRIPTION
1.	

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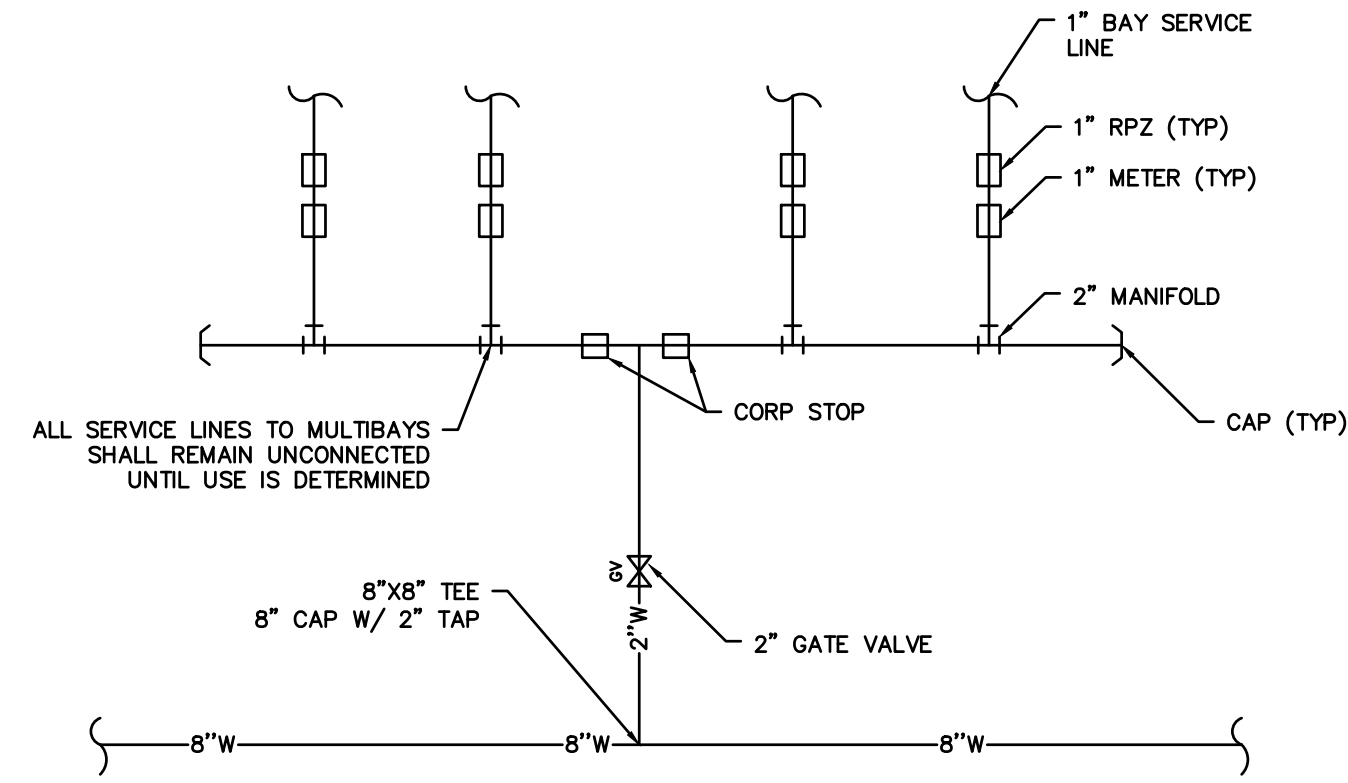
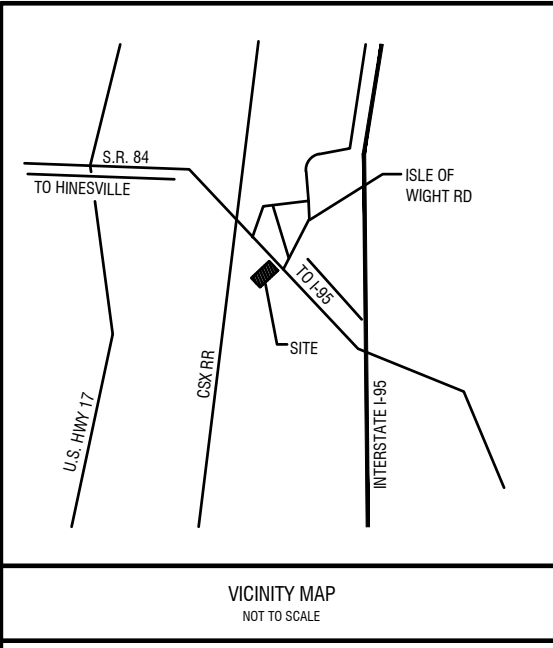
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**GATEWAY
 PLAZA**

**GRADING
 PROFILES**

C302

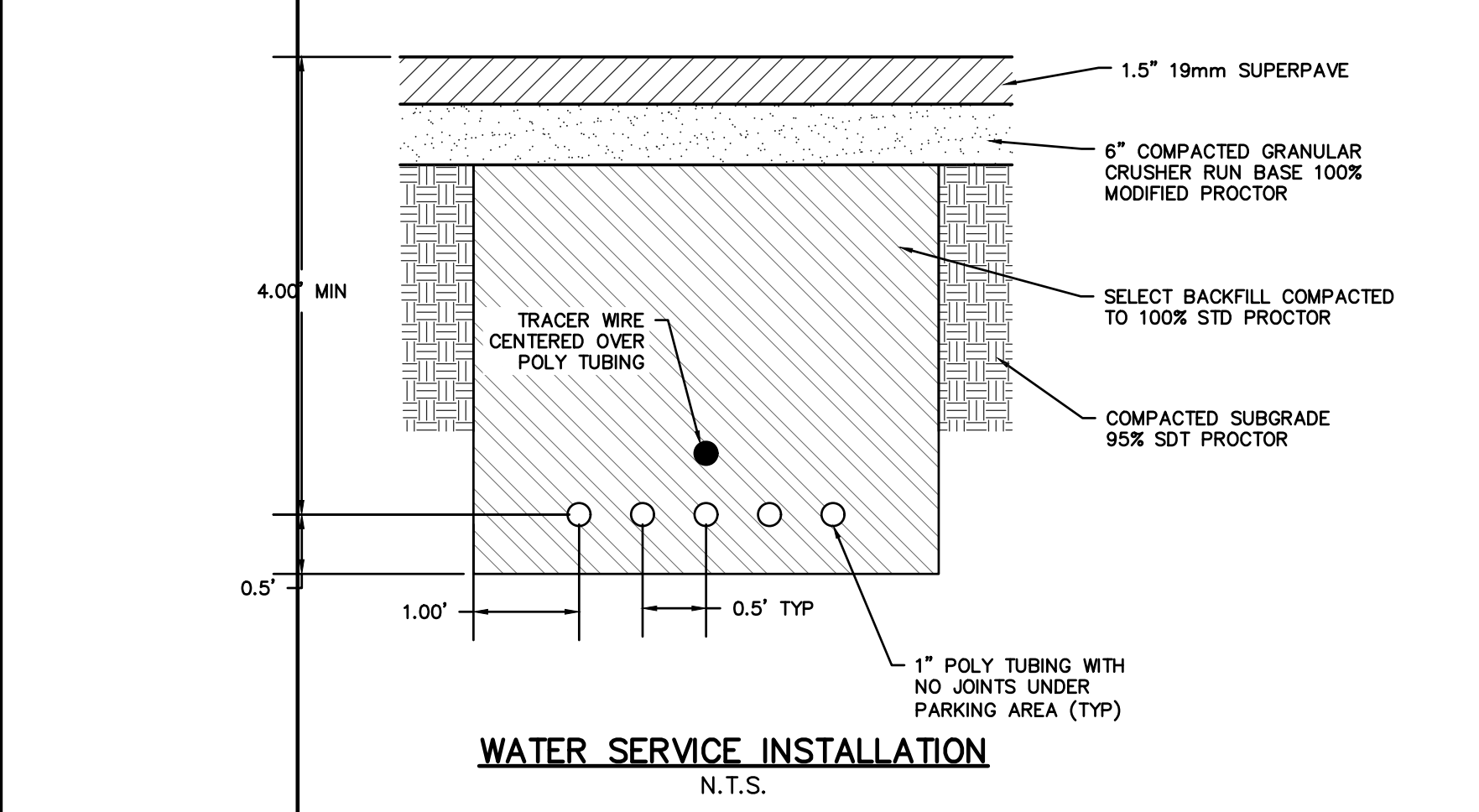
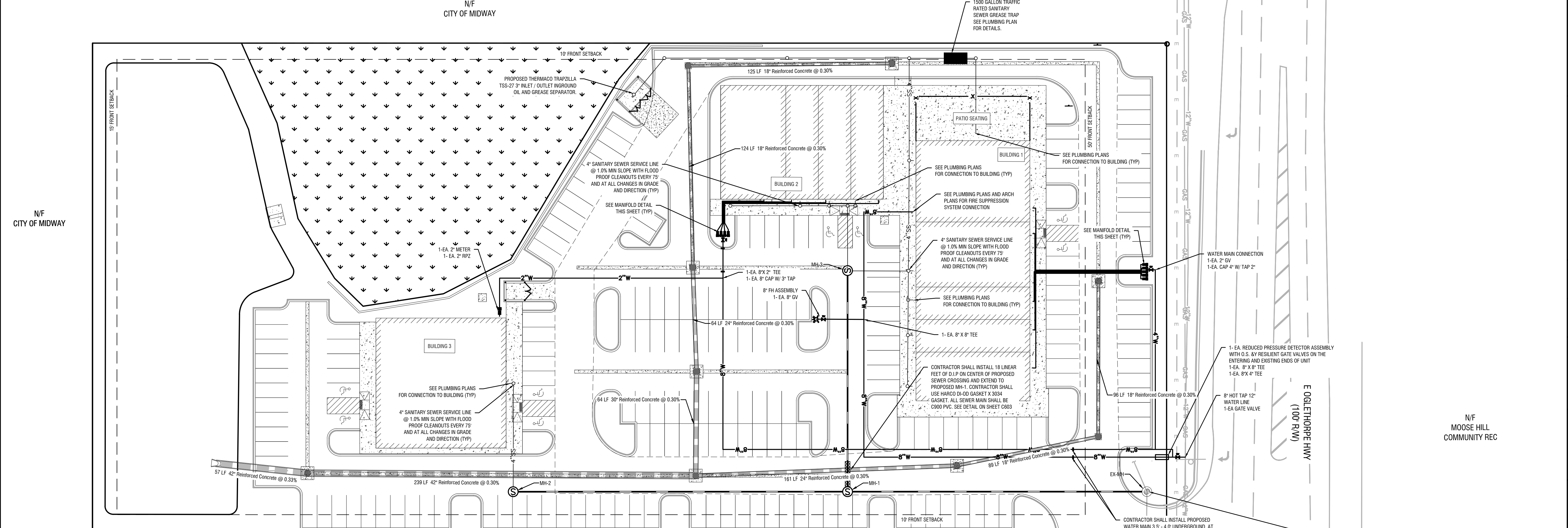
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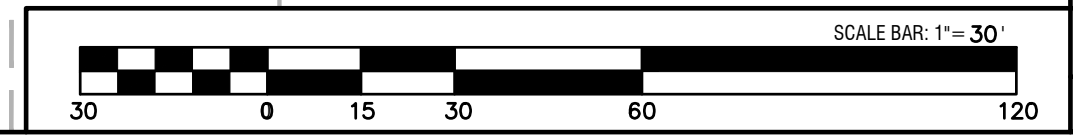
TYPICAL POTABLE WATER MANIFOLD
N.T.S.

NOTES:
1. 4\"/>

NOTES:
1. WATER MAINS CROSSING STORM SEWERS SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER. AT THE CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
2. WHEN A VERTICAL SEPARATION OF 18 INCHES IS NOT POSSIBLE, THE SEWER PASSING OVER OR UNDER WATER MAINS SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION.
3. ALL 8\"/>



WATER SERVICE INSTALLATION
N.T.S.

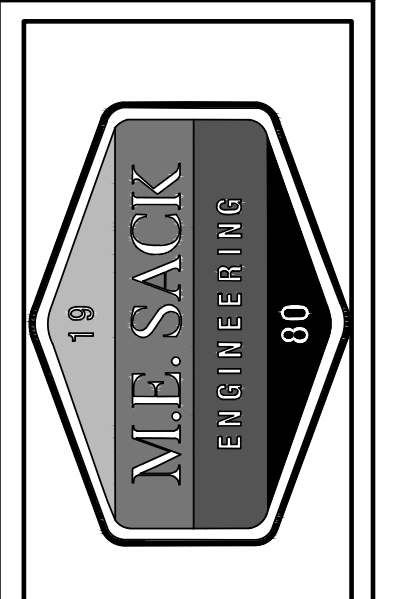
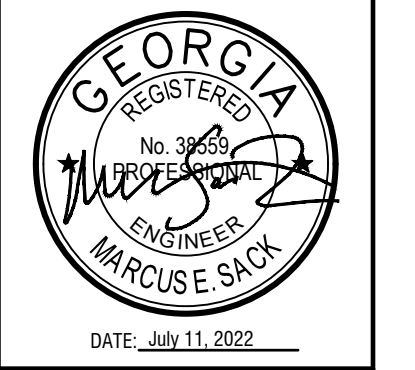


REVISIONS:

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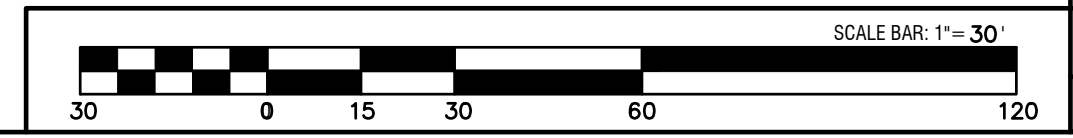
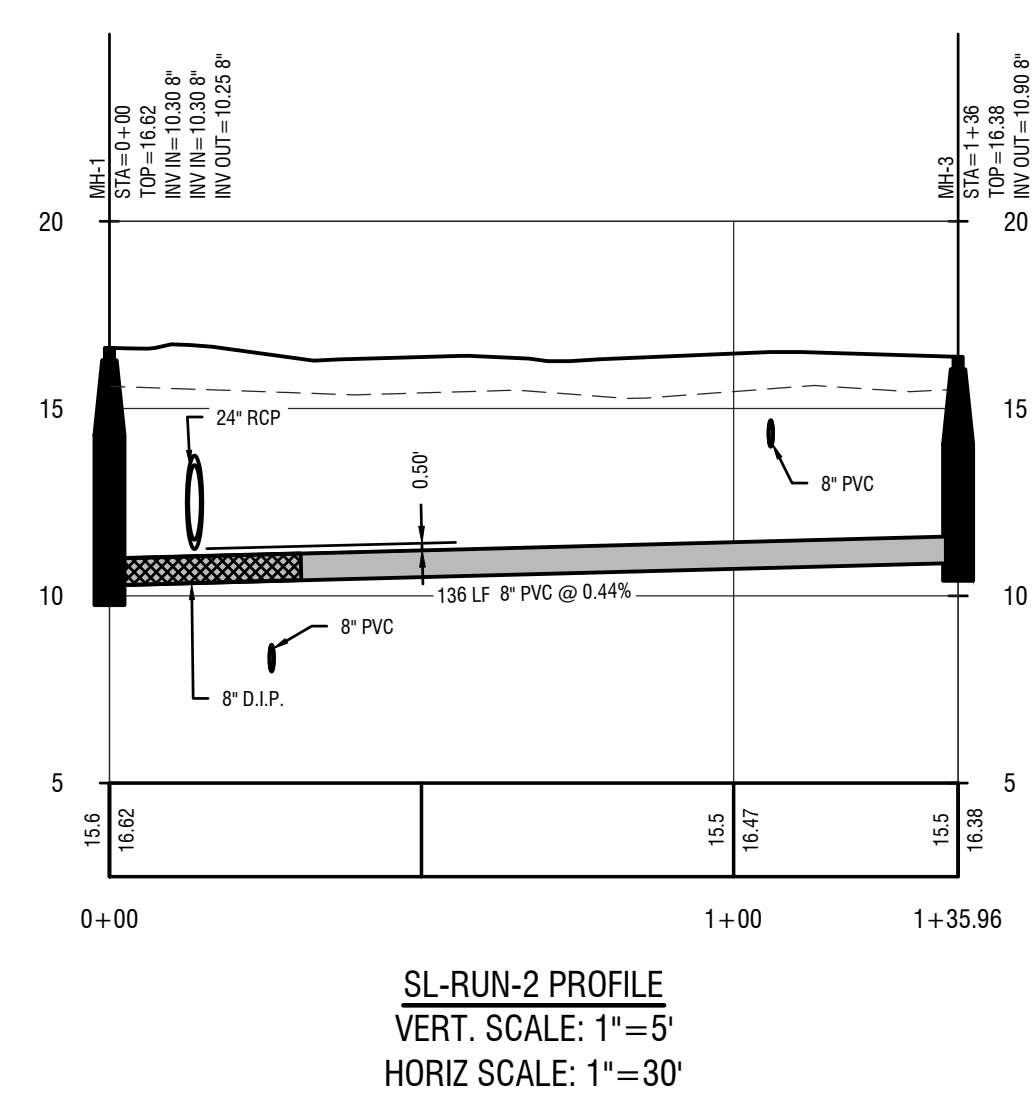
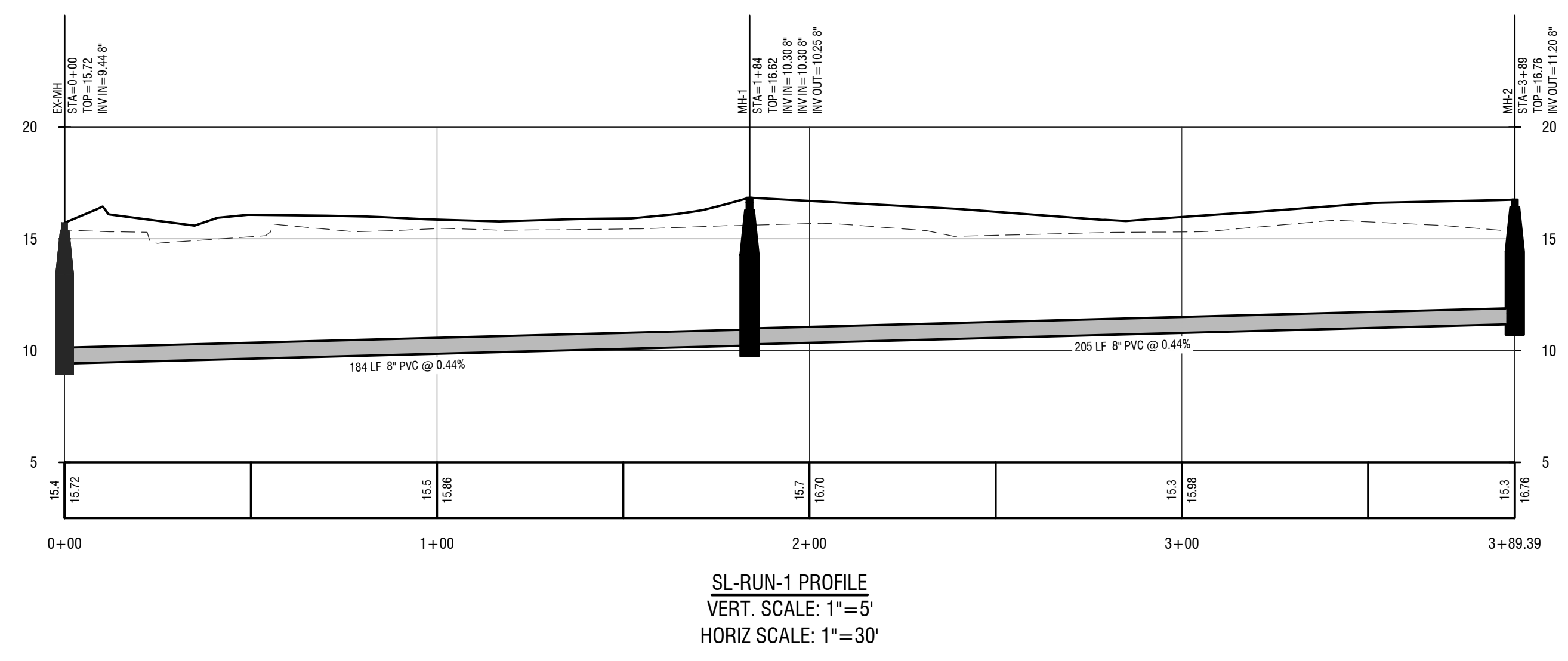
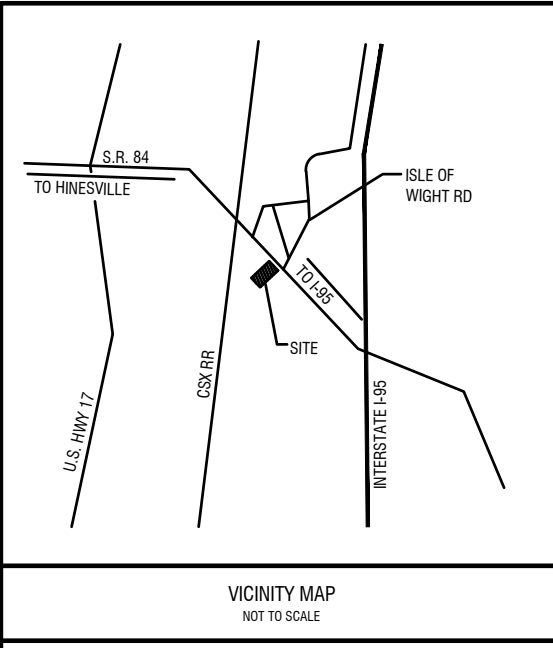
24 HOUR CONTACT:
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GATEWAY PLAZA

UTILITY PLAN

C400

FILE NO: 2021-64
PLOT DATE: June 28, 2022

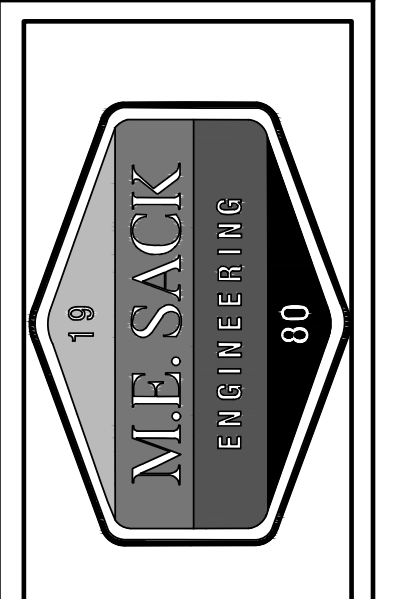
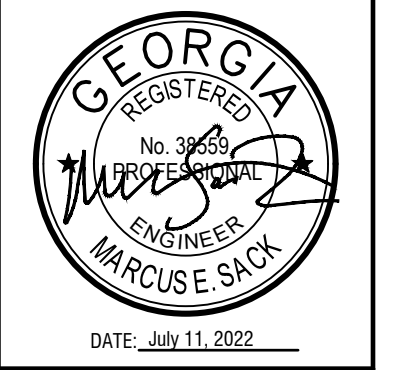


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MUNICIPALITY:
CITY OF MIDWAY

COUNTY:
LIBERTY

Owner:
Dustin McCain
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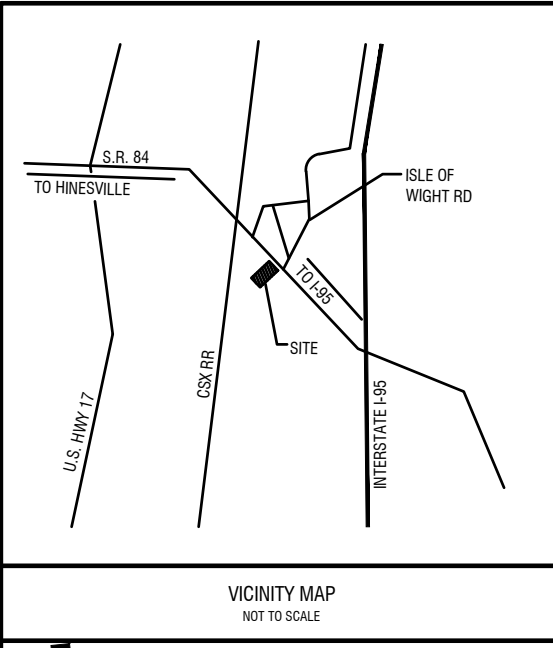
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GATEWAY PLAZA

UTILITY PROFILES

C401

FILE NO: 2021-64
 PLOT DATE: June 28, 2022



STORM OUTLET PROTECTION									
STRUCTURE NO.	D _o	L _a	W ₁	W ₂	d ₅₀	D	FLOW RATE (CFS)	VELOCITY (FPS)	
ST #1	10"	12'	10"	22'	6"	13.5'	8.81	1.98	

PRIMARY PERMITTEE
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 EXPIRES: 06-14-23

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EXISTING CONDITIONS:
 THE SITE CONSISTS OF MULTIPLE SPECIES OF TREES INCLUDING BUT NOT LIMITED TO, PINE AND OAK TREES, WITH LIGHT GROUND VEGETATION SPANNING ACROSS THE SITE AND A WOODED PORTION LOCATED ALONG THE FRONT OF THE PROPERTY. DRAINAGE IS ACHIEVED VIA SHEET FLOW TO AN EXISTING WETLAND.

SITE INFORMATION
 TOTAL PROJECT AREA = 3.95 AC
 TOTAL DISTURBED AREA = 3.95 AC

SOIL LEGEND

- Me MASCOTTE FINE SAND
- Pr POOLER-BLADEN COMPLEX
- Oc OCILLA LOAMY FINE SAND

SILT STORAGE CALCULATION:
 ESTIMATED EROSION = 3.95 AC X 67 C.Y. = 264.65 C.Y. STORAGE CAPACITY REQUIRED.
 AVAILABLE STORAGE IN POND = 2,075 C.Y.
R1 POND #1 CALCULATION
 REQUIRED SEDIMENT STORAGE = 264.65 C.Y.
 AVAILABLE STORAGE = 2,075 C.Y.
 IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? YES
 CLEAN OUT ELEVATION AT POND = 9.50 FT
 (ELEVATION CORRESPONDING TO 354 C.Y./AC * 3.95 AC DISTURBED)
 IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? NO

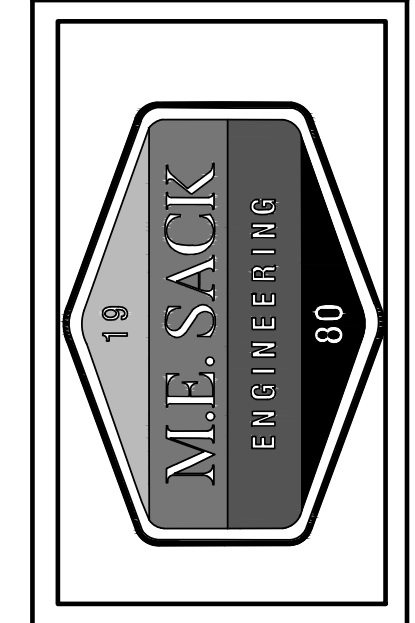
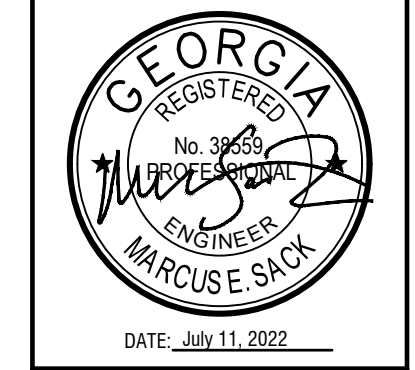
EROSION CONTROL MEASURES:
INITIAL PHASE: CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, AND DUST CONTROL. BEGIN CLEARING, GRUBBING, AND GRADING. BEGIN EXCAVATING DETENTION POND AND INSTALLING RETROFITS.
INTERMEDIATE PHASE: BEGIN FINE GRADING AND INSTALLATION OF DRAINAGE STRUCTURES. MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE: INSTALLATION OF CURBING AND PAVING, UTILITIES, AND FINAL GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, SILT FENCE, CONSTRUCTION EXITS.
 TOTAL DISTURBED ACRES = 3.95 AC
 TOTAL ACERAGE OF PROJECT SITE = 3.95 AC

REVISIONS:

1.	
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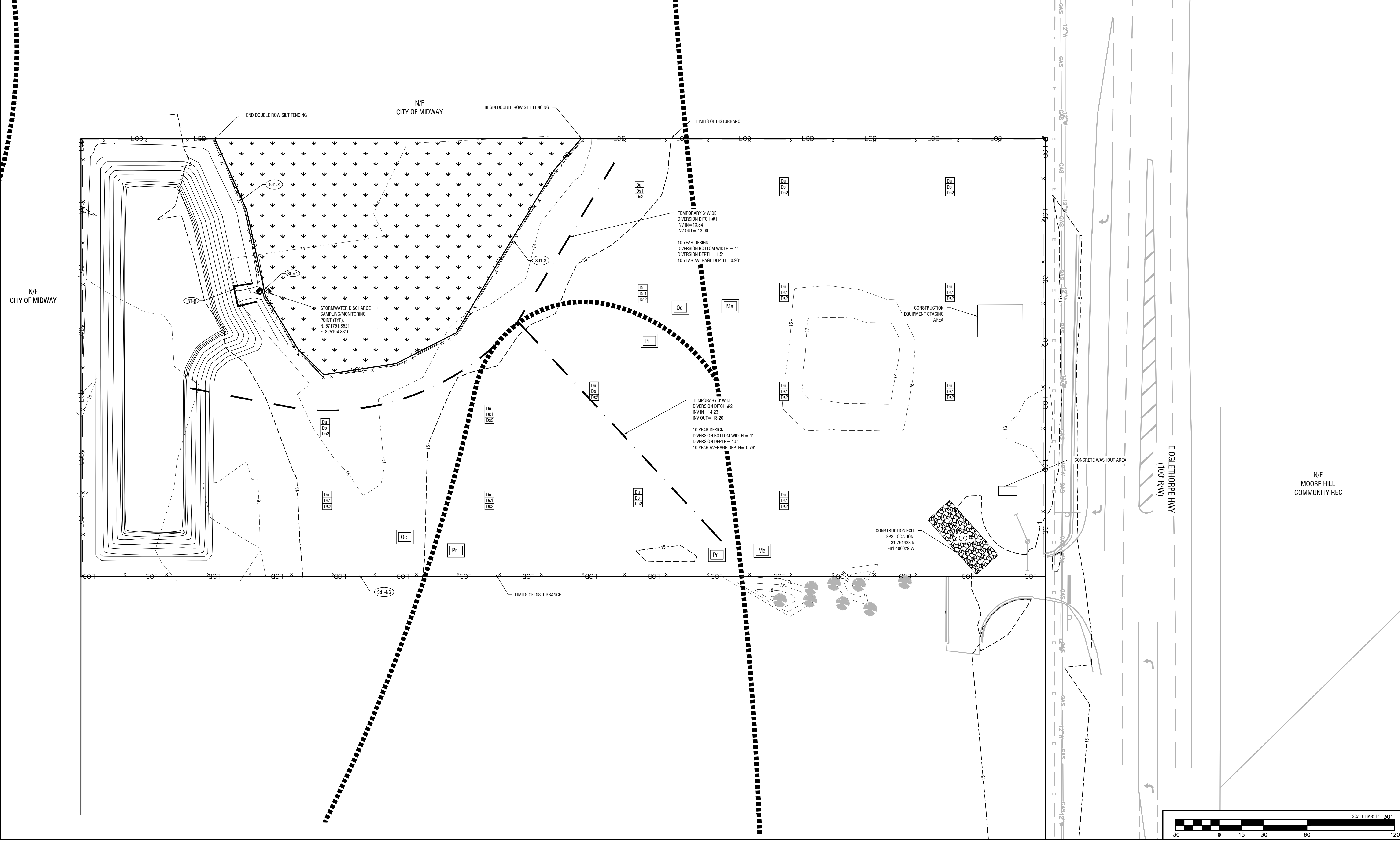
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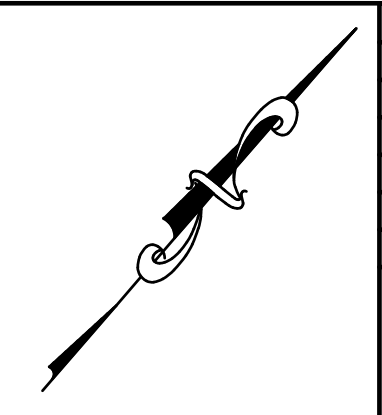
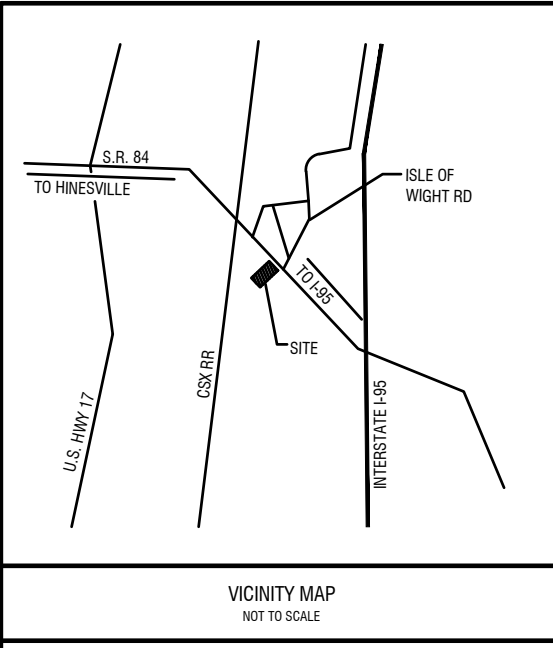
GATEWAY PLAZA

INITIAL EROSION PLAN

C500

FILE NO: 2021-64
 PLOT DATE: June 28, 2022



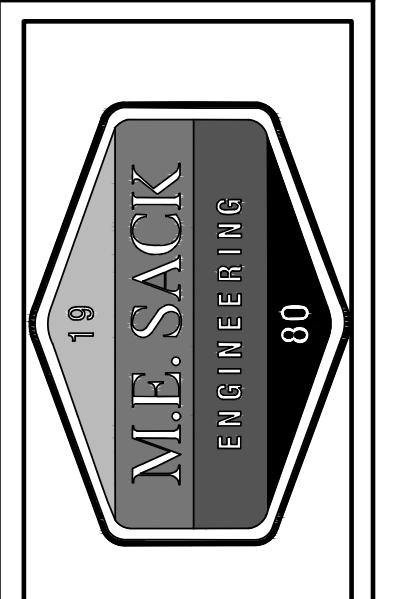
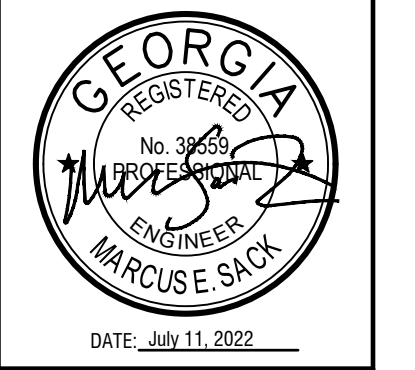


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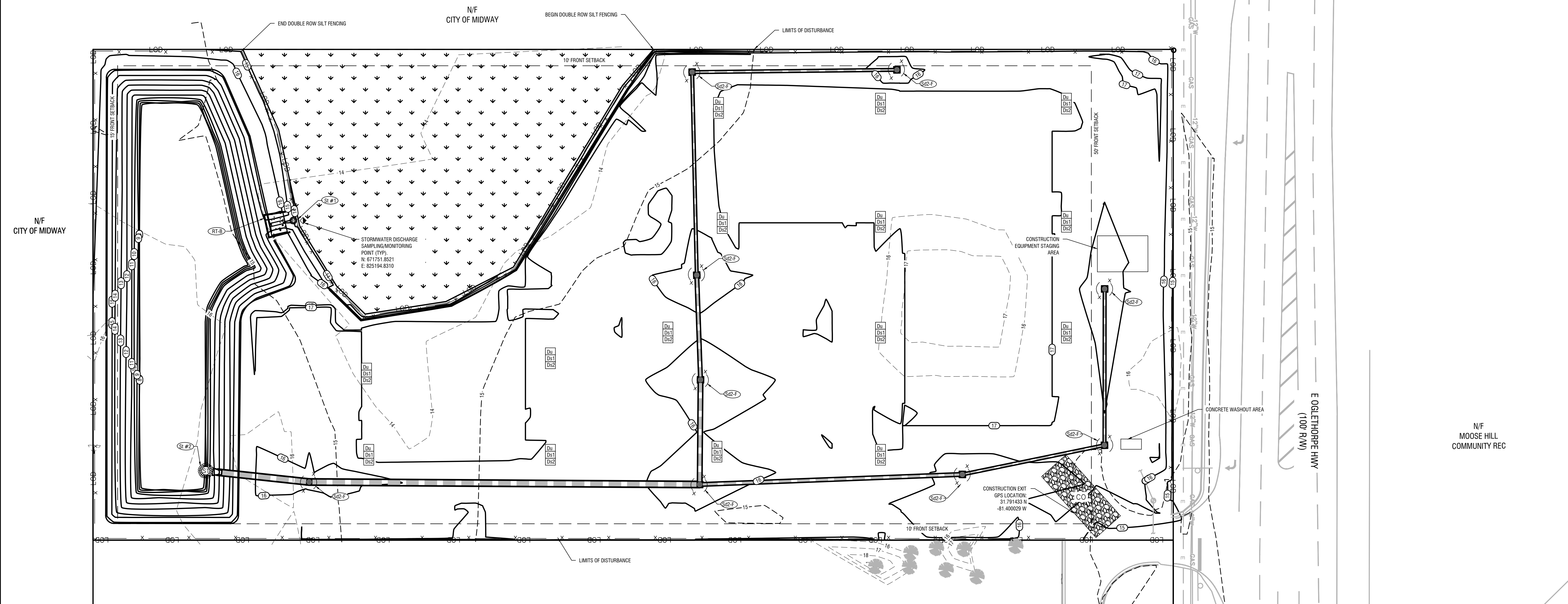
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GATEWAY PLAZA

INTERMEDIATE EROSION PLAN

C501

FILE NO: 2021-64
 PLOT DATE: June 28, 2022



STORM OUTLET PROTECTION

STRUCTURE NO.	Do - OUTLET PIPE DIA.	La - LENGTH OF APRON	W1 - WIDTH AT END OF PIPE	W2 - DOWNSTREAM WIDTH	Ø50 - AVE. STONE SIZE	ØMAX - MAX. STONE SIZE	D - STONE DEPTH	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	10"	12'	10'	22'	6"	13.5"	8.81'	1.88	
ST #2	30"	15'	4.5'	19.5'	6"	13.5"	27.50'	5.43	

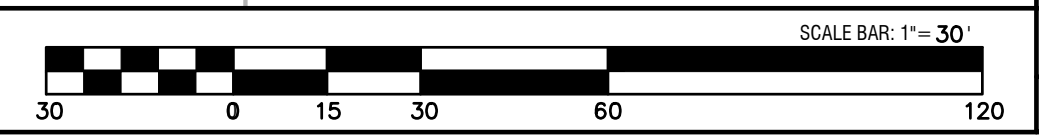
EROSION CONTROL MEASURES:
INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER B MPS, AND DUST CONTROL. BEGIN CLEARING, GRUBBING, AND GRADING. BEGIN EXCAVATING DETENTION POND AND INSTALLING RETROFITS.
INTERMEDIATE PHASE - BEGIN FINE GRADING AND INSTALLATION OF DRAINAGE STRUCTURES. MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE - INSTALLATION OF CURBING AND PAVING, UTILITIES, AND FINAL GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: RETROFITS, SILT FENCE, CONSTRUCTION EXITS.
 TOTAL DISTURBED ACRES = 3.95 AC
 TOTAL ACERAGE OF PROJECT SITE = 3.95 AC

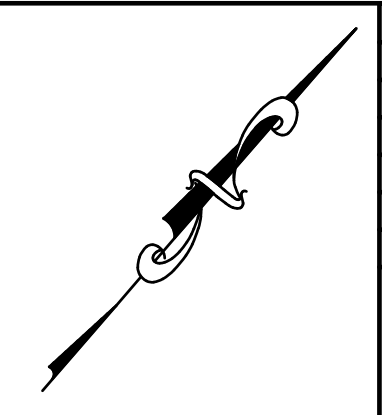
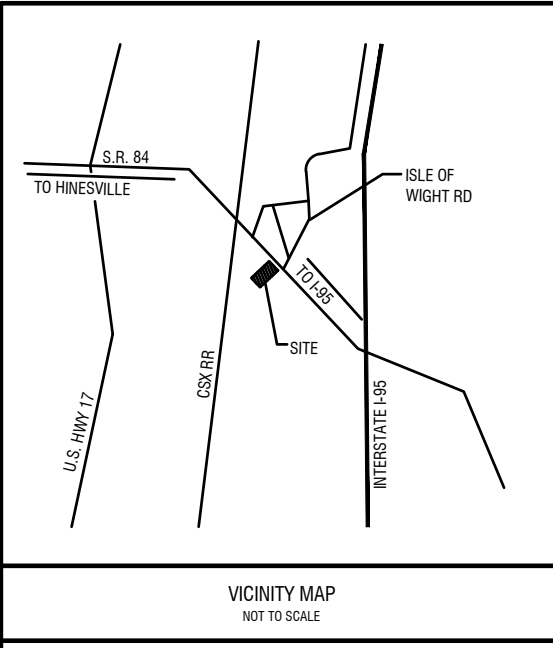
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 EXPIRES: 06-14-23

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SILT STORAGE CALCULATION:
 ESTIMATED EROSION = 3.95 AC X 67 C.Y. = 264.65 C.Y. STORAGE CAPACITY REQUIRED.
 AVAILABLE STORAGE IN POND = 2,075 C.Y.
RI POND #1 CALCULATION
 REQUIRED SEDIMENT STORAGE = 264.65 C.Y.
 AVAILABLE STORAGE = 2,075 C.Y.
 IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? YES
 CLEAN OUT ELEVATION AT POND = 9.50 FT
 (ELEVATION CORRESPONDING TO 354 C.Y./AC * 3.95 AC DISTURBED)
 IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? NO



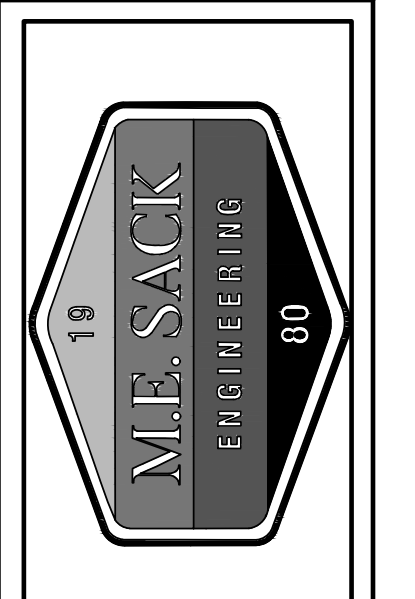
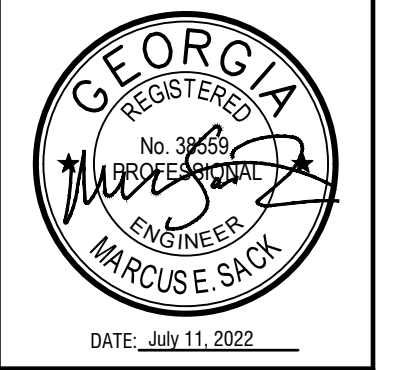


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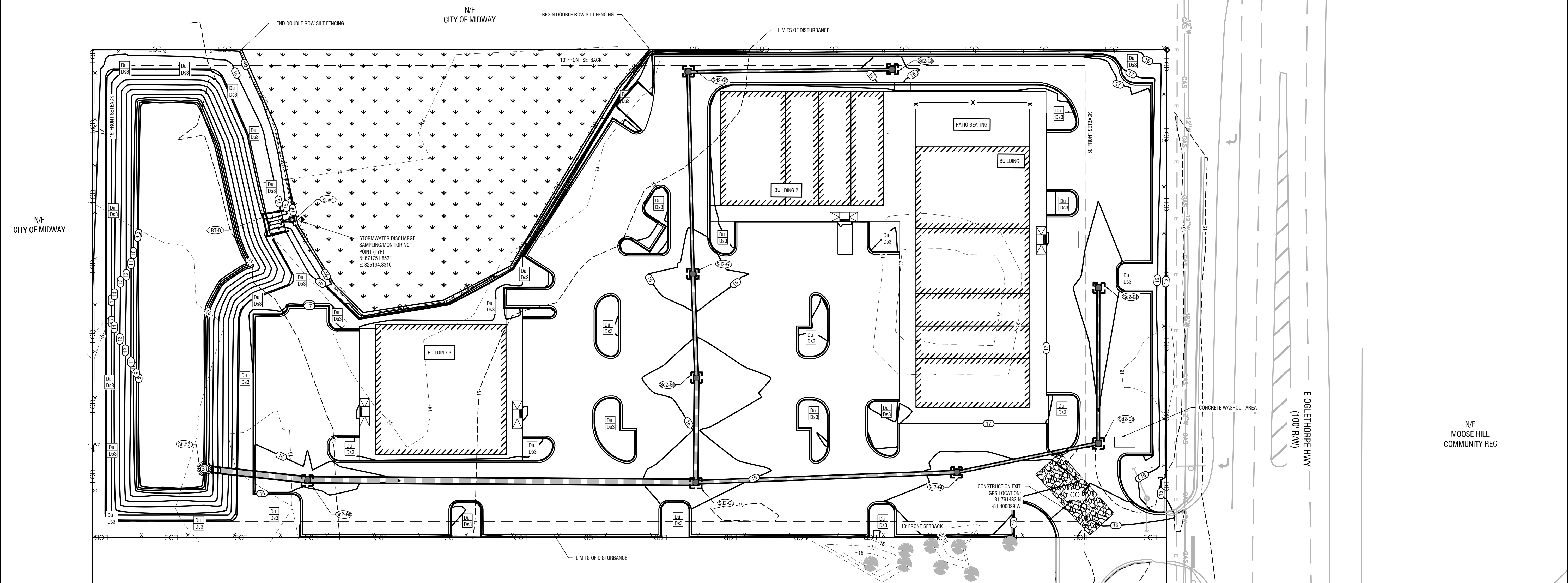
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GATEWAY PLAZA

FINAL EROSION PLAN

C502

FILE NO: 2021-64
 PLOT DATE: June 28, 2022



STORM OUTLET PROTECTION

STRUCTURE NO.	L _a - LENGTH OF APRON Do - OUTLET PIPE DIA.		W ₁ - WIDTH AT END OF PIPE W ₂ - DOWNSTREAM WIDTH		Ø50 - AVE. STONE SIZE ØMAX - MAX. STONE SIZE D - STONE DEPTH	FLOW RATE (CFS)	VELOCITY (FPS)
	Do	L _a	W ₁	W ₂			
ST #1	10"	12'	10'	22'	6"	13.5"	1.88
ST #2	36"	15'	4.5'	19.5'	6"	13.5"	5.43

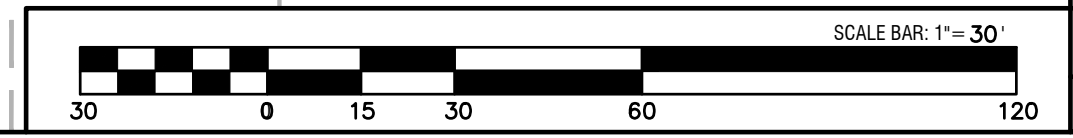
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 EXPIRES: 06-14-23

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SILT STORAGE CALCULATION
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 AVAILABLE STORAGE IN POND = 2,075 C.Y.
RIPOND #1 CALCULATION
 REQUIRED SEDIMENT STORAGE = 264.65 C.Y.
 AVAILABLE STORAGE = 2,075 C.Y.
 IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? YES
 CLEAN OUT ELEVATION AT POND = 9.50 FT
 (ELEVATION CORRESPONDING TO JSA C.Y./AC = 3.95 AC DISTURBED)
 IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? NO

EROSION CONTROL MEASURES:
INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, AND DUST CONTROL. BEGIN CLEARING, GRUBBING, AND GRADING. BEGIN EXCAVATING DETENTION POND AND INSTALLING RETROFITS.
INTERMEDIATE PHASE - BEGIN FINE GRADING AND INSTALLATION OF DRAINAGE STRUCTURES. MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
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 TOTAL DISTURBED ACRES= 3.95 AC
 TOTAL ACERAGE OF PROJECT SITE = 3.95 AC



NPDES PERMIT REQUIREMENTS GAR 10001

4. INSPECTIONS

A. PERMITTEE REQUIREMENTS.

(1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2) MEASURE AND RECORD RAINFALL WITH UNDISTURBED AREAS OF THE SITE THAT HAVE NOT FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(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 30 MIN OR ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, 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'S SITE 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). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.F.4.(a). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE REGION. EROSION AND SEDIMENTATION CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE REGION MUST BE MAINTAINED 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).

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6) A REPORT OF EACH INSPECTION THAT INDICATES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(5), OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATERS) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE PROJECT WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION, (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY "FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATERS) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATERS) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER) ENTERS THE RECEIVING WATERS) TO THE POINT WHERE THE RECEIVING WATERS) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.
(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QA/QC ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-82-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1) SAMPLE CONTAINERS SHOULD NOT BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(4) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. AUTOMATIC SAMPLERS MUST BE MAINTAINED AND TESTED IMMEDIATELY, BUT IN NO CASE LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SOLUTION SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(5) SAMPLING AND ANALYSIS OF THE RECEIVING WATERS) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART V.E.

C. SAMPLING POINTS.

- (1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATERS), OR ALL OUTFALLS), OR A COMBINATION OF RECEIVING WATERS) AND OUTFALLS). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATION OF THE WATER QUALITY OF THE RECEIVING WATERS) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
(A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATERS) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
(B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATERS) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATERS) OR THE STORM WATER OUTFALL CHANNEL(S).
(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS) OR IN THE OUTFALL STORM WATER CHANNEL.
(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(G) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS INTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCUTED AREAS OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 10% 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 PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (INCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE TO THE REGION).

(H) SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS II.D.3. OR II.D.4., WHICHEVER IS APPLICABLE.

D. SAMPLING FREQUENCY.

- (1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEES' CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
(A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
(B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN

OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED BY THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST:

(C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS' UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND AVOIDS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART II.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE MONITORED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATERS) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING RESULTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMISSION SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS 'EXCEEDS 1000 NTU'; AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

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 A OF THIS 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 A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

F. RETENTION OF RECORDS.

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT;
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.2.(2) OF THIS PERMIT;
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PART V. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY.

1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION, OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.
2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESS SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.
3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL, CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY PROVIDES INACCURATE OR ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL, CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR: A STATE OR LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL, SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL, SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED AS PUBLIC INFORMATION UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, INSPECTION REPORTS, SAMPLING REPORTS OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED AS FOLLOWS:

- 1. ALL NOTICES OF INTENT AND NOTICES OF TERMINATION SHALL BE SIGNED AS FOLLOWS:
a. FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY- OR DECISION-MAKING FUNCTIONS FOR THE CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND DIRECTING OTHER COMPENSATIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CANNOT BE A PERSON WHOSE SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS; AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES;
b. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY; OR
c. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL; AND
d. CHANGES TO AUTHORIZATION. IF AN AUTHORIZATION UNDER PART II.B. IS NO LONGER ACCURATE, A CHANGE OF INFORMATION NOT SATISFYING THE REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY INSPECTION

REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD TO BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON.

2. ALL INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A PERSON IS A DULY AUTHORIZED REPRESENTATIVE ONLY IF:

- a. THE AUTHORIZATION IS MADE IN WRITING BY A PERSON(S) DESCRIBED ABOVE AND SUBMITTED TO THE EPD;
b. THE AUTHORIZATION SPECIFIES EITHER AN INDIVIDUAL OR A POSITION HAVING RESPONSIBILITY FOR SPECIFIED OPERATION(S) OF THE REGULATED FACILITY OR ACTIVITY; OR THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS RESPONSIBILITY FOR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION); AND
c. CERTIFICATION. REPORTS DELINEATED IN PART V.G.2. SHALL BE SIGNED BY THE PERMITTEE OR DULY AUTHORIZED REPRESENTATIVE AND SHALL MAKE THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-540, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

I. PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT, NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

J. SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT SHALL NOT BE AFFECTED THEREBY.

K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT. NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS. FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEES' EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT.

NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

L. PROPER OPERATION AND MAINTENANCE. THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND RECORDS. THE PERMITTEE SHALL MAINTAIN AND OPERATE AND MAINTAIN ALL EQUIPMENT WHICH REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY A PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA, EPD OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR, IN THE CASE OF A CONSTRUCTION SITE WHICH DISCHARGES THROUGH A MUNICIPAL, SEPARATE STORM SEWER SYSTEM, AN AUTHORIZED REPRESENTATIVE OF THE SEPARATE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

- 1. ENTER UPON THE PERMITTEES' PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

N. PERMIT ACTIONS. THIS PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELS TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF FUELS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED IN THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.

FERTILIZERS/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE PLAN. THE DISCHARGE OF THESE PRODUCTS TO THE EROSION AND SEDIMENT CONTROL IN GEORGIA - ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

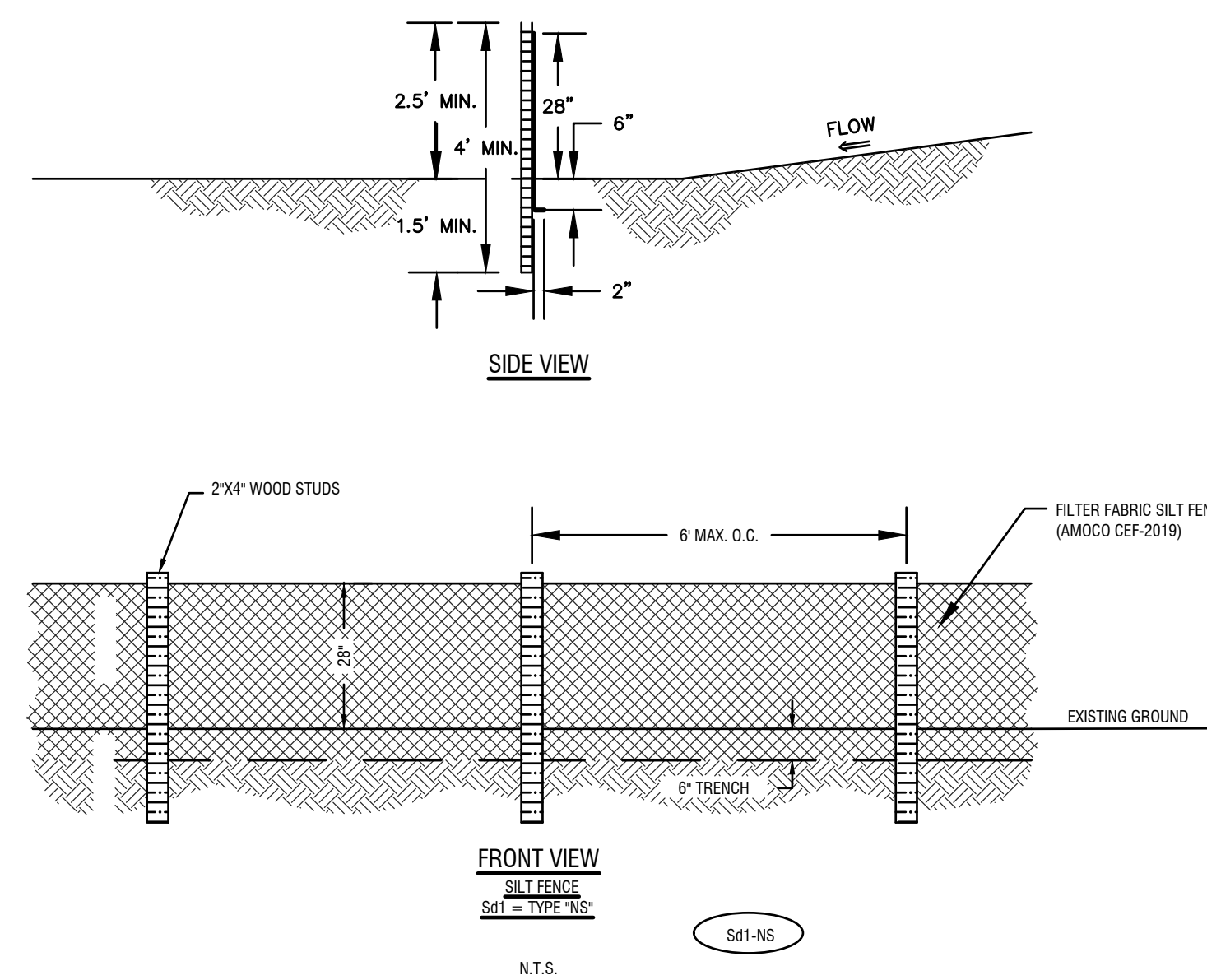
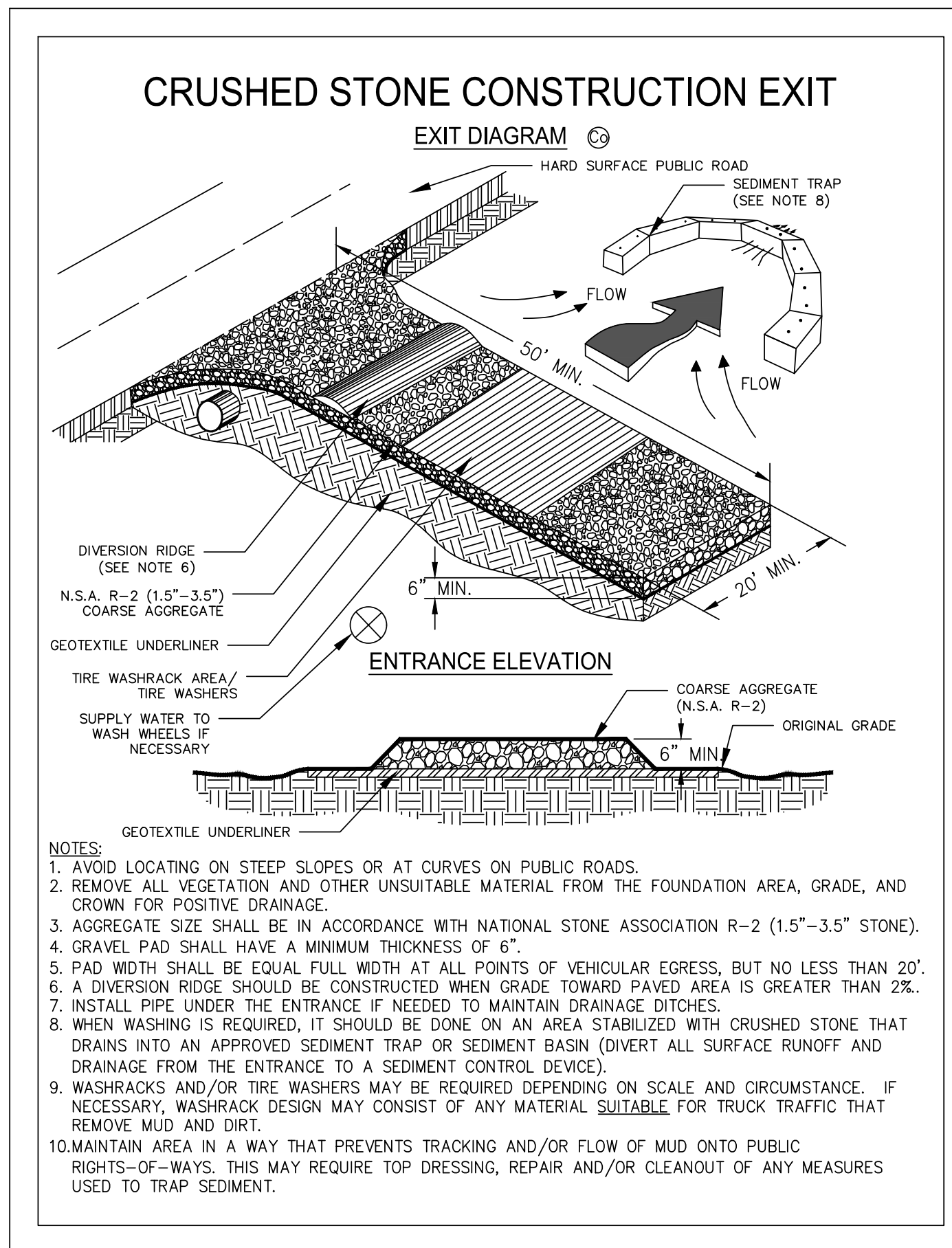
HAZARDOUS WASTES ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED. FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS, AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE EPCSP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (EPCSP) PLAN AND WILL TRAIN ALL PERSONNEL IN THE PROPER CARE AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH LOCAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE EPCSP PLAN.

SANITARY WASTES A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSE PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BASINS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING SHEET C-48. BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SPECIFIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETECTION AND MONITORING SYSTEMS AND OTHER MATERIALS, THE CONTRACTOR SHALL PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND STORMWATER WILL NOT RESULT IN A DISCHARGE OR WHERE EXPOSURE OF A SPECIFIC PRODUCT TO PRECIPITATION OR STORMWATER RESULTS IN A LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

SPILL CLEANUP AND CONTROL PRACTICES

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GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires slopes protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
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.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
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.
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, gravel, 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.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
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.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/draws water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMWATER OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Vt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

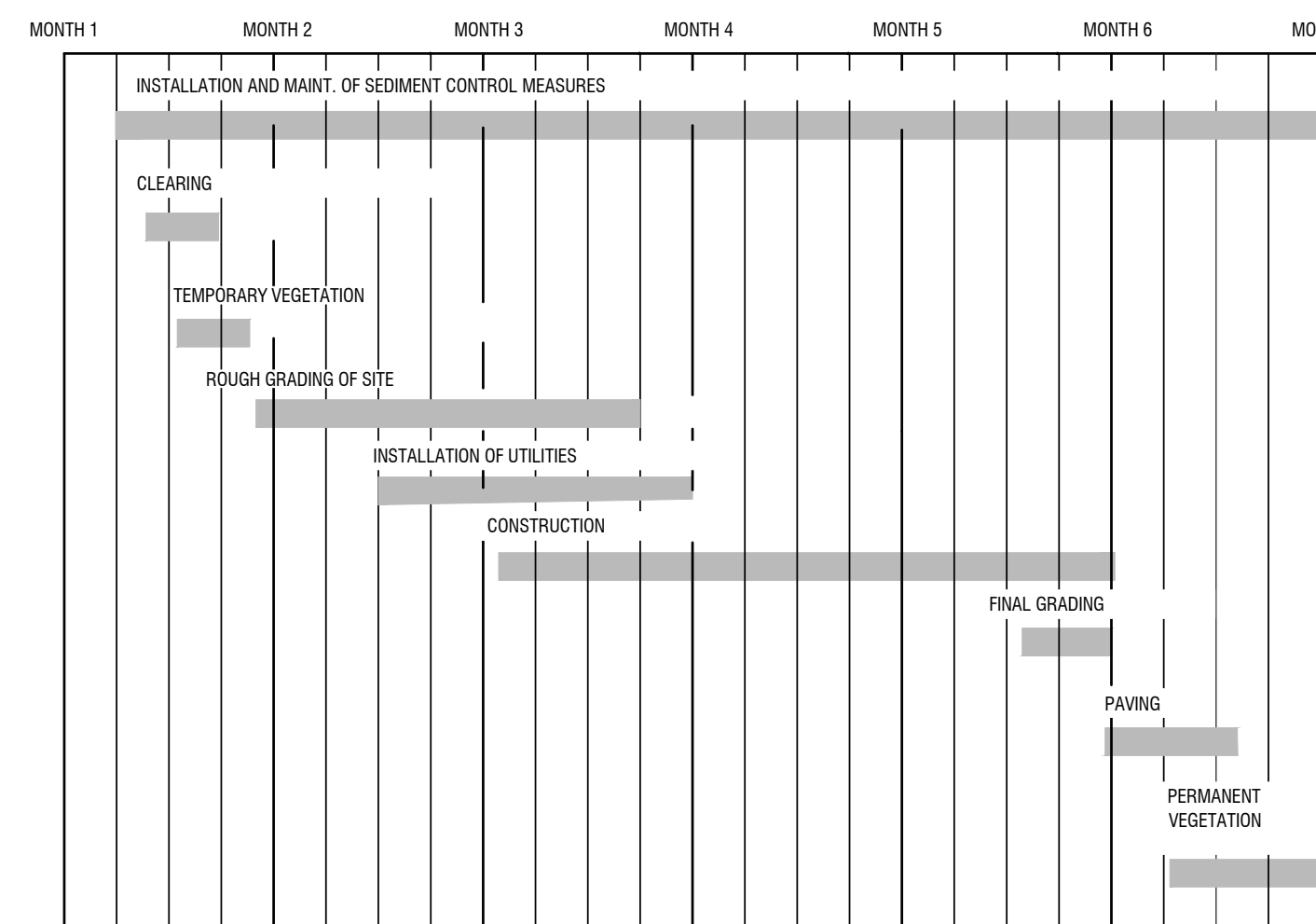
VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING 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.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SEEDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cc	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay much by causing the organic material to bind together.

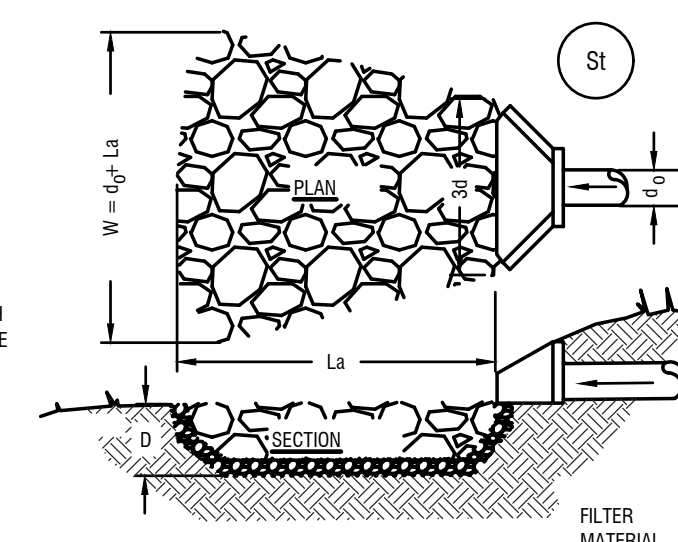
GSWCC (Amended - 2015)

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912-368-5212

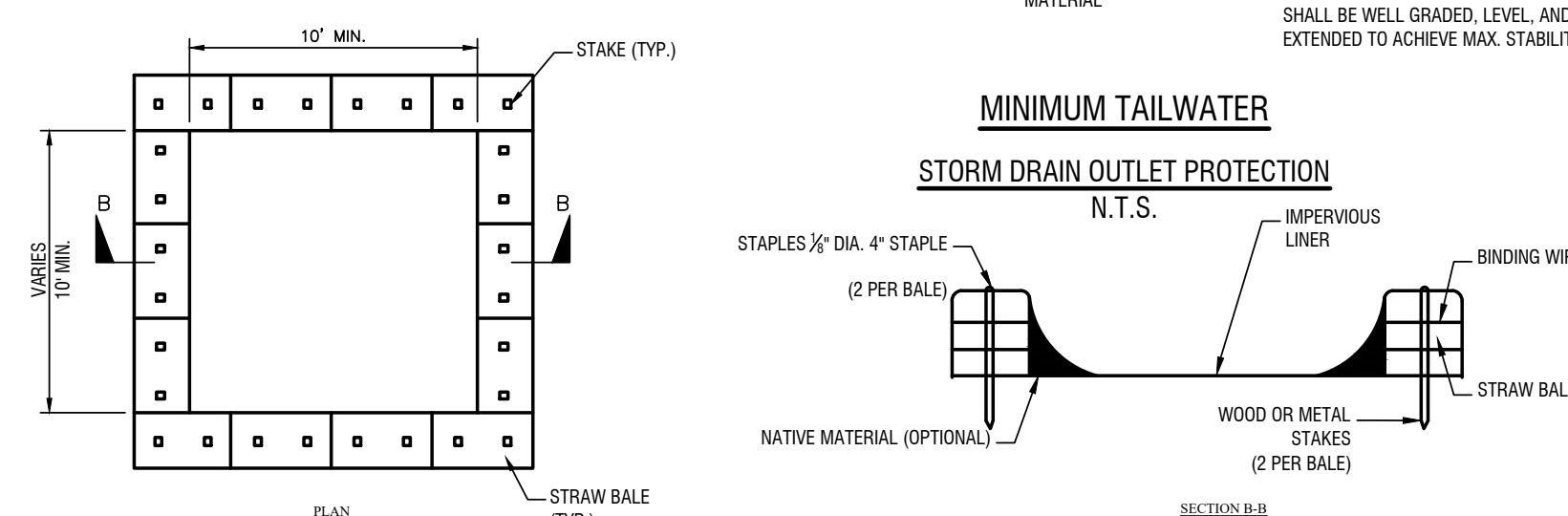
GATEWAY PLAZA TENTATIVE SCHEDULING FOR DUSTIN MCCAIN



*NO LDAS WILL COMMENCE UNTIL AFTER THE INSTALLATION OF PERIMETER CONTROL/SEDIMENT STORAGE BMP'S PER PERMIT IV.D2.b PG30.

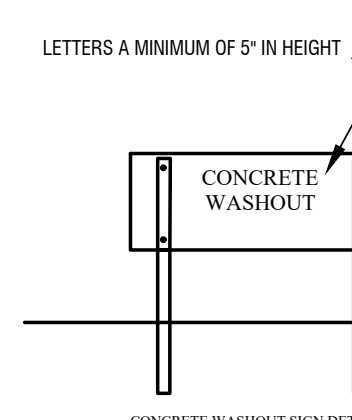


- NOTES:
- REFER TO STORM DRAIN OUTLET PROTECTION CHART FOR DIMENSIONING INFORMATION.
 - d_o = DIAMETER OF OUTLET PIPE
 - d_s = MIN. STONE DIAMETER
 - d_{max} MAX. STONE DIA. = (1.5 x d_o)
 - D = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6"
 - EXTEND THE RIPRAP APRON UP THE CHANNEL BANK TO THE TOP OF THE CHANNEL BANK.
 - A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION. FILTER BLANKET SHALL CONSIST OF A GRADED GRAVEL LAYER OR SYNTHETIC FILTER CLOTH. FILTER BLANKET IS INTENDED TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN RIPRAP.
 - RIPPRAP APRON AND FILTER MATERIAL SHALL BE WELL GRADED, LEVEL, AND EXTENDED TO ACHIEVE MAX. STABILITY.



NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
- CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
- THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
- SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
- A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.



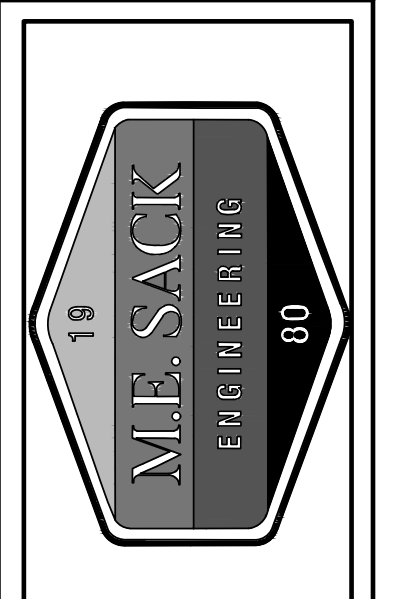
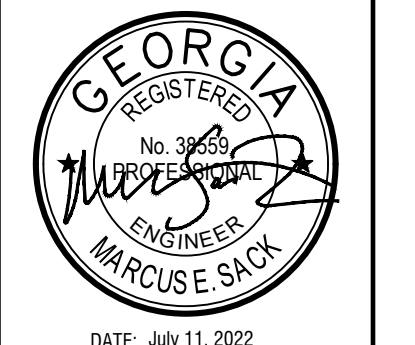
CONCRETE WASHOUT
N.T.S.

REVISIONS:

1.	

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GATEWAY
PLAZA

DETAILS

C600

FILE NO: 2021-64
PLOT DATE: June 28, 2022



Du DUST CONTROL ON DISTURBED AREAS

PURPOSE

- A. To prevent surface and air movement of dust from exposed surfaces.
- B. To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

Temporary Methods

1. Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet.
2. Mulching - See Ds1 - Disturbed Area Stabilization (with Mulching only)
3. Vegetative Cover - See Ds2 - Disturbed Area Stabilization (with Temporary Seeding)

Permanent Methods

1. Permanent Vegetation - See Ds3 - Disturbed Area Stabilization (with Permanent Vegetation)

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE 1000 S.F.		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS *												SPECIFICATIONS	
	PER ACRE	1000 S.F.		J	F	M	A	M	J	J	A	S	O	N	D		
BERMUDA, COMMON HULLLED SEED ALONE	10 LBS.	0.2 LB.	P														1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.	C														
BERMUDA, COMMON UNHULLLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS.	0.2 LB.	P														PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.	C														
BERMUDA SPRIGS COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, TIFT 44	40 CU. FT. 0.9 CU.FT. OR SOD PLUGS 3' X 3'		M-L														A CUBIC FT. CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATELY 800 SPRIGS. SAME AS ABOVE.
TIFT 78			P														SOUTHERN COASTAL PLAIN ONLY
			C														

* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)

Ds1 DISTURBED AREA STABILIZATION (W/MULCHING ONLY)

SPECIFICATIONS

A. For temporary protection of critical areas without seeding. This standard applies to grades or cleared areas which may be subjected to erosion for 6 months or less, where seeding may not have a suitable growing season to produce an erosion retardant cover, but which can be stabilized with a mulch cover.

Site Preparation

1. Grade, as needed and feasible, 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. As needed and feasible, loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

1. Dry straw or hay - spread at a rate of 2 1/2 tons per acre.
2. Wood waste, chips, sawdust or bark - spread 2 to 3 inches deep (about 6 to 9 tons per acre).
3. Erosion control matting or netting, such as excelsior, jute, textile and plastic matting and netting - applied in accordance with manufacturer's recommendations.
4. Cutback asphalt, slow curing - applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.)
5. Polyethylene film - secured over banks or stockpiled soil material for temporary protection.

Applying and Anchoring Mulch

1. Apply straw or hay mulch uniformly by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "pucker disk." The disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but press it into the soil leaving much of it in an erect position. Straw hay mulch spread with special blow-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion must be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of water per acre.
2. Spread wood waste uniformly on slopes that are 3:1 and flatter. No anchoring is needed.
3. Commercial matting and netting. Follow manufacturer's specification included with the material.
4. Apply asphalt so area has uniform appearance. (Note: Use in areas of pedestrian traffic could cause problems or "tracking in" or damage to shoes, clothing, etc.)

B. To conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bar areas on lawns.

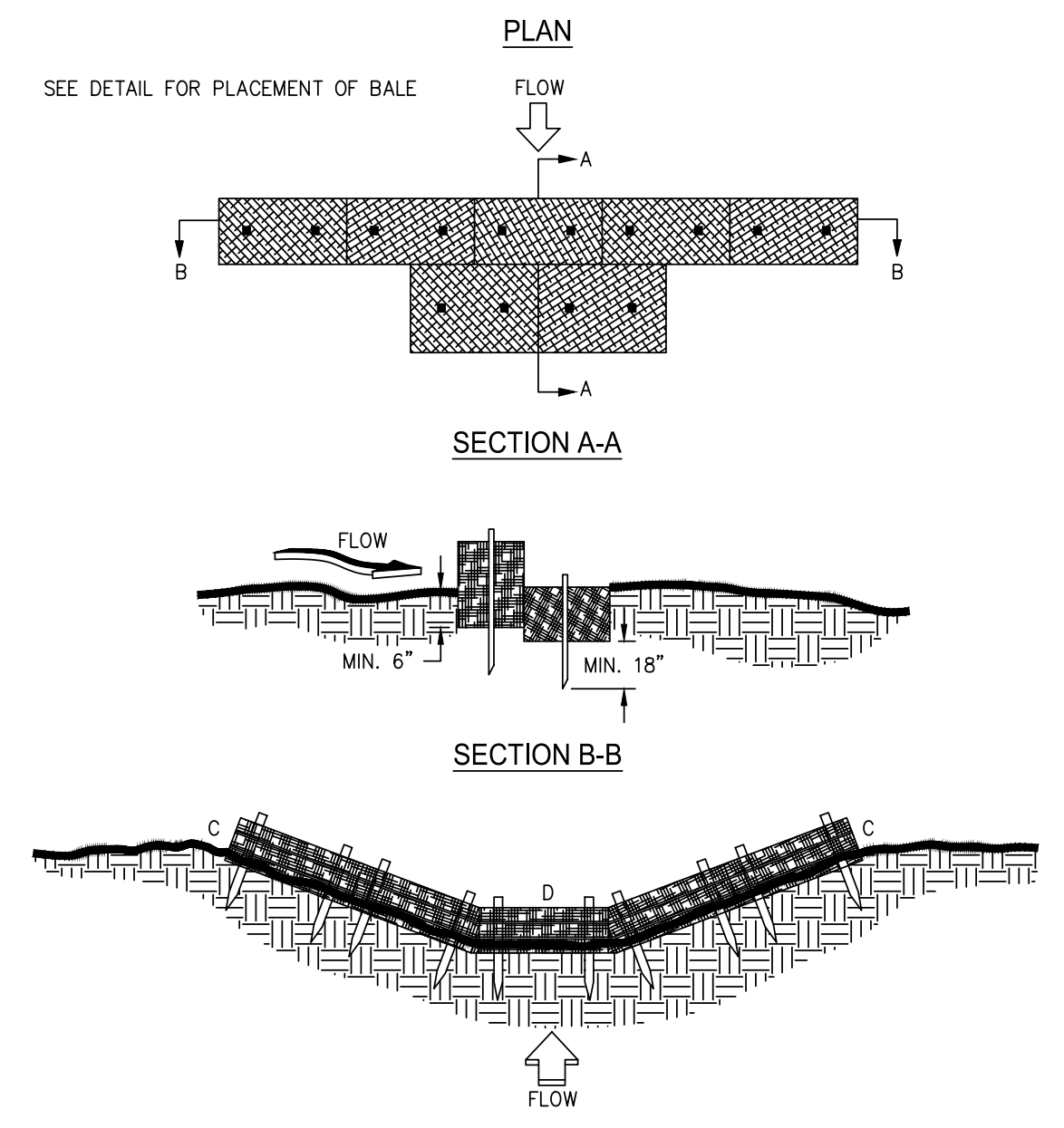
Mulching Materials

Use one of the materials given below and apply at thickness indicated.

Material	Depth
1. Grain straw or grass hay	6" to 10"
2. Pine needle	4" to 6"
3. Wood waste (sawdust, bark, chips)	4" to 8"
4. Shredded residues (crops, leaves, etc.)	4" to 8"

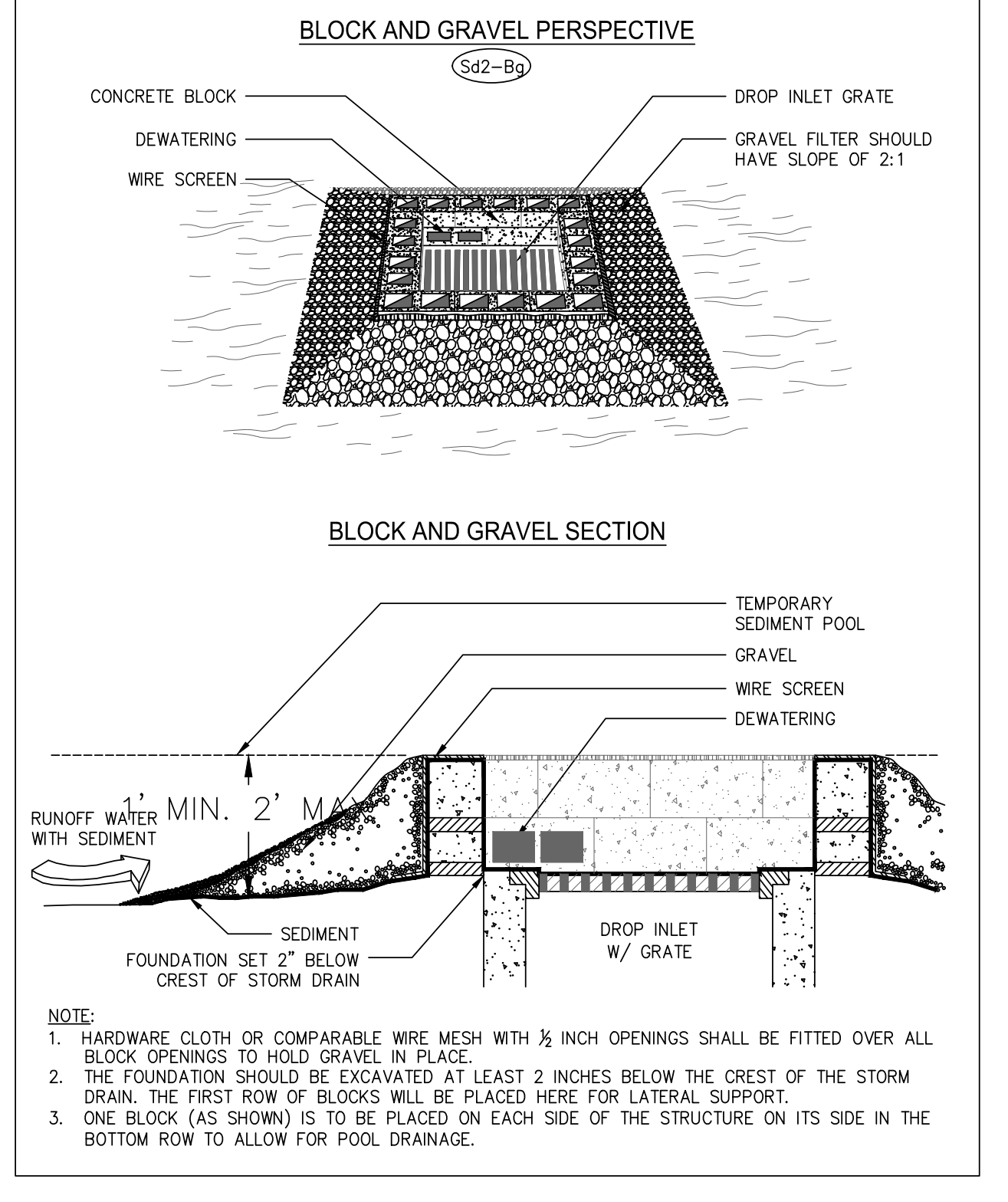
5. Completely cover area with black polyethylene film and hold in place by placing soil on the outer edge. When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by decomposition of mulch

TYPICAL STRAW BALE CHECK DAM



- NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS SLIGHTLY ABUTTING THE ADJACENT BALES.
 2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

BLOCK AND GRAVEL DROP INLET PROTECTION



- NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
 2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
 3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE 1000 S.F.		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS *												REMARKS	
	PER ACRE	1000 S.F.		J	F	M	A	M	J	J	A	S	O	N	D		
RYEGRASS, ANNUAL ALONE	40 lbs.	0.9 lb.	M-L P C														227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.

* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)

MULCHING RATES FOR PERMANENT COVER

TYPE OF MULCH	RATE PER ACRE	NOTES
Dry straw	2 Tons	Free of weed seeds.
Dry hay	2.5 Tons	Free of weed seeds.
Wood Cellulose	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Wood Pulp Fiber	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Sericea Lespedeza Hay	3 Tons	Containing mature seeds.
Pine Straw or Bark	3 inches thick	For bedding. Not for seeding.
Bituminous treated raving	See DOT specs.	Use on slopes. in ditches, or dry waterways.

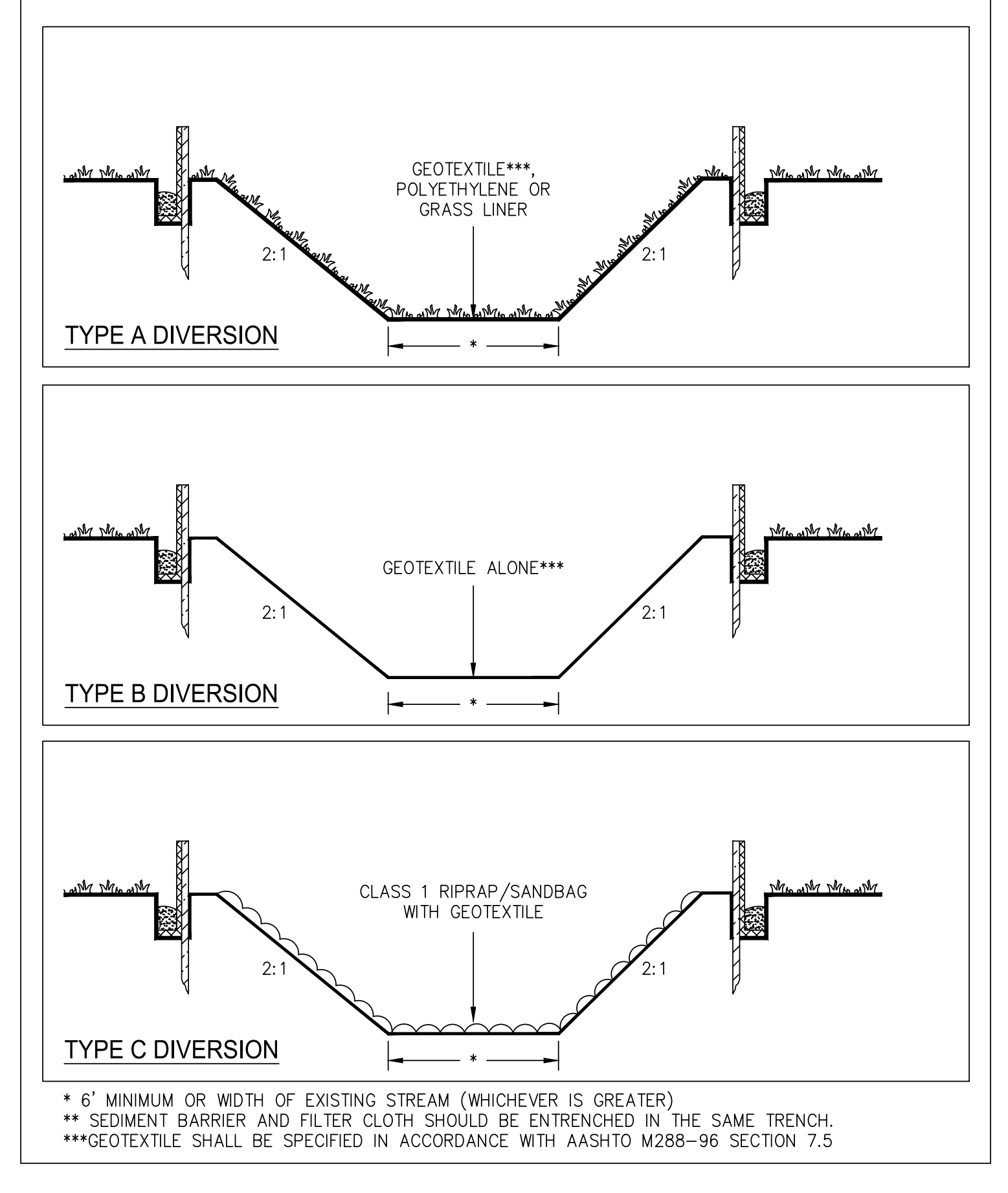
1. Mulching is not required for temporary grassing.
2. Mulch shall be applied to cover 75% of the soil surface.
3. Sod does not require mulch.

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE	LIME APPLICATION
Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/ 2/	2000 lbs./ac.
	Second	8-12-12	1000 lbs./ac.	30	
Cool season grasses legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/	2000 lbs./ac.
	Second	0-10-10	1000 lbs./ac.	-	
Ground covers	First	10-10-10	1500 lbs./ac.	-	-
	Second	10-10-10	1000 lbs./ac.	-	
Pine seedlings	First	20-10-5	-	one 21-gram pallet per seedling placed in the closing hole	-
	Second	0-10-10	700 lbs./ac.	700 lbs./ac. 4/	-
Shrub lespedeza	First	0-10-10	700 lbs./ac.	-	-
	Second	0-10-10	700 lbs./ac.	4/	
Temporary cover crops seeded clone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/	-
Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/ 6/	2000 lbs./ac.
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/	
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac	
Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 6/	2000 lbs./ac.
	Second	0-10-10	1000 lbs./ac.	-	
	Maintenance	0-10-10	400 lbs./ac.	-	

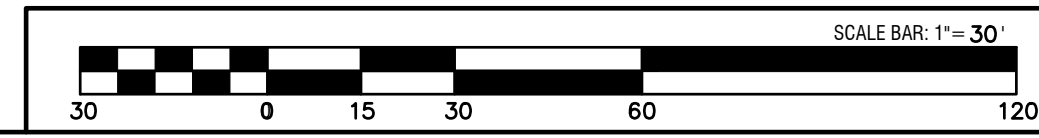
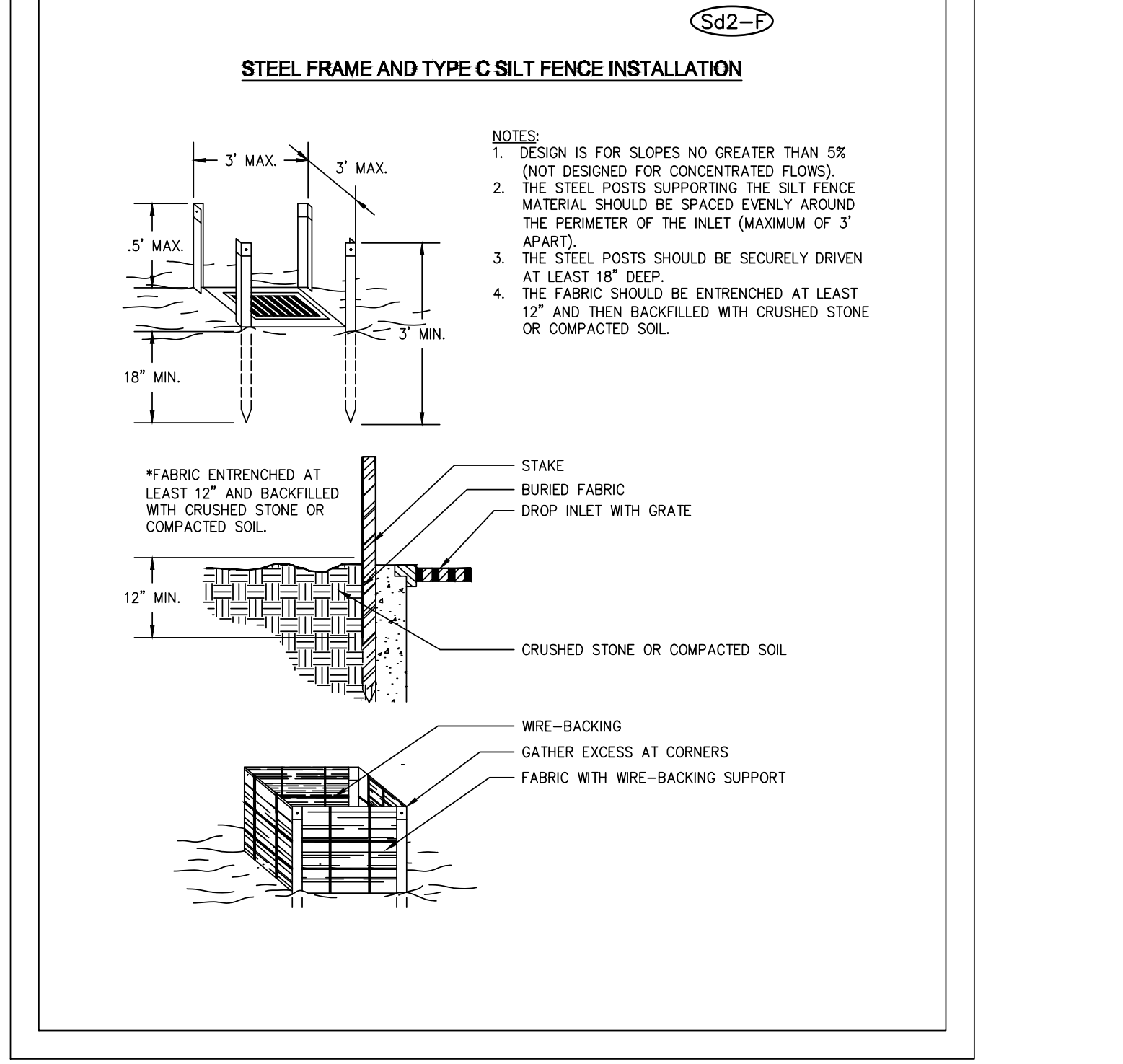
- 1/ Apply in spring following seeding.
- 2/ Apply in split applications when high rates are used.
- 3/ Apply in 3 split applications.
- 4/ Apply when plants are pruned.
- 5/ Apply to grass species only.
- 6/ Apply when plants grow to height of 2 to 4 inches.

TO BE SHOWN ON EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN



- * 6' MINIMUM OR WIDTH OF EXISTING STREAM (WHICHEVER IS GREATER)
 ** SEDIMENT BARRIER AND FILTER CLOTH SHOULD BE ENTRENCHED IN THE SAME TRENCH.
 ***GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-96 SECTION 7.5

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

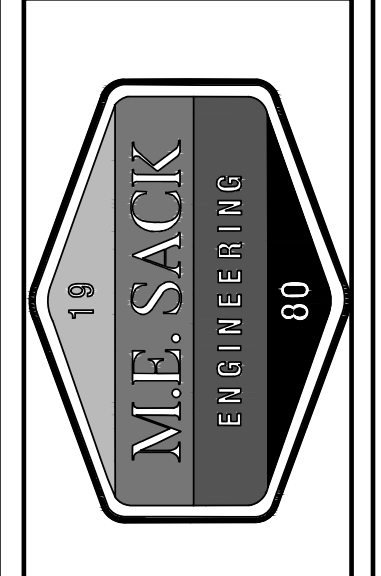


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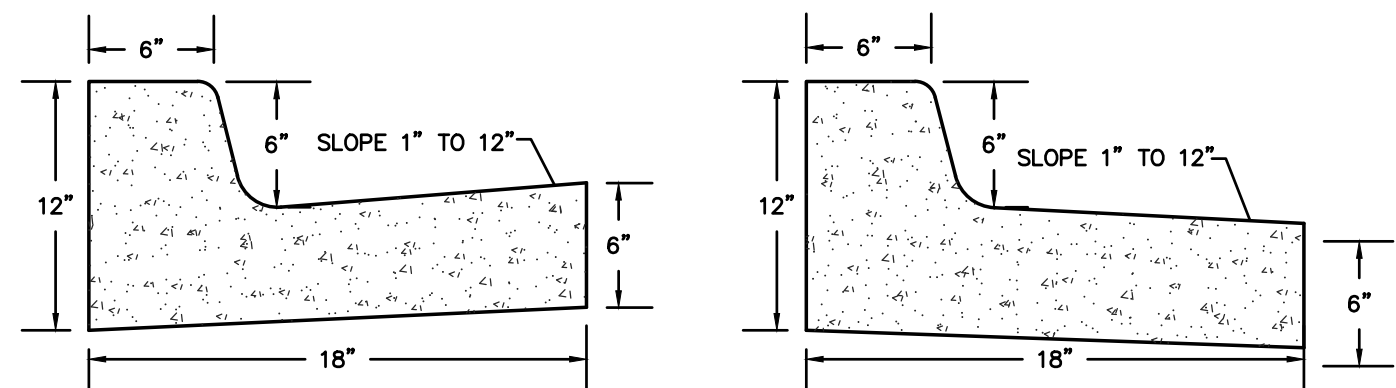
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GATEWAY PLAZA

DETAILS

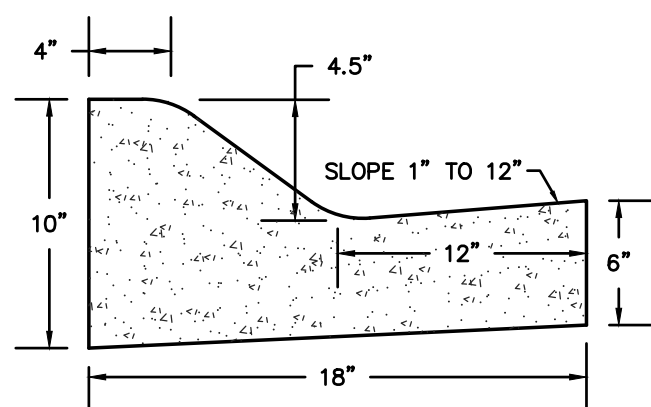
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FILE NO: 2021-64
 PLOT DATE: June 28, 2022

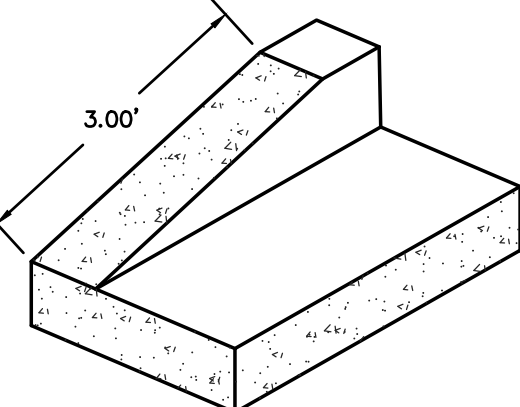


STANDARD TYPE CURB & GUTTER
N.T.S.

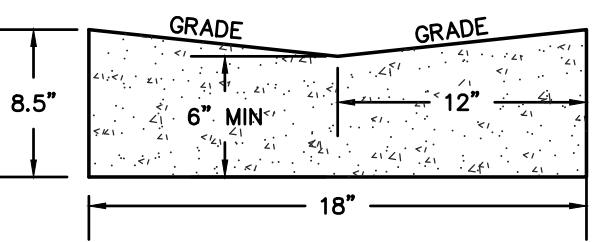
SPILL-OUT TYPE CURB & GUTTER
N.T.S.



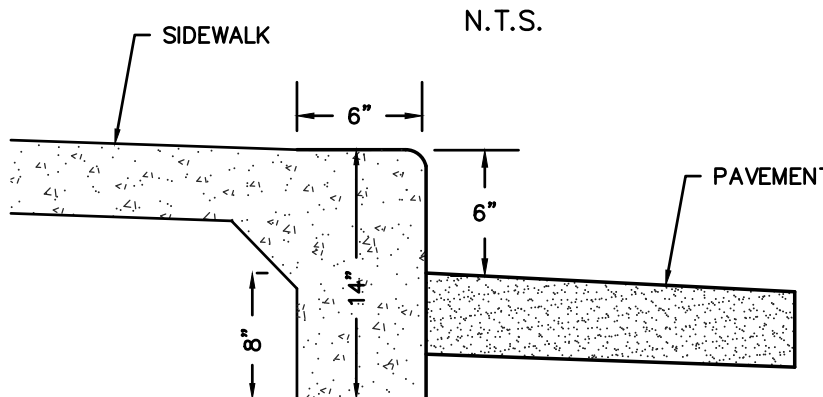
ROLLED TYPE CURB & GUTTER
N.T.S.



CURB TERMINATION DETAIL
N.T.S.



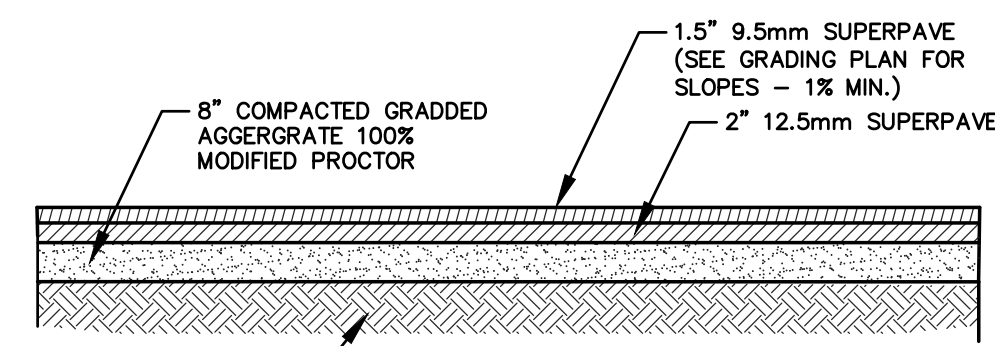
VALLEY TYPE CURB & GUTTER
N.T.S.



TURNDOWN CURB
N.T.S.

- NOTE:
1. VALLEYGUTTER SHALL 4,000 PSI CONCRETE WITH FIBER MESH.
2. SIDE SLOPES SHALL BE GRADED TO MATCH THOSE ON THE GRADING PLAN.
3. ONLY USED IF ASPHALT PAVING IS CHOSEN

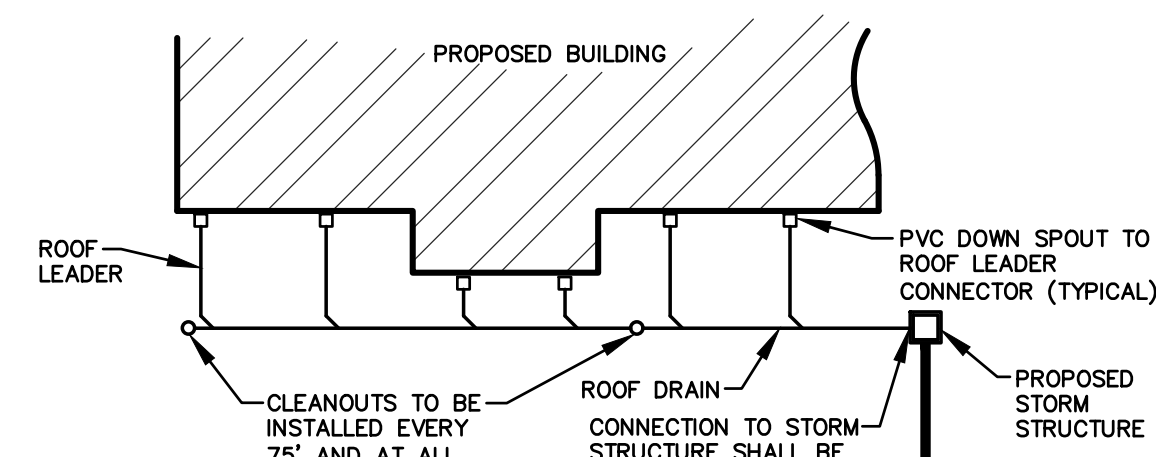
CURB & GUTTER DETAIL
N.T.S.



HEAVY DUTY ASPHALT PAVEMENT DETAIL
N.T.S.

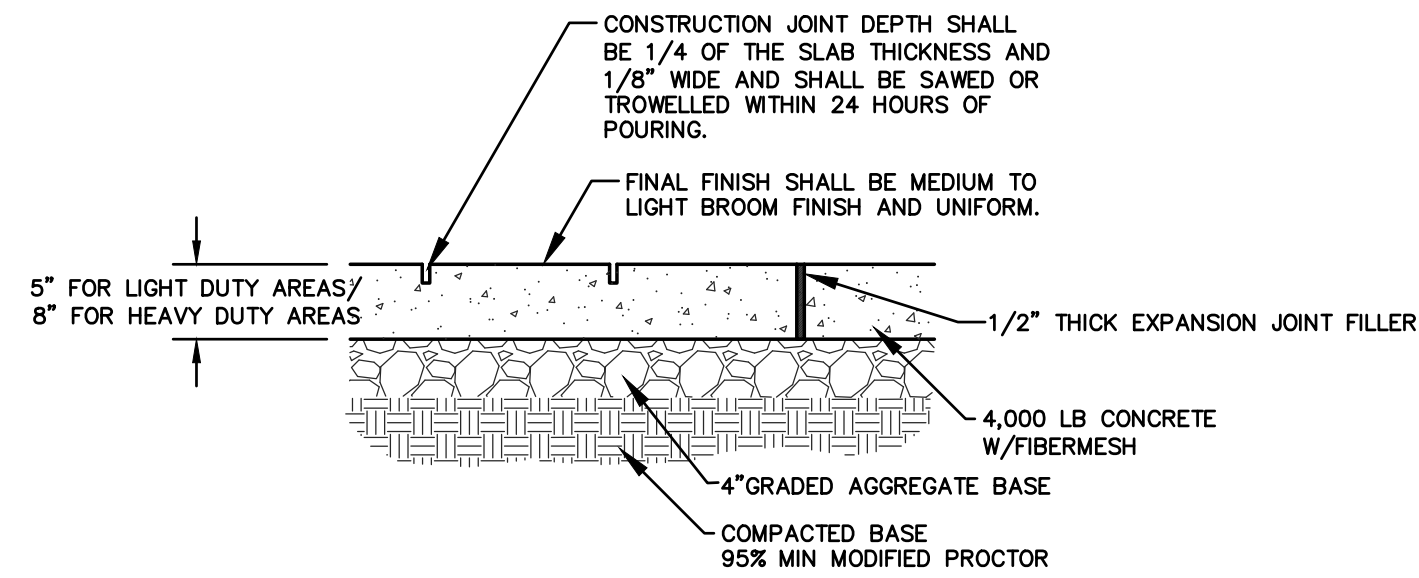
MAX. # DOWN SPOUTS	MAX. SURFACE AREA *	MIN. DRAIN SIZE
3	4,500 SF	6" DIA.
6	9,000 SF	8" DIA.
11	16,500 SF	10" DIA.
18	27,000 SF	12" DIA.

- NOTE:
1. SURFACE AREA SHALL BE CALCULATED AS HORIZONTAL PROJECTED AREA.
2. MAY BE PRICED FOR ASPHALT OR CONCRETE PAVING



ACCESSIBLE PARKING SIGN
N.T.S.

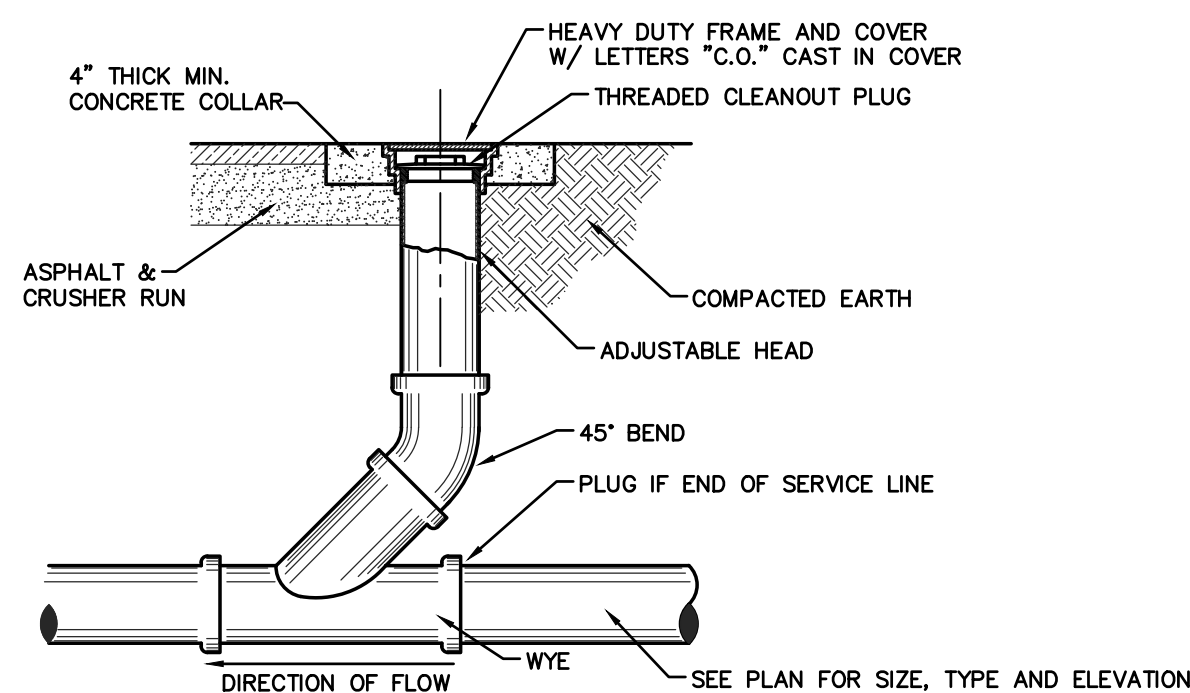
- NOTE:
1. CLEANOUTS TO BE INSTALLED EVERY 75' AND AT ALL CHANGES IN GRADE & DIRECTION.
2. CONNECTION TO STORM STRUCTURE SHALL BE IN CONFORMANCE WITH SPECIFICATION.
* NOTE: SEE GRADING PLAN FOR ROOF DRAIN LOCATIONS. SEE ARCHITECTURAL PLAN FOR DOWN SPOUT LOCATIONS. MINIMUM SLOPE FOR ALL PIPE SHALL BE 1.0%.



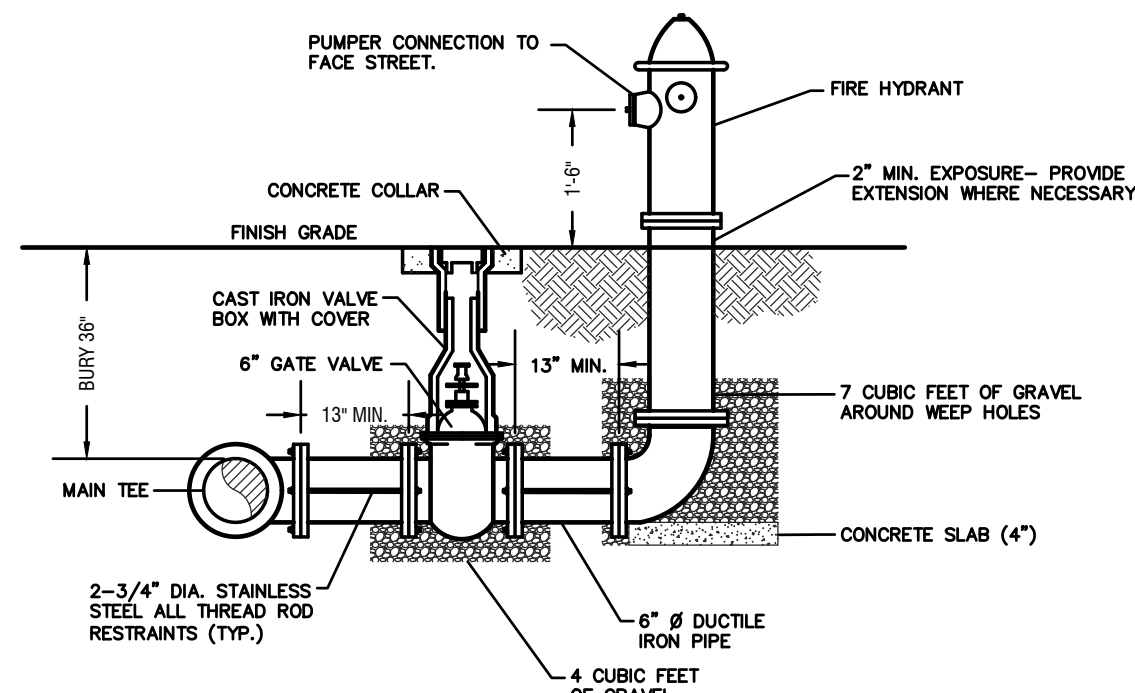
CONCRETE PAVING DETAIL
N.T.S.

NOTES:

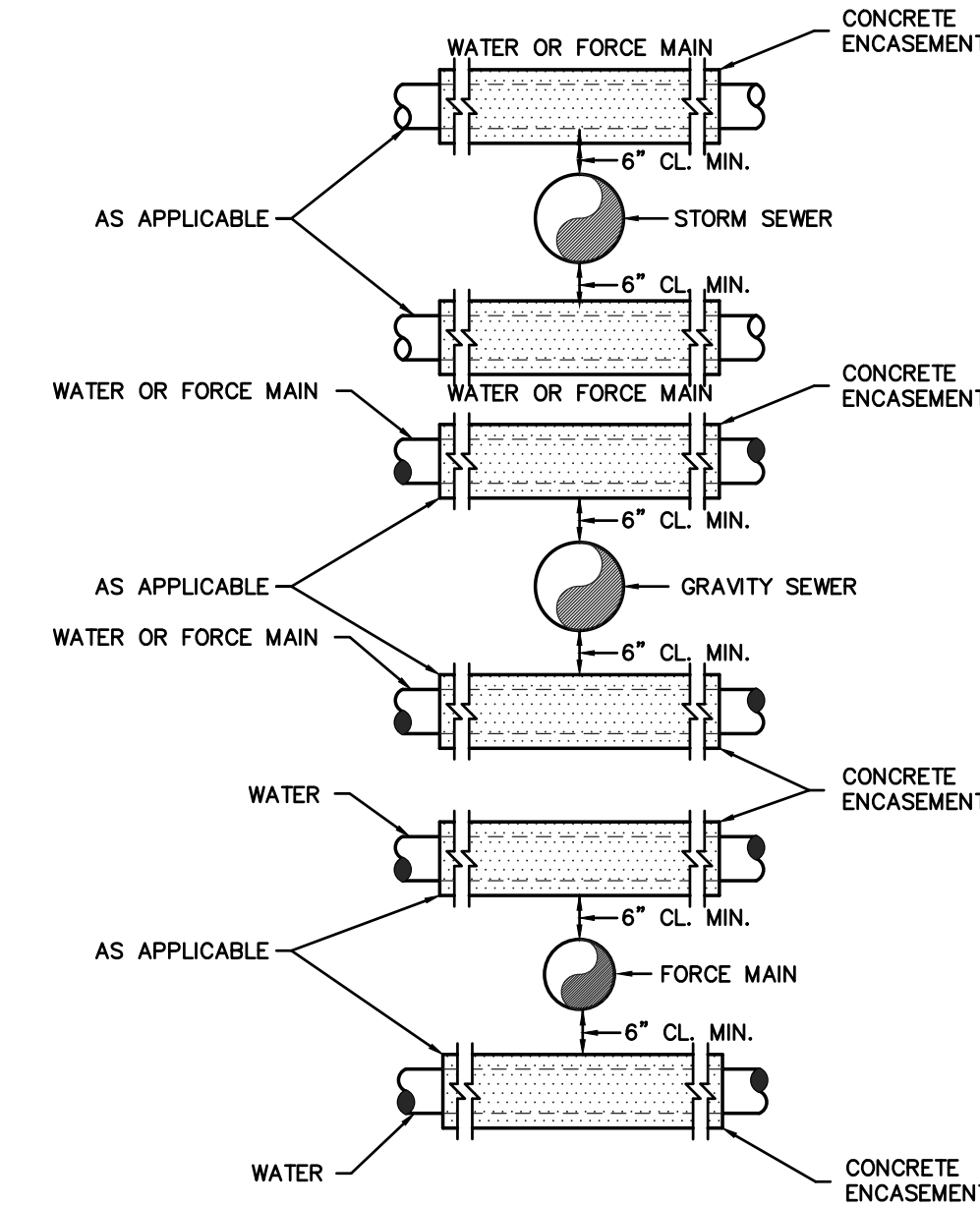
- CONSTRUCTION JOINTS: 12' O.C. MAX
- EXPANSION JOINTS: 20' O.C. MAX
- THE CONCRETE SHOULD BE AIR ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AFTER 28 DAYS OF LAB CURING PER ASTM C-31.
- GRADED AGGREGATE BASE SHOULD CONFORM TO THE GDOT MATERIAL SPECIFICATION SECTION 815.
- THE SELECT FILL SHOULD BE RELATIVELY CLEAN SANDS WITH PERCENT FINES LESS THAN 15%. THE FILL MATERIAL SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
- IF SP OR SP-SM OR SM SOILS EXIST AT THE PROPOSED SUBGRADE ELEVATION EXTENDING TO A DEPTH AT LEAST 24" BELOW THE PROPOSED SUBGRADE LEVEL, THE IN-SITU SOILS CAN REPLACE THE SELECT FILL AND THE SUBGRADE SHOULD BE IMPROVED USING DENSIFICATION AS DISCUSSED IN THE EARTHWORKS SECTION OF THE GEOTECHNICAL REPORT.
- CONCRETE JOINTS SHOULD BE SEALED PROPERLY TO AVOID INGRESS OF SURFACE WATER INTO THE SUBGRADE SOILS. PROPER SURFACE AND SUBGRADE DRAINAGE SYSTEM SHOULD BE INSTALLED TO MAINTAIN THE GROUNDWATER AT LEAST 2' BELOW THE TOP OF THE SUBGRADE.
- SOME SUBGRADE SOIL UNDERCUTTING AND BACKFILLING WITH SUITABLE STRUCTURAL FILL WILL BE REQUIRED IF UNSTABLE SUBGRADE SOILS ARE ENCOUNTERED DURING SUBGRADE PREPARATION.



CLEANOUT DETAIL
N.T.S.

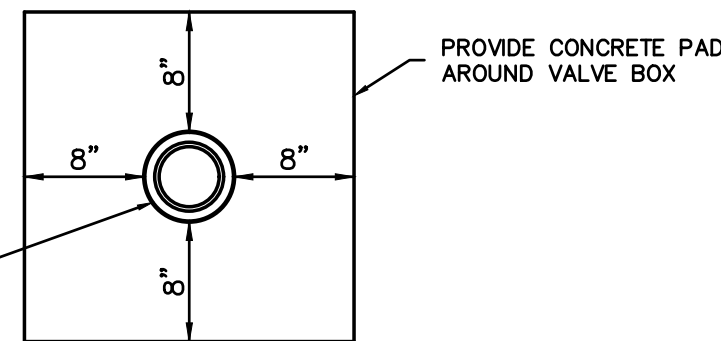


FIRE HYDRANT DETAIL
N.T.S.



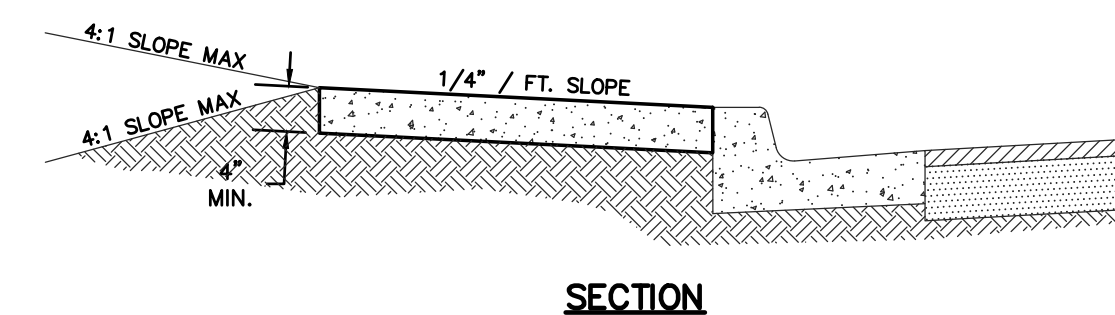
SEPERATION DETAIL
N.T.S.

- NOTE:
1. CONCRETE ENCASEMENT TO EXTEND A MINIMUM OF 10' ON BOTH SIDES OF CROSSING.
2. FOR ELEVATION OF PIPES, SEE PLANS.
3. CONCRETE ENCASEMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

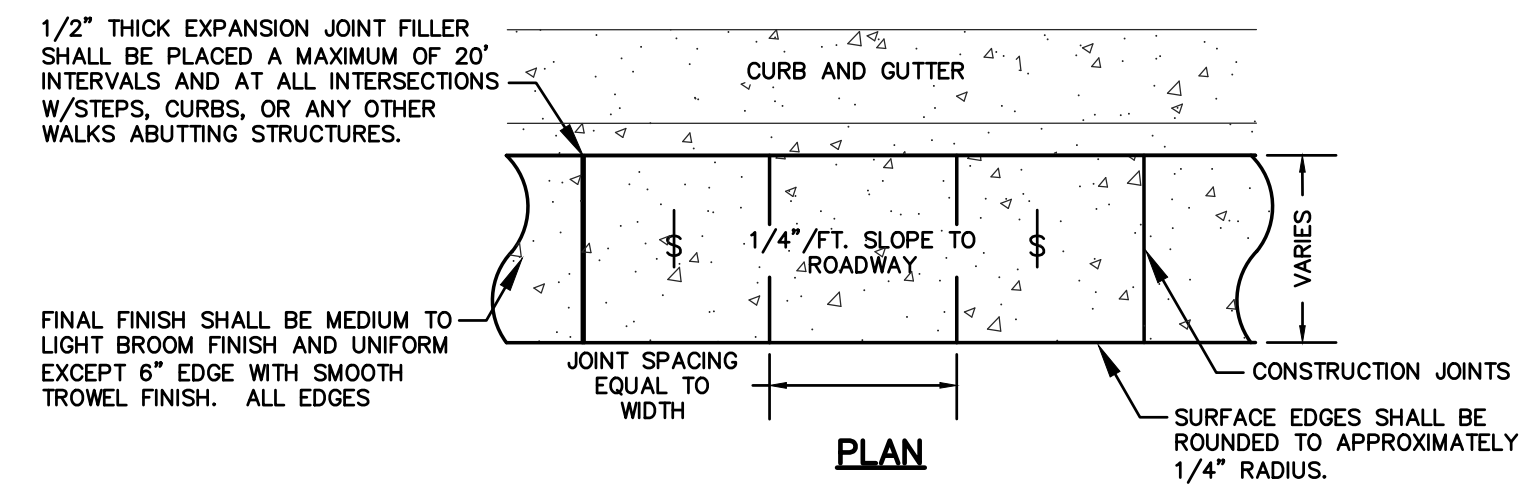


VALVE BOX DETAIL
N.T.S.

- NOTE: IF PRECAST CONCRETE VALVE COLLAR IS USED IN LIEU OF IN PLACE POUR, ANNUAL VOID AROUND VALVE BOX SHALL BE GROUTED TO THE FULL DEPTH OF THE COLLAR.

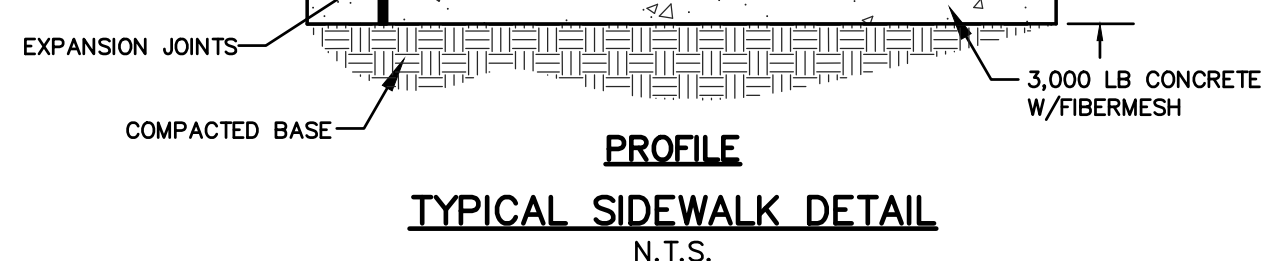


SECTION

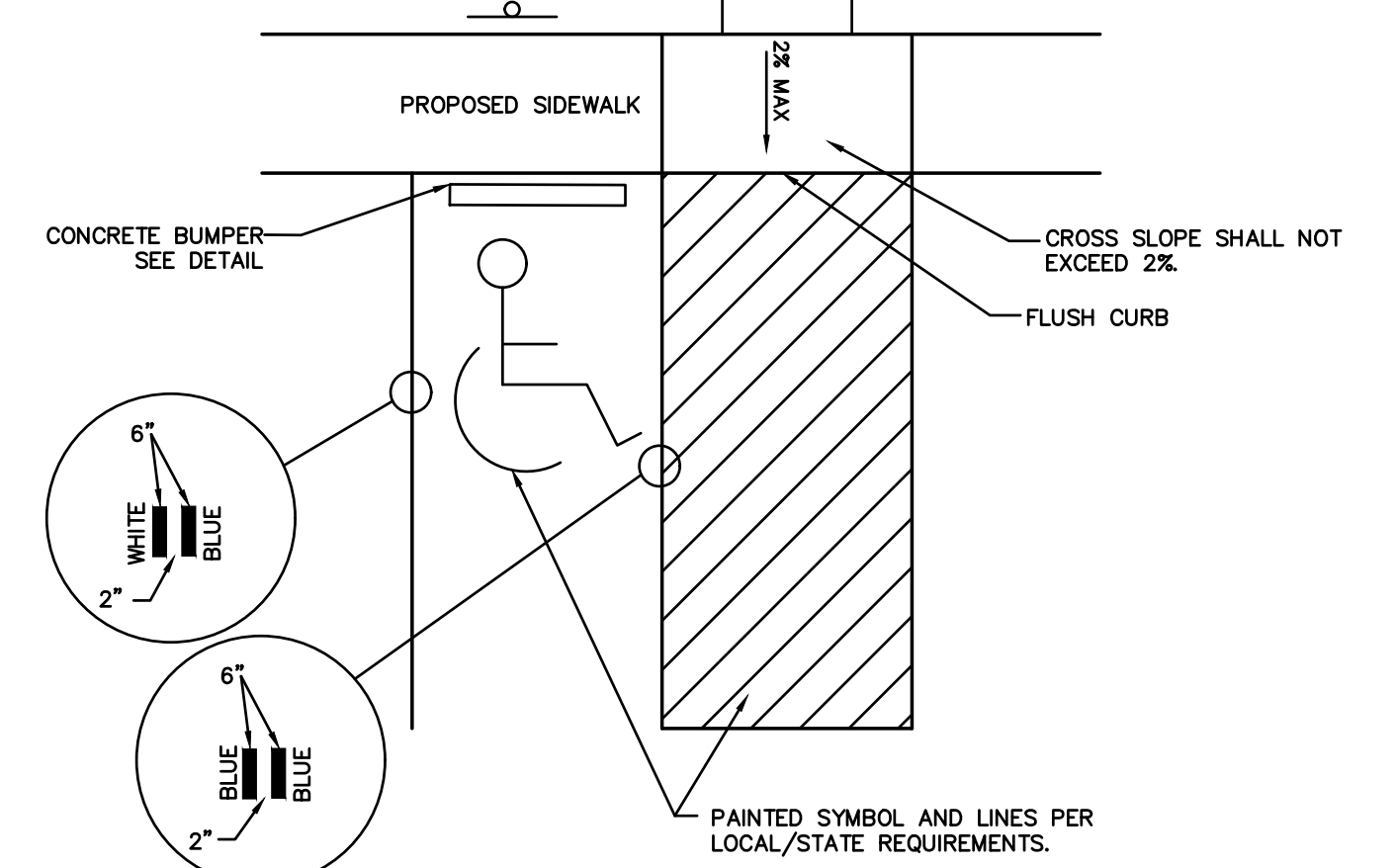


PLAN

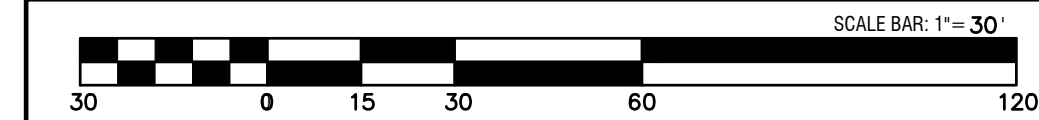
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2. FOR ELEVATION OF PIPES, SEE PLANS.
3. CONCRETE ENCASEMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.



TYPICAL SIDEWALK DETAIL
N.T.S.



HANDICAP PARKING AND RAMP DETAIL
N.T.S.



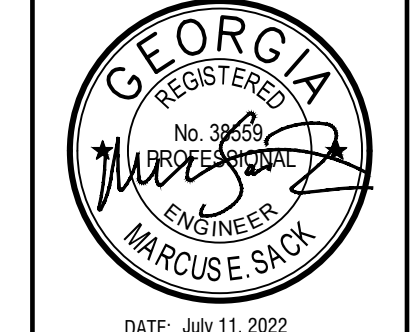
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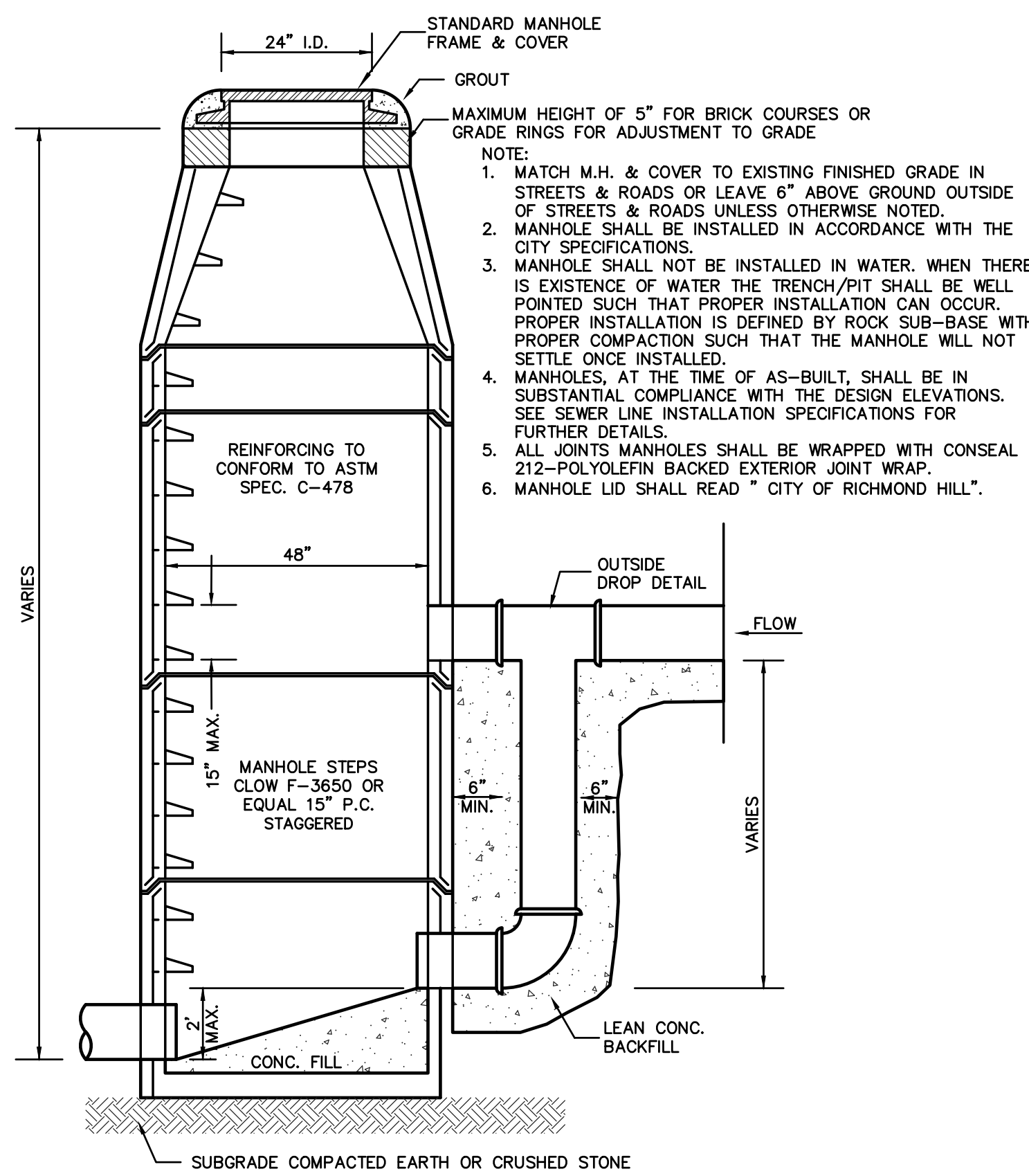
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GATEWAY PLAZA

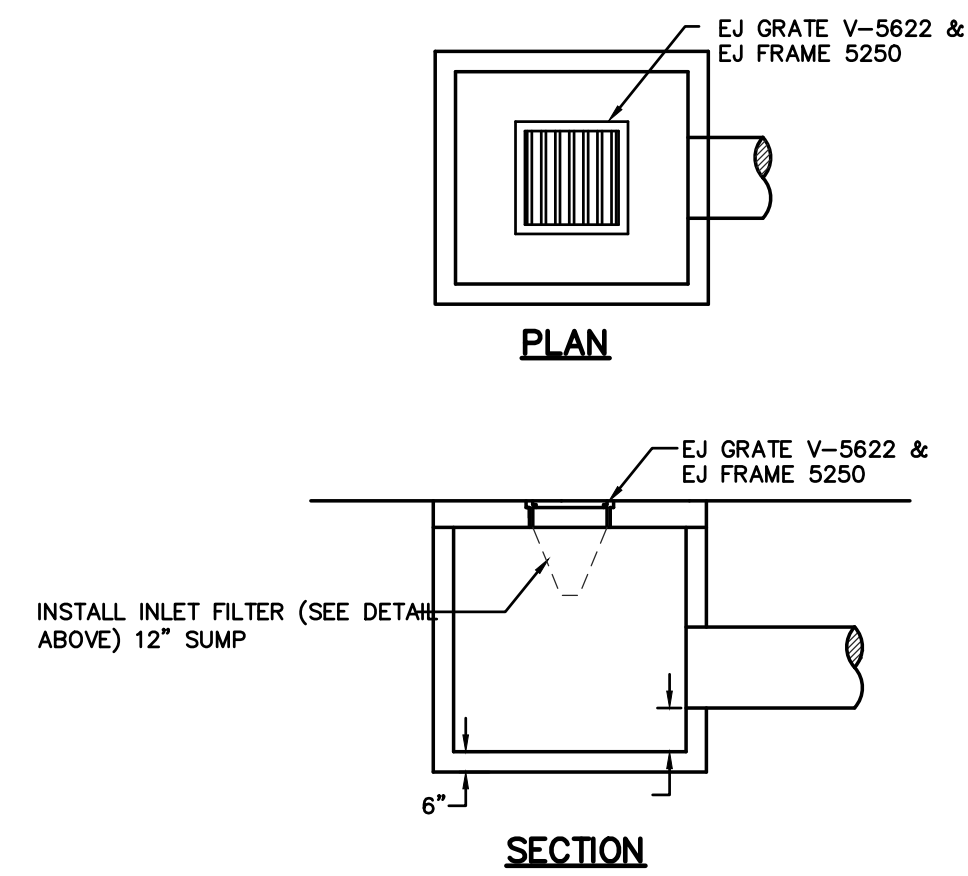
DETAILS

C602

FILE NO: 2021-64
PLOT DATE: June 28, 2022

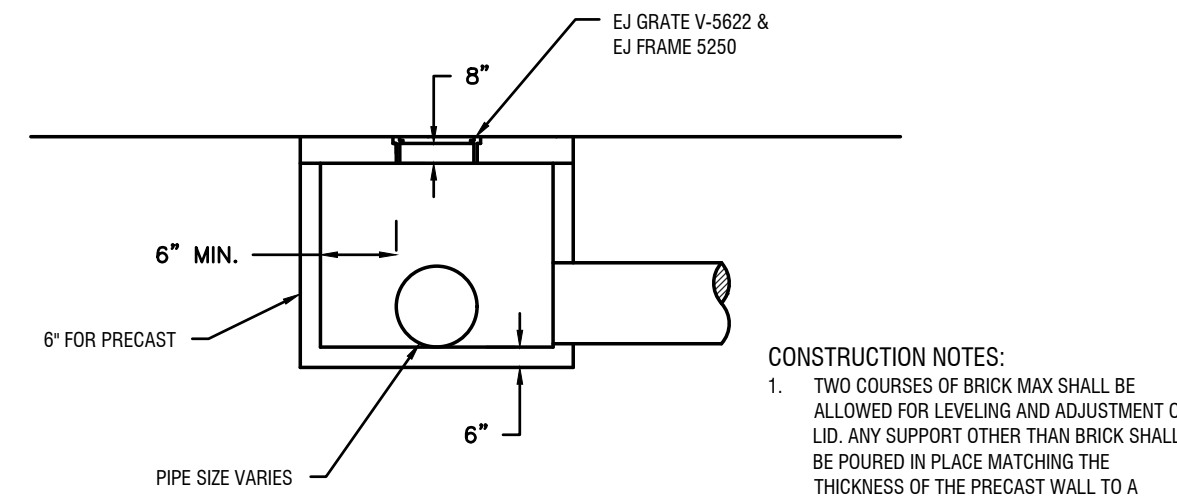


PRECAST CONCRETE MANHOLE
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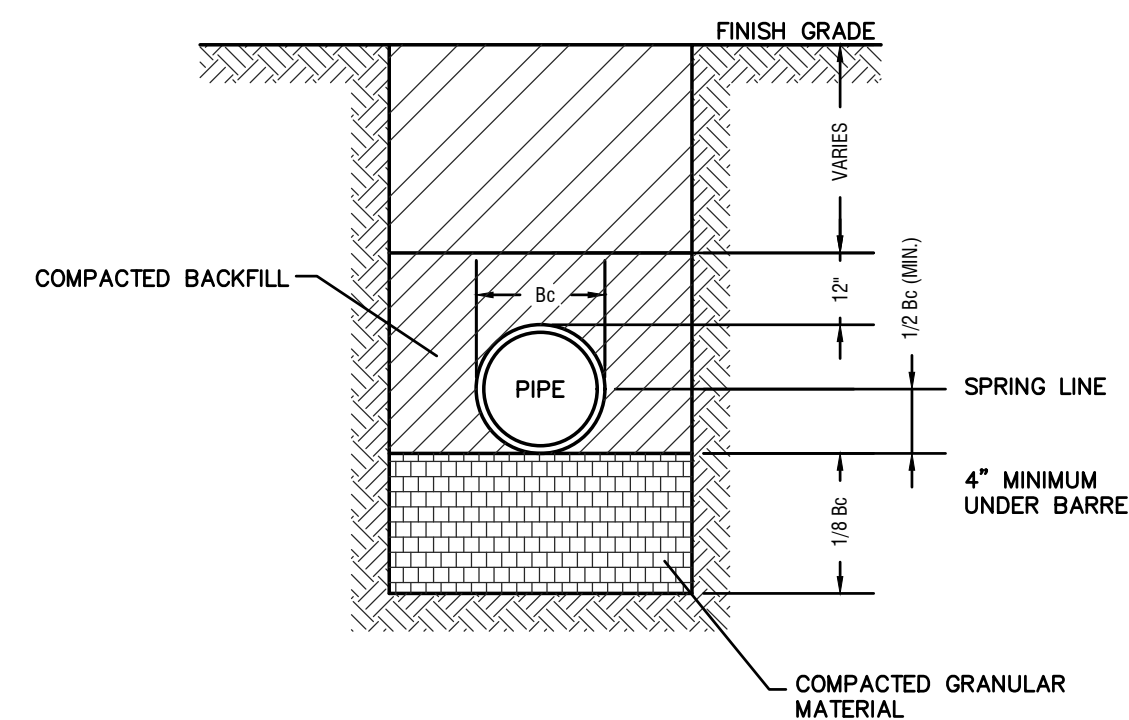


CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES.

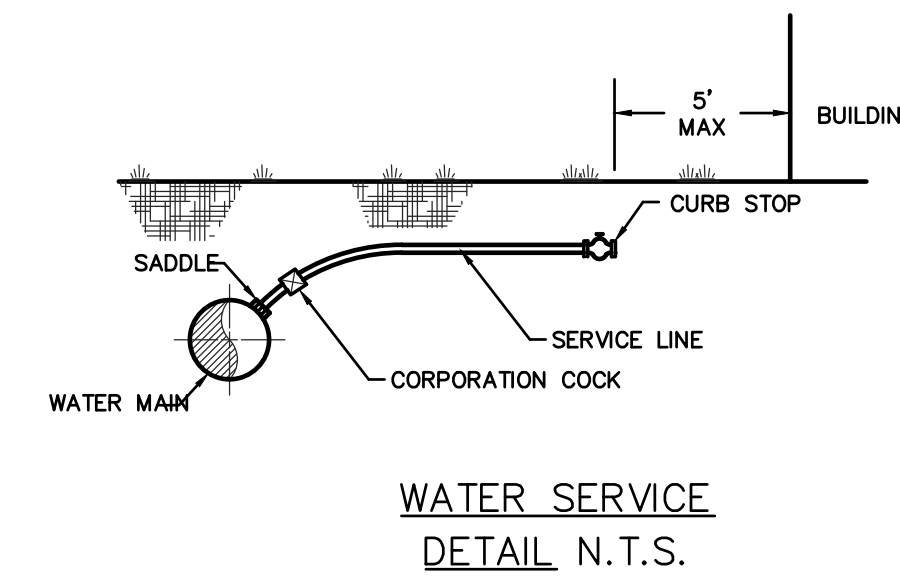
GRATE INLET
N.T.S.



JUNCTION BOX DETAIL
N.T.S.



PIPE BEDDING DETAIL
N.T.S.

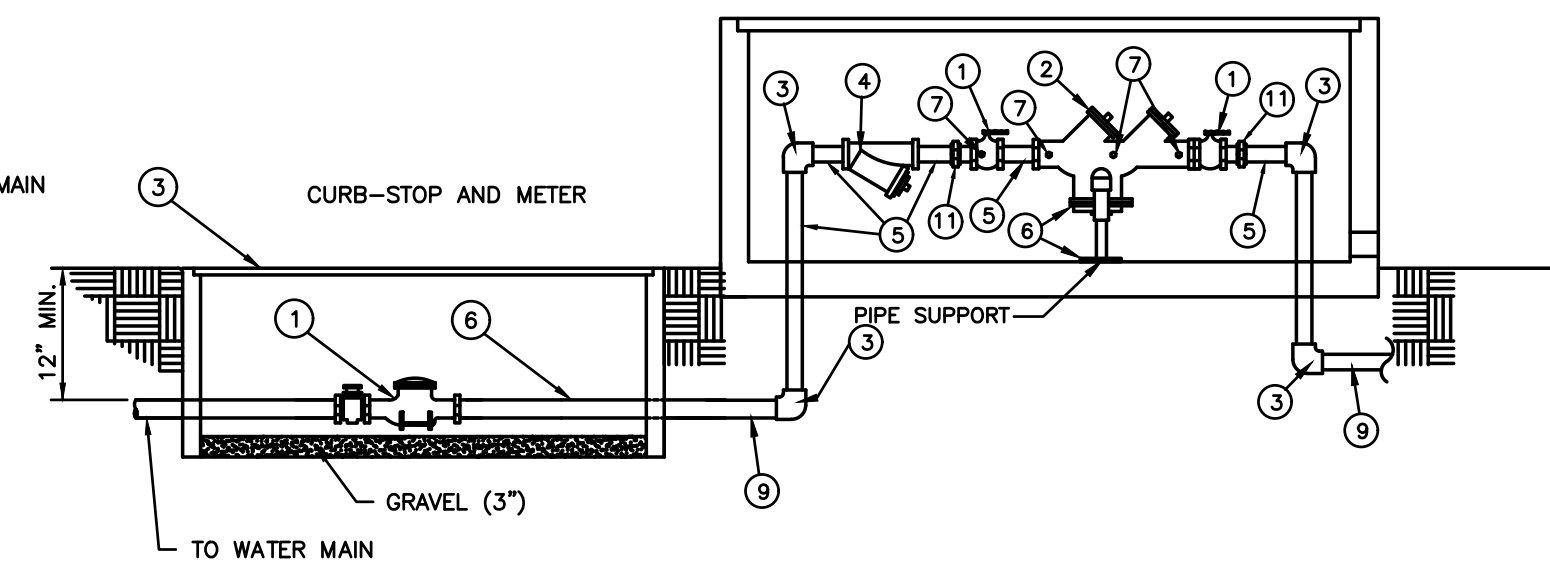


WATER SERVICE DETAIL
N.T.S.

RPZ MATERIALS		
ITEM	QUAN	DESCRIPTION
1	2	FULL PORT BALL VALVE
2	1	REDUCED PRESSURE ZONE DEVICE
3	4	BRASS ELLS THREADED OR FLANGED
4	1	STRAINER W/ RPZ DEVICE(OPTIONAL)
5	6	BRASS OR SHC 80 NIPPLES CUT TO LENGTH
6		PIPE STAND MIN.12"
7	4	BRASS PLUGS INSERTED IN TEST COCKS
8		2" X 2" DRAIN
9		SCH 80 PVC
10		ENCL. PER CITY SPECS FOR TYP. METER PIT
11	2	UNION

NOTES:
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR THE SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.

2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTER. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.



TYPICAL OUTSIDE INSTALLATION
(2", 2 1/2", 3", 4", 6", 8", & 10" SIZES)

MATERIALS		
ITEM	QUAN	DESCRIPTION
1	1	REDUCED PRESSURE ZONE DEVICE
2	2	O.S. & T. RESILIENT GATE VALVES
3	4	TEST COCKS
4	2	2" SCH 40 GALV. PIPE STAND & BASE BOLTED TO FLANGE
5	2	MJ 45° BENDS
6	4	FLANGED 45° BENDS
7	2	COMPANION FLANGES
8	8	3/4" DIA. GALV. ALL THREAD ROD
9	16	CARBON STEEL EYE BOLTS
10		DUCTILE IRON PIPE, CUT TO FIT
11		4" PEA GRAVEL IN BOTTOM OF PIT OR CONCRETE SLAB
12	2	DRAIN PORTS SIZE ACCORDING TO PIPE SIZE
13		3/8" ALUMINUM FLOOR PLATE / HATCH COVER
14		BOX-CEMENT BLOCK, POURED CONCRETE OR PREFABRICATED BOX PER CITY SPECS
15		C900 PVC PIPE
16	2	REACTION BLOCKS
17		2" X 2" MIN. HATCH

NOTES:
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR THE SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.

2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTER. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.

3. APPLICABLE TO TALL BUILDINGS OVER 2 STORES AND ESTABLISHMENTS WITH HAZARDOUS CONTAMINATION.

REDUCED PRESSURE DETECTOR ASSEMBLY FOR THE FIRE SYSTEM
N.T.S.

WM MATERIALS		
ITEM	QUAN	DESCRIPTION
1	1	WATER METER
2	1	DOUBLE CHECK VALVE ASSEMBLY
3	2	METER BOX (JUMBO METER BOX FOR 3/4", 1", 1 1/4", 1 1/2" & 2" BFD ONLY)
4	4	TEST COCKS
5	2	FULL PORT BALL VALVES
6		SCH. 40-PVC, OR BRASS CUT TO LENGTH
7	2	UNION

INSTALLATION INSTRUCTIONS:
THE ASSEMBLY SHALL NOT BE BURIED IN EARTH, BUT MAY BE INSTALLED IN A UTILITY BOX ADJACENT TO OR AS CLOSE AS PRACTICAL TO, THE OUTLET SIDE OF THE METER. UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT.

NOTES:
1. NEW METER INSTALLATIONS 3/4", 1", 1 1/4" & 1 1/2" TO BE INSTALLED BY CITY OF ?????????? WATER DISTRIBUTION DEPARTMENT

2. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE. INSTALLER MUST PROVIDE FOR THERMAL EXPANSION WITHIN THE PROJECT

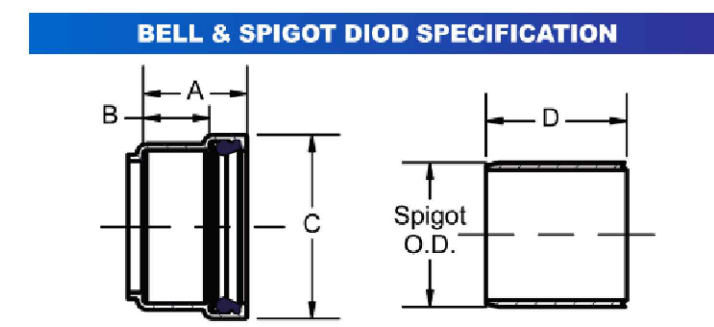
3. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTION DEVICE; UNDER NO CIRCUMSTANCE, SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.

REDUCED PRESSURE ZONE BFP & METER ASSEMBLY FOR DOMESTIC SYSTEM

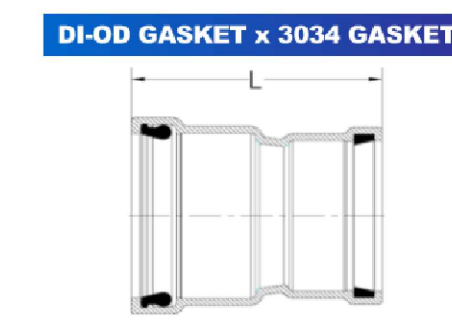
DUCTILE IRON SEWER ADAPTERS

For ASTM 3034 to DI-OD

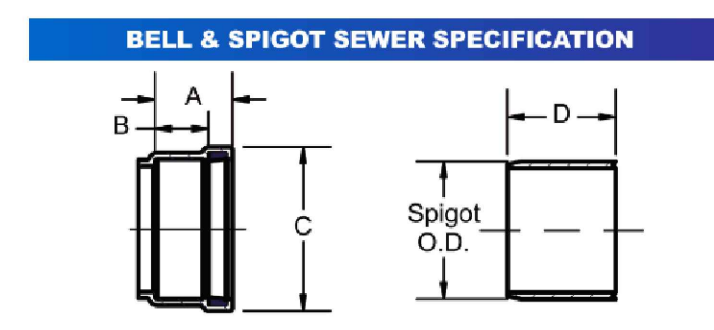
PRODUCT SHEET



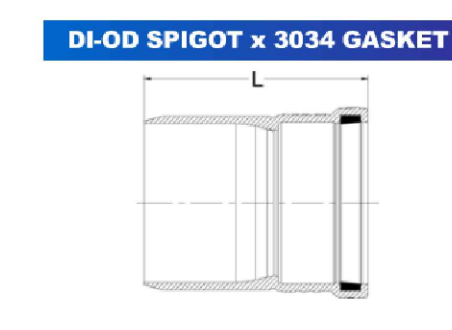
SIZE	A	B	C	D	SPIGOT OD
4	3.9	2.1	6.3	-	4.8
6	4.8	3.1	8.5	-	6.9
8	5.6	3.4	10.7	5.8	9.0
10	5.8	3.5	13.1	6.0	11.1
12	6.1	3.7	15.2	6.3	13.2



SIZE	PART #	L	WT. (APPROX)
6	2837-060	9.7	20.0
8	2837-080	11.0	31.5
10	2837-100	12.1	51.1
12	2837-120	12.9	67.3



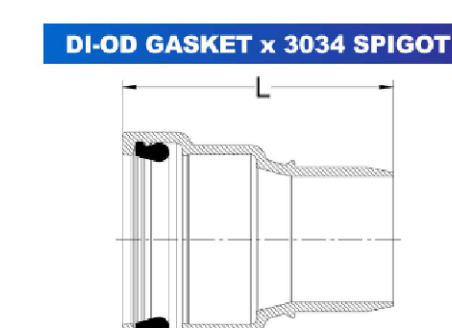
SIZE	A	B	C	D	SPIGOT OD
4	3.0	1.9	5.5	-	4.2
6	3.6	2.5	7.6	-	6.3
8	4.1	3.0	9.7	-	8.4
10	4.8	3.3	12.0	-	10.5
12	5.3	3.7	14.1	-	12.5



SIZE	PART #	L	WT. (APPROX)
8	2834-080	10.5	26.2
10	2834-100	11.5	39.2
12	2834-120	12.3	54.2

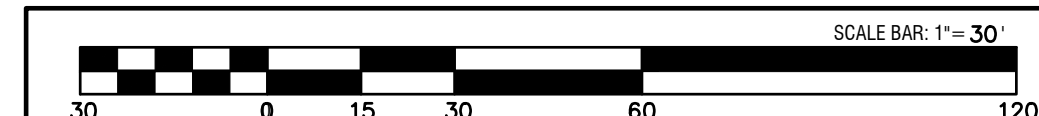
SUGGESTED SPECIFICATION:

Transition Couplings used to join Ductile Iron or C900 Pipe and D3034 PVC sewer pipe shall be Ductile Iron, deep bell, push on joint, and air test rated. Ductile Iron material shall comply with ASTM A536, Grade 65-45-12 or 80-55-06. Bell depths shall meet the minimum socket depth requirements of ASTM F1336. Gasket grooves shall be machined. Gaskets shall be of SBR rubber and comply with ASTM F477. No transition gaskets are permitted. All couplings shall have pipe stops and a flow way tapered to allow a smooth transition between the pipes. Fittings shall be manufactured by the Harrington Corporation of Lynchburg, VA.



SIZE	PART #	L	WT. (APPROX)
4	2836-040	11	
6	2836-060	18	

HARCO THE HARRINGTON CORPORATION
P.O. Box 10335 • Lynchburg, VA 24506-0335
Phone: (434) 845-7094 Fax: (434) 845-8562
sales@harcofittings.com www.harcofittings.com PF149-121609

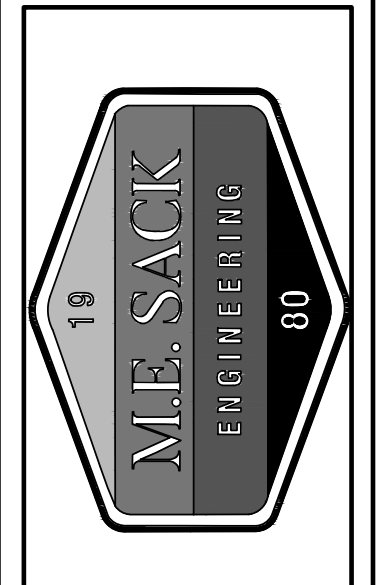


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COUNTY:
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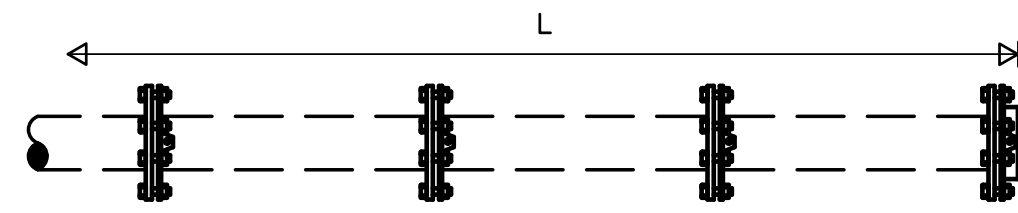
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GATEWAY PLAZA

DETAILS

C603

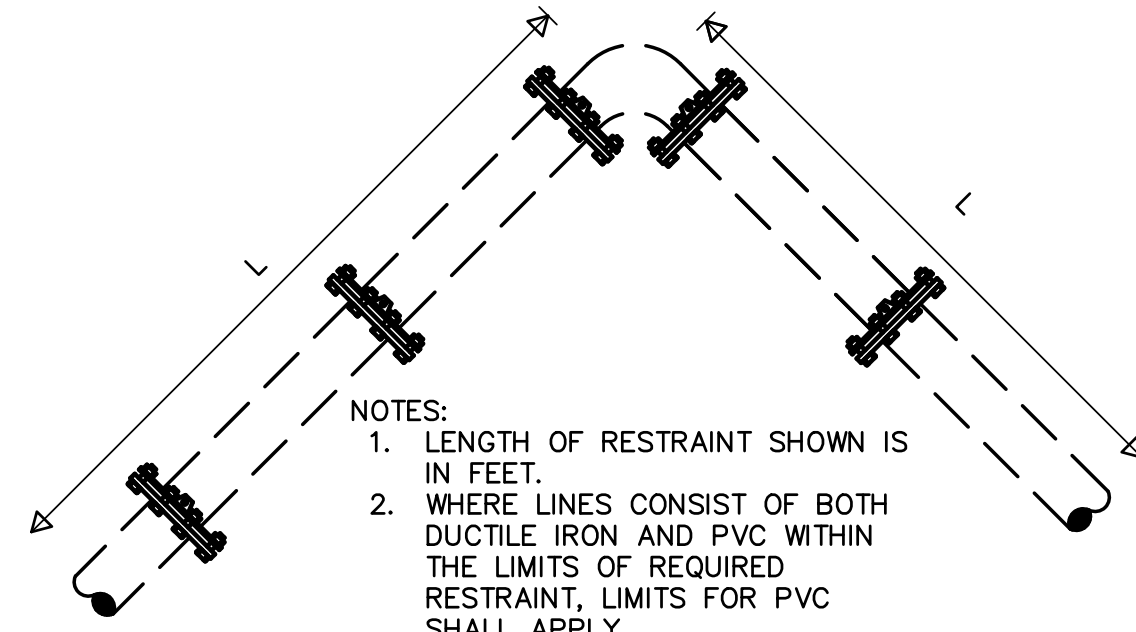
FILE NO: 2021-64
PLOT DATE: June 28, 2022



PIPE DIA.	DUCTILE IRON		PVC LINE	
	L	L	L	L
4	28	52		
6	40	74		
8	52	96		
10	62	115		
12	73	136		
16	94			
20	114			
24	132			

- NOTES:
 1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

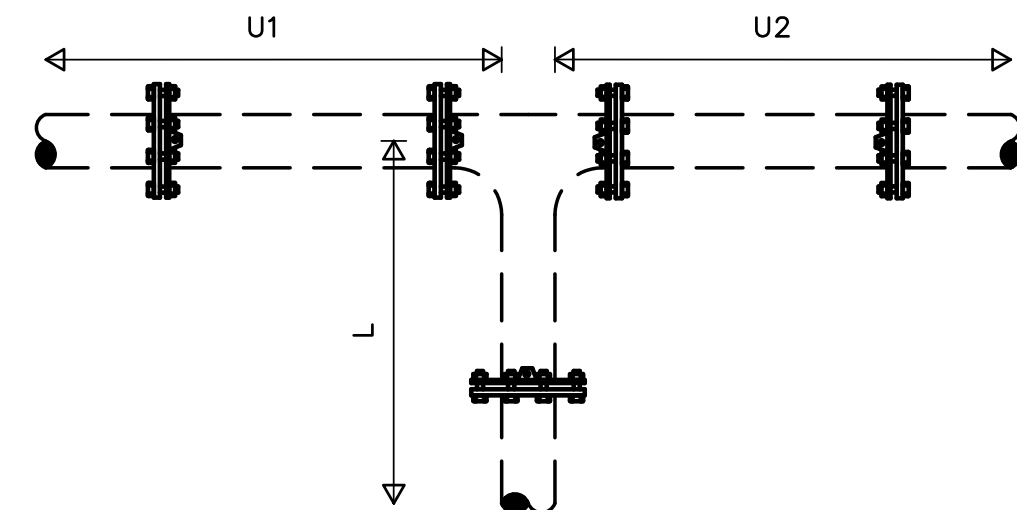
DEAD END RESTRAINT



- NOTES:
 1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

PIPE DIAMETER	DUCTILE IRON						PVC LINE					
	BEND ANGLE						BEND ANGLE					
	11 1/2'	22 1/2'	45'	90'	11 1/2'	22 1/2'	45'	90'	11 1/2'	22 1/2'	45'	90'
4	2	4	8	20	3	6	12	29	6	12	24	57
6	3	6	12	28	4	8	17	41	6	12	24	57
8	4	7	15	36	5	11	22	53	8	16	32	76
10	4	9	18	43	6	13	26	64	10	20	40	96
12	5	10	21	51	7	15	31	75	12	24	48	115
16	6	13	27	65								
20	8	16	33	79								
24	9	18	38	92								

HORIZONTAL BEND RESTRAINT



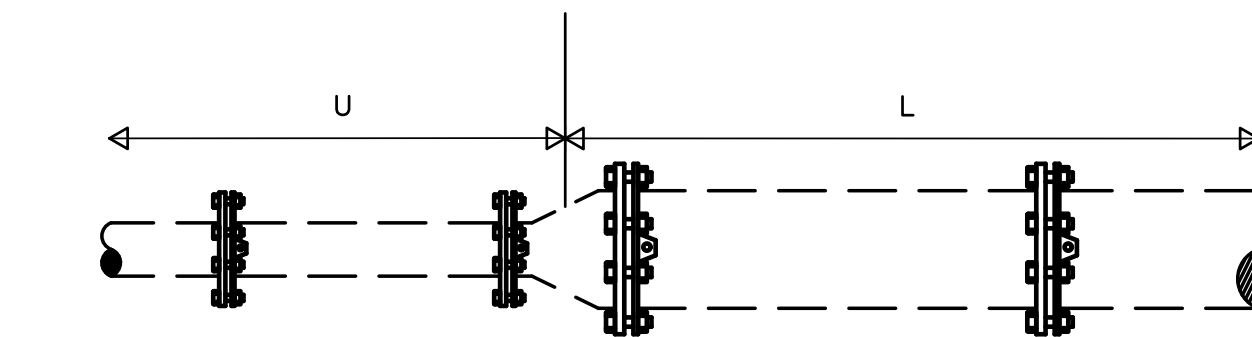
- NOTES:
 1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
 3. U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION.
 4. Ur = THE SMALLER OF U1 AND U2
 5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH.
 6. WHERE Ur IS LESS THAN 5', RESTRAINT TEE AS A 90° HORIZONTAL BEND.

TEE	Ur	DUCTILE IRON LINE			
		5'-10'	11'-20'	21'-35'	36'-50'
4X4	23	15	2	*	
6X4	21	9	*	*	
6X6	35	27	14	*	
8X4	18	3	*	*	
8X6	33	23	5	*	
8X8	47	39	26	6	
10X4	16	*	*	*	
10X6	31	18	*	*	
10X8	46	36	19	*	
10X10	57	49	36	17	
12X4	13	*	*	*	
12X6	30	14	*	*	
12X8	44	32	13	*	
12X10	56	47	31	7	
12X12	68	60	47	28	
16X8	26	4	*	*	
16X8	41	25	*	*	

TEE	Ur	DUCTILE IRON LINE						
		5'-10'	11'-20'	21'-35'	36'-50'	50'-75'	75'-100'	
16X10	54	41	20	*	*	*		
16X12	66	56	38	*	*	*		
16X16	89	81	38	*	*	*		
20X6	22	*	*	*	*	*		
20X8	38	18	*	*	*	*		
20X10	51	35	8	*	*	*		
20X12	64	51	28	*	*	*		
20X16	87	77	60	35	10	*		
20X20	106	100	87	67	48	*		
24X6	18	*	*	*	*	*		
24X8	35	10	*	*	*	*		
24X10	49	29	*	*	*	*		
24X12	62	45	17	*	*	*		
24X16	86	73	53	22	*	*		
24X20	107	97	81	57	33	*		
24X24	127	119	106	56	66	3		

TEE	Ur	PVC LINE			
		5'-10'	11'-20'	21'-35'	> 35'
4X4	43	28	4	*	
6X4	38	17	*	*	
6X6	64	49	25	*	
8X4	34	6	*	*	
8X6	61	42	10	*	
8X8	87	72	48	12	
10X4	29	*	*	*	
10X6	58	34	*	*	
10X8	84	66	35	*	
10X10	108	91	67	31	
12X4	24	*	*	*	
12X6	54	26	*	*	
12X8	82	60	23	*	
12X10	104	86	57	13	
12X12	126	112	87	51	

MINIMUM RESTRAINED LENGTH (L) * RESTRAINT AT TEE ONLY
TEE RESTRAINT



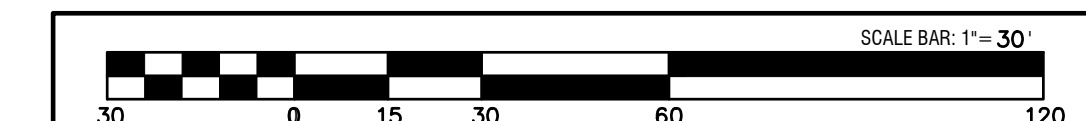
REDUCER	DUCTILE IRON		PVC LINE	
	U	L	U	L
6X4	30	21	56	38
8X4	72	38	134	69
8X6	29	22	53	40
10X4	123	51	227	94
10X6	63	38	117	71
10X8	26	21	49	39
12X4	186	64	343	118
12X6	106	53	196	99
12X8	59	39	109	72
12X10	26	21	48	40
16X6	214	79		
16X8	141	68		
16X10	91	56		
16X12	54	40		
20X10	174	84		
20X12	123	71		
20X16	51	40		
24X12	207	97		
24X16	113	72		
24X20	48	39		

- U = MINIMUM UNINTERRUPTED STRAIGHT RUN PIPE ON SMALL SIDE OF REDUCER.
 L = MINIMUM RESTRAINED LENGTH.
 * WHERE "U" IS NOT MET, PIPE ON LARGE SIDE OF REDUCER SHALL BE RESTRAINED FOR A MINIMUM OF "L" FEET.

- NOTES:
 1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

REDUCER RESTRAINT

RESTRAINED JOINTS
 DETAILS N.T.S.



NO.	DESCRIPTION

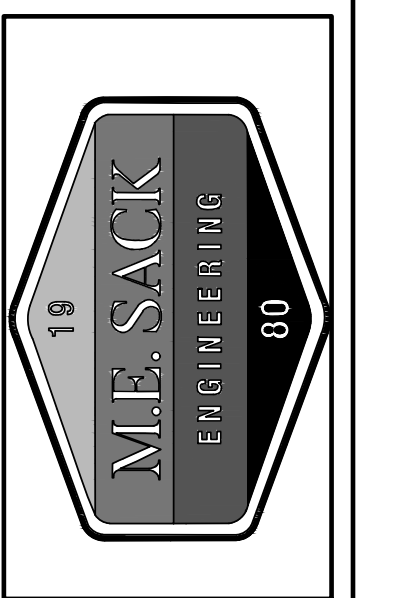
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DATE: July 11, 2022



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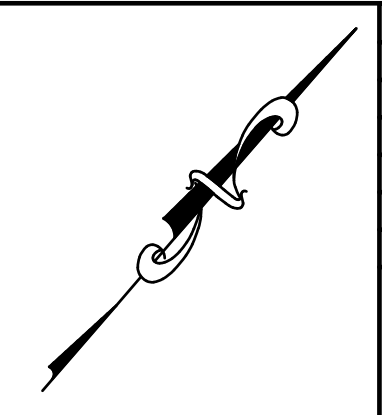
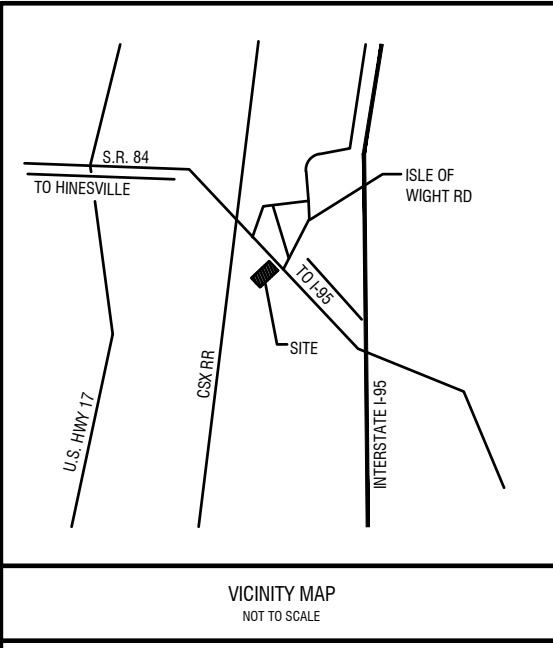
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DETAILS

C604

FILE NO: 2021-64

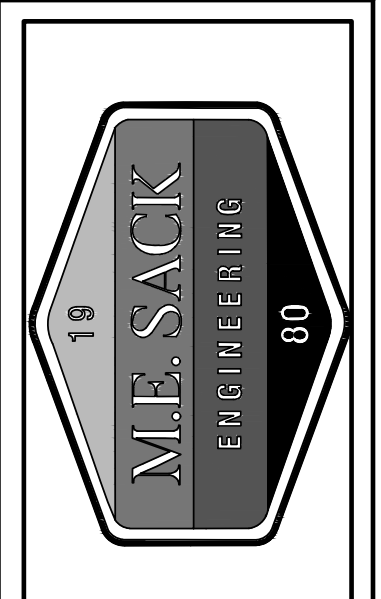
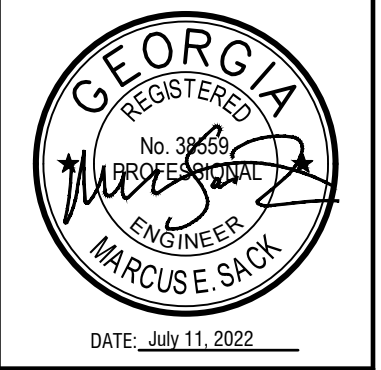
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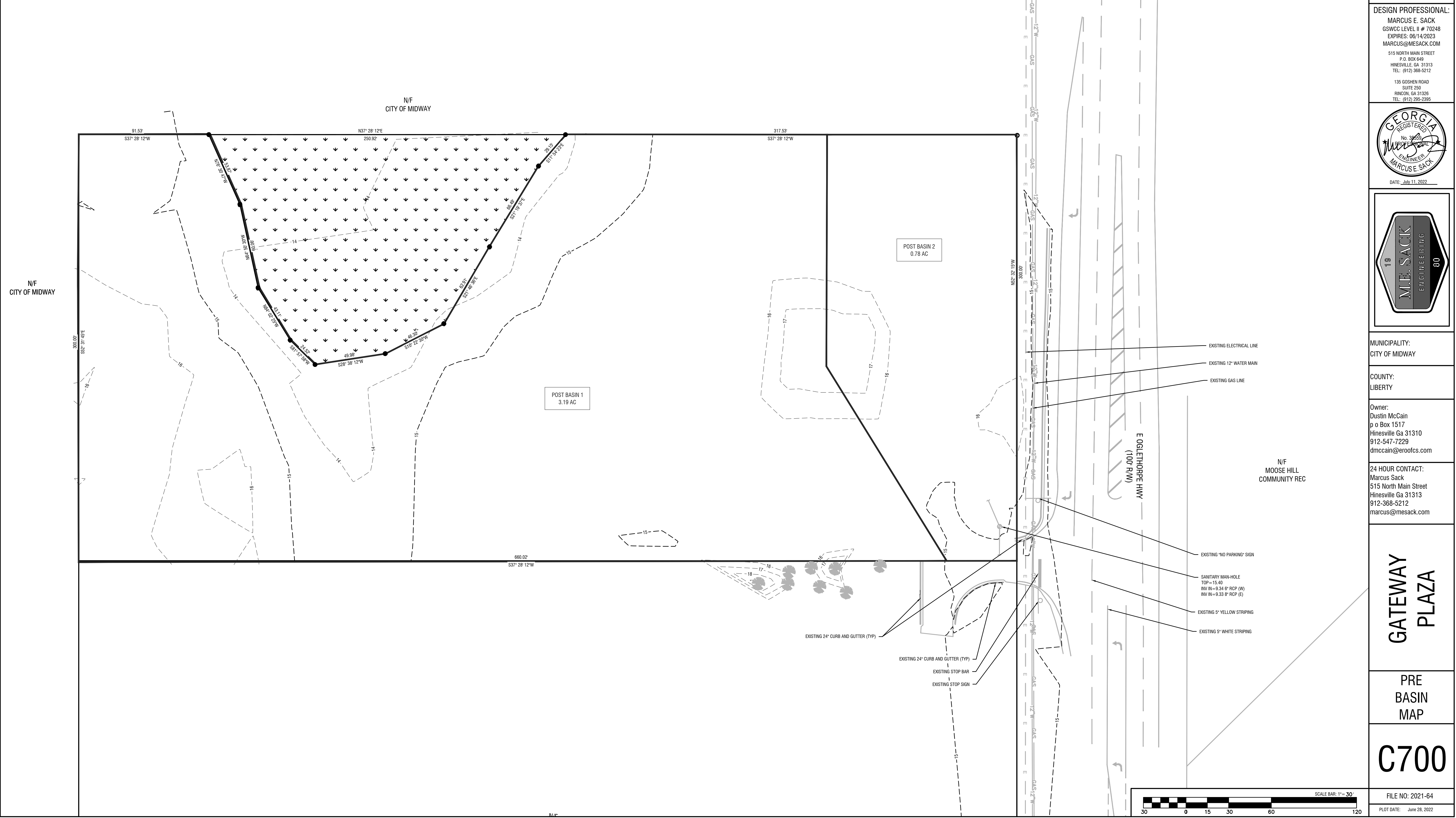
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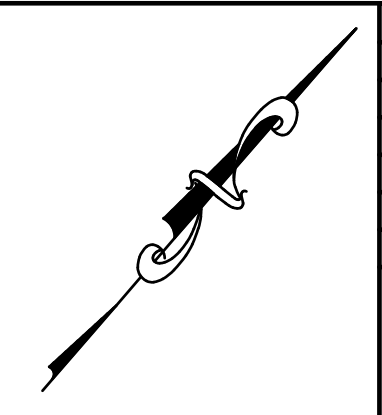
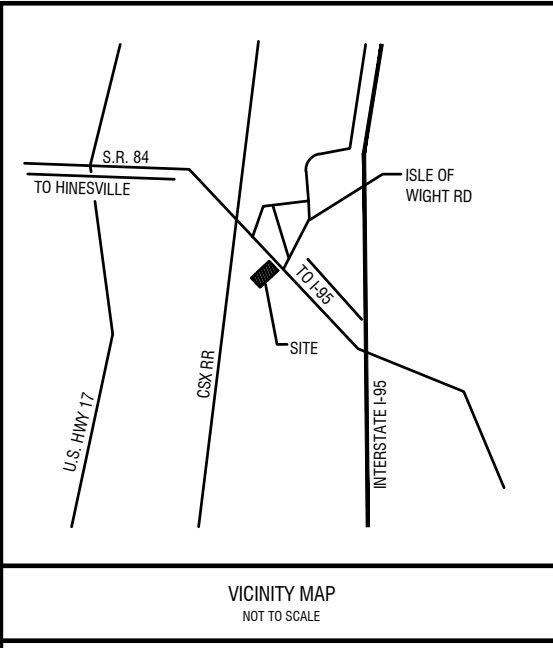
GATEWAY PLAZA

PRE BASIN MAP

C700

FILE NO: 2021-64
PLOT DATE: June 28, 2022

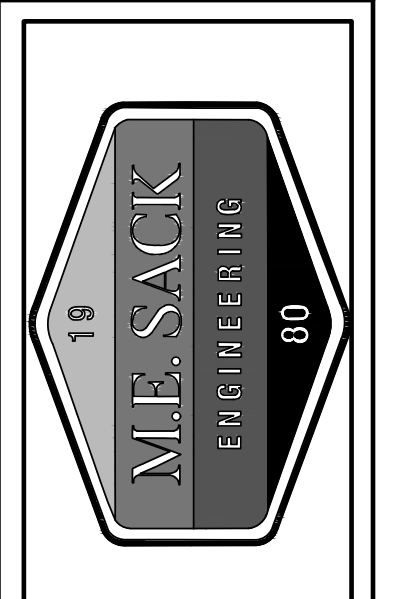
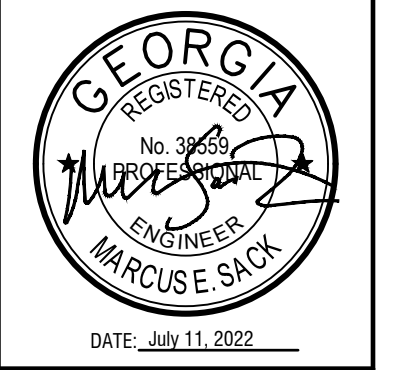




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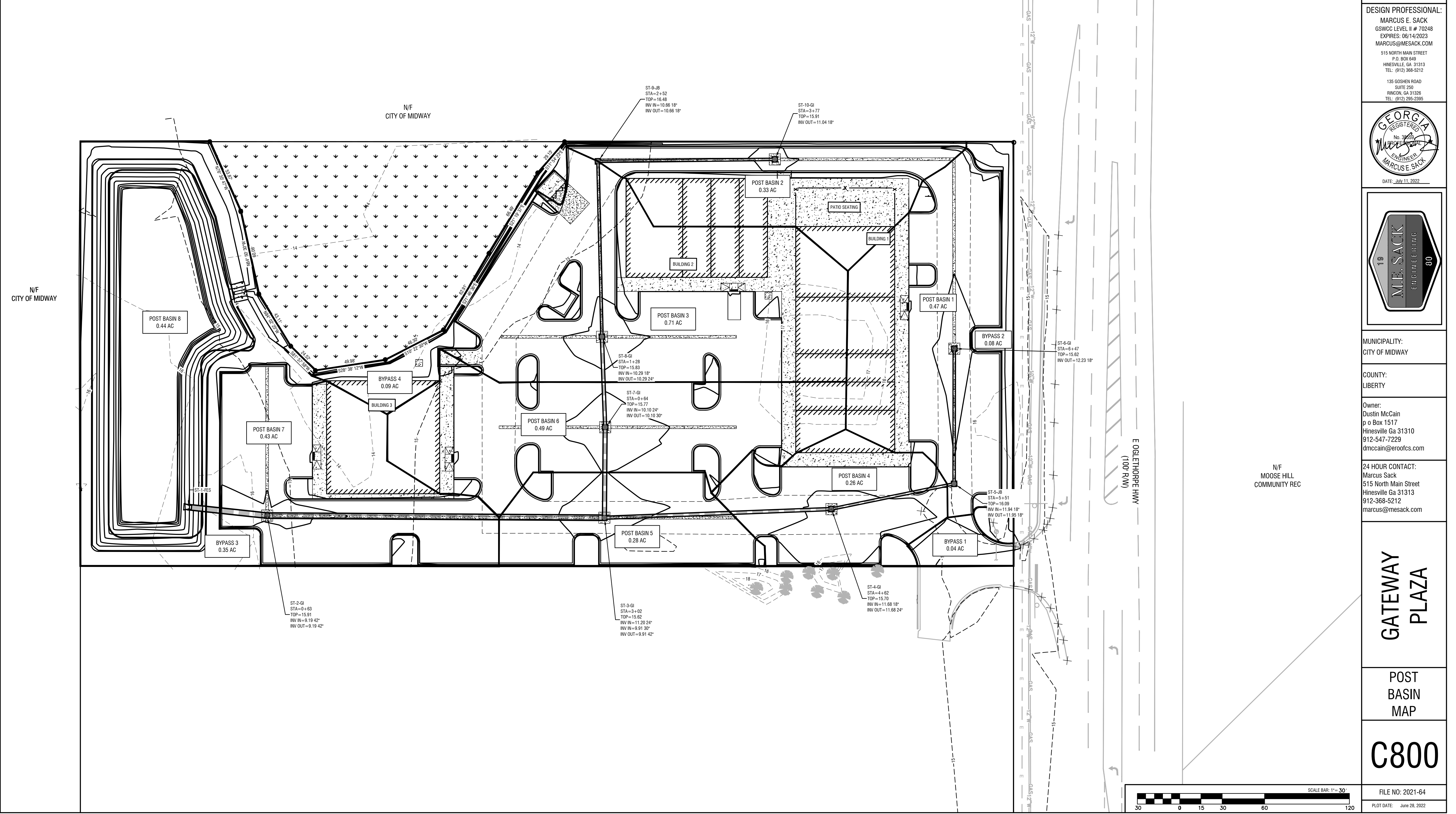
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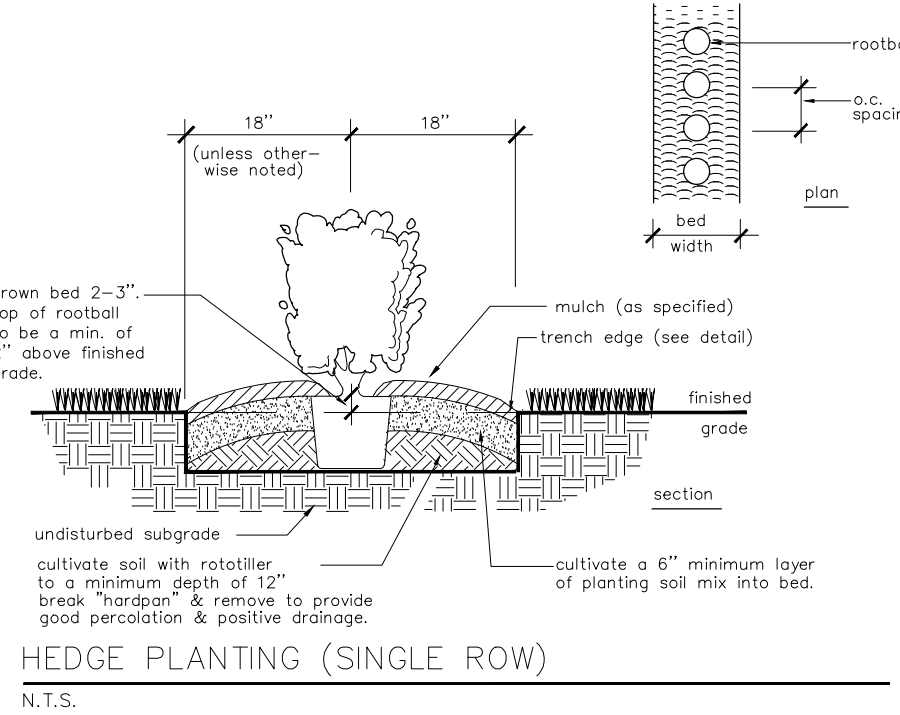
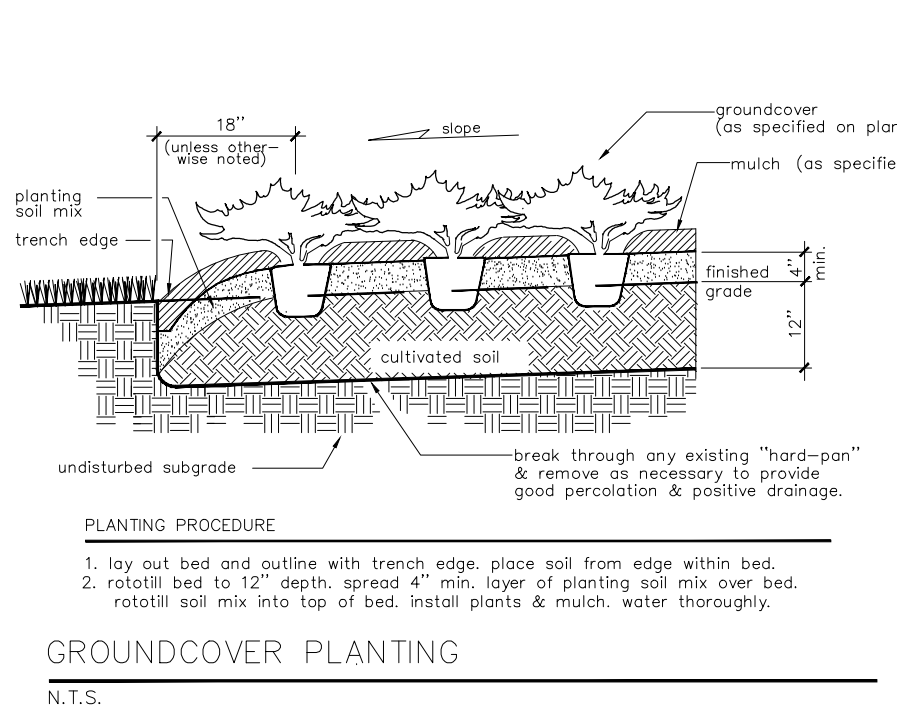
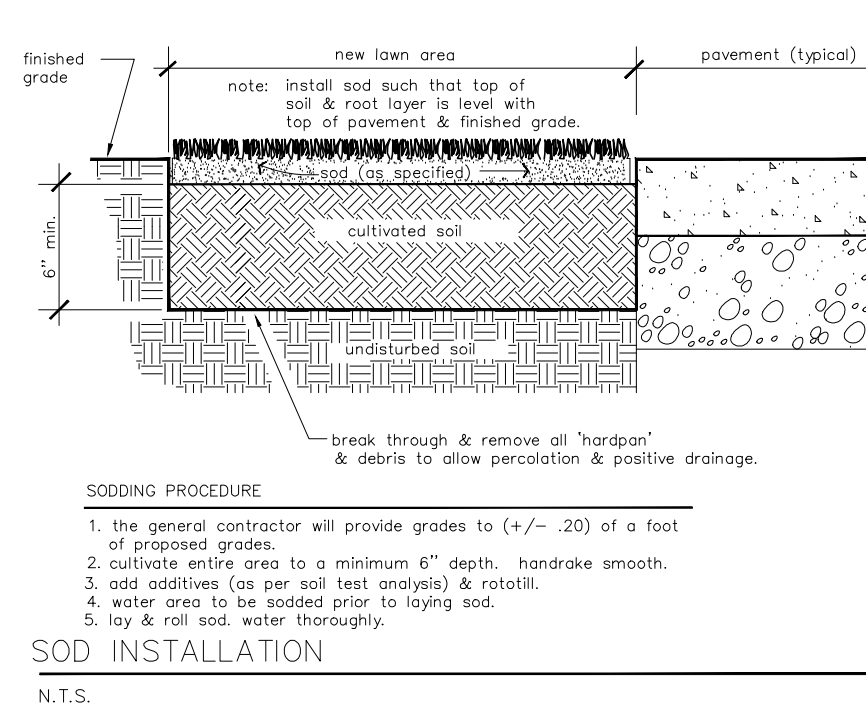
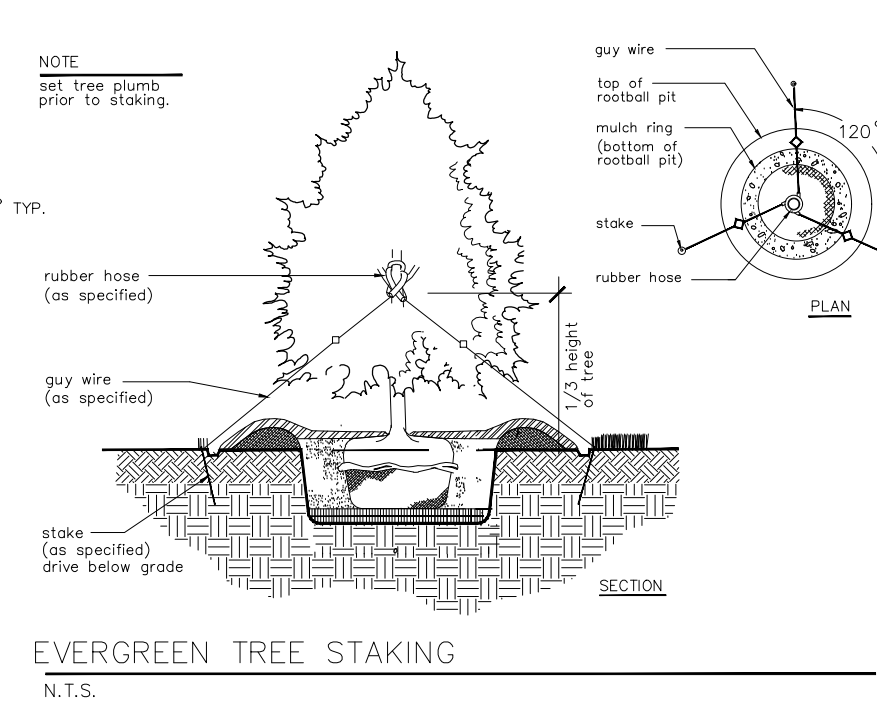
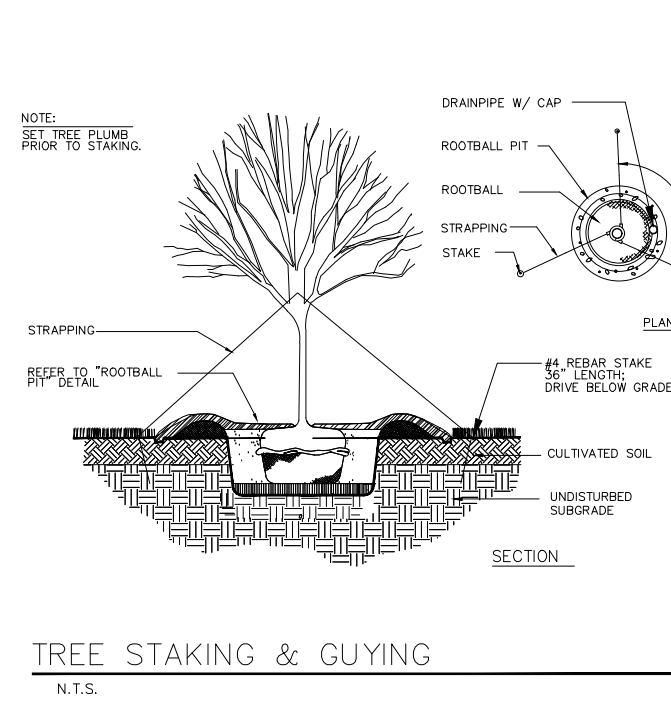
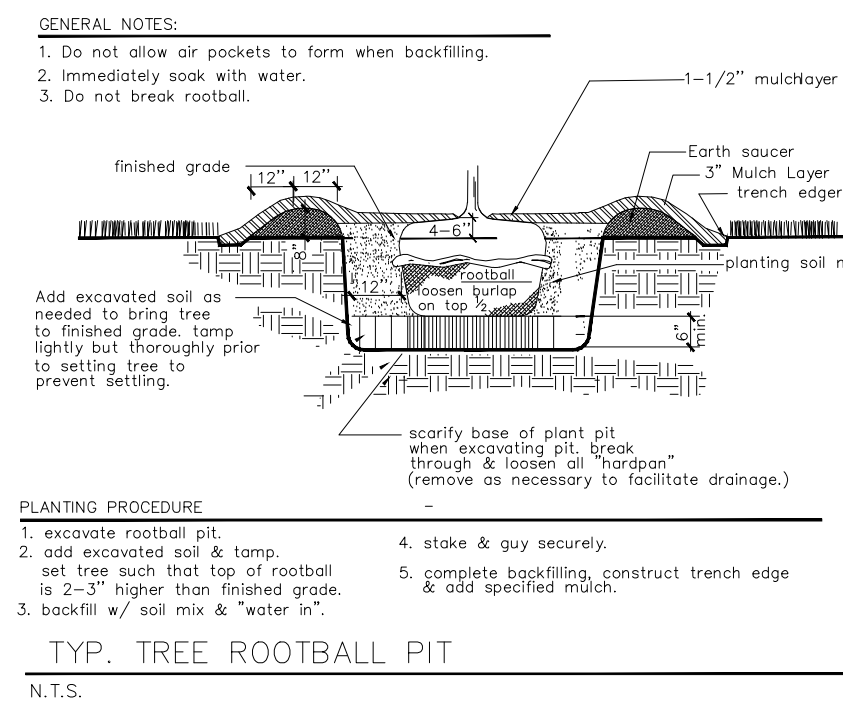
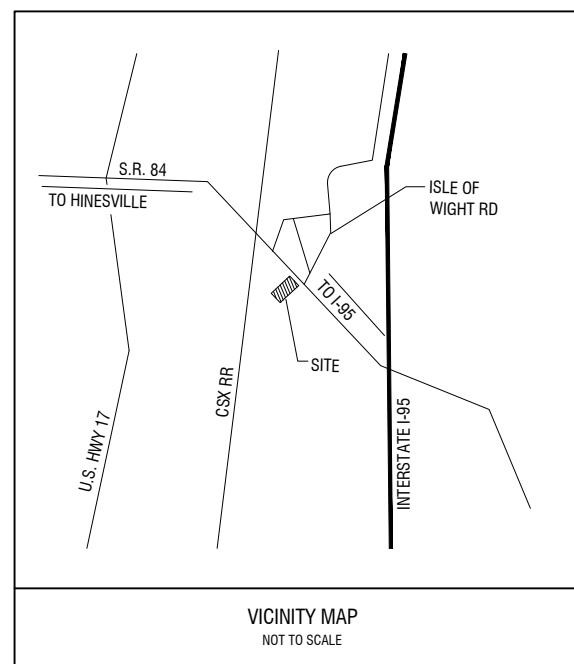
GATEWAY PLAZA

POST BASIN MAP

C800

FILE NO: 2021-64
PLOT DATE: June 28, 2022

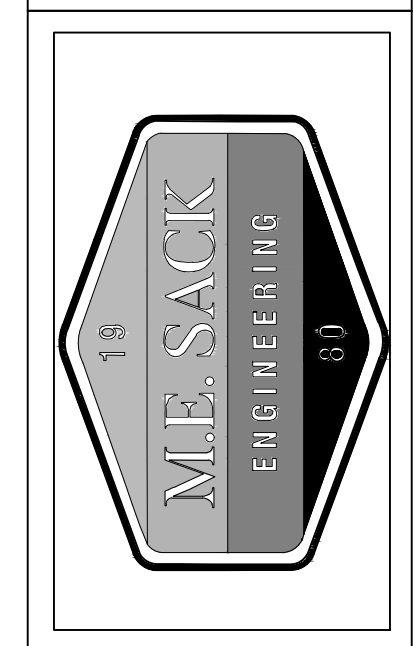
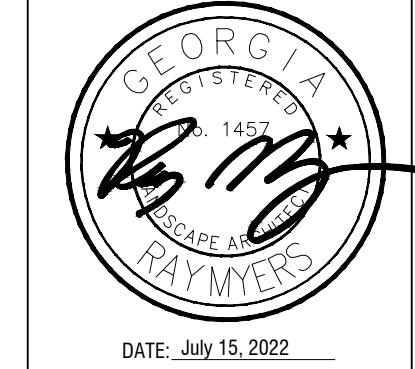




REVISIONS:

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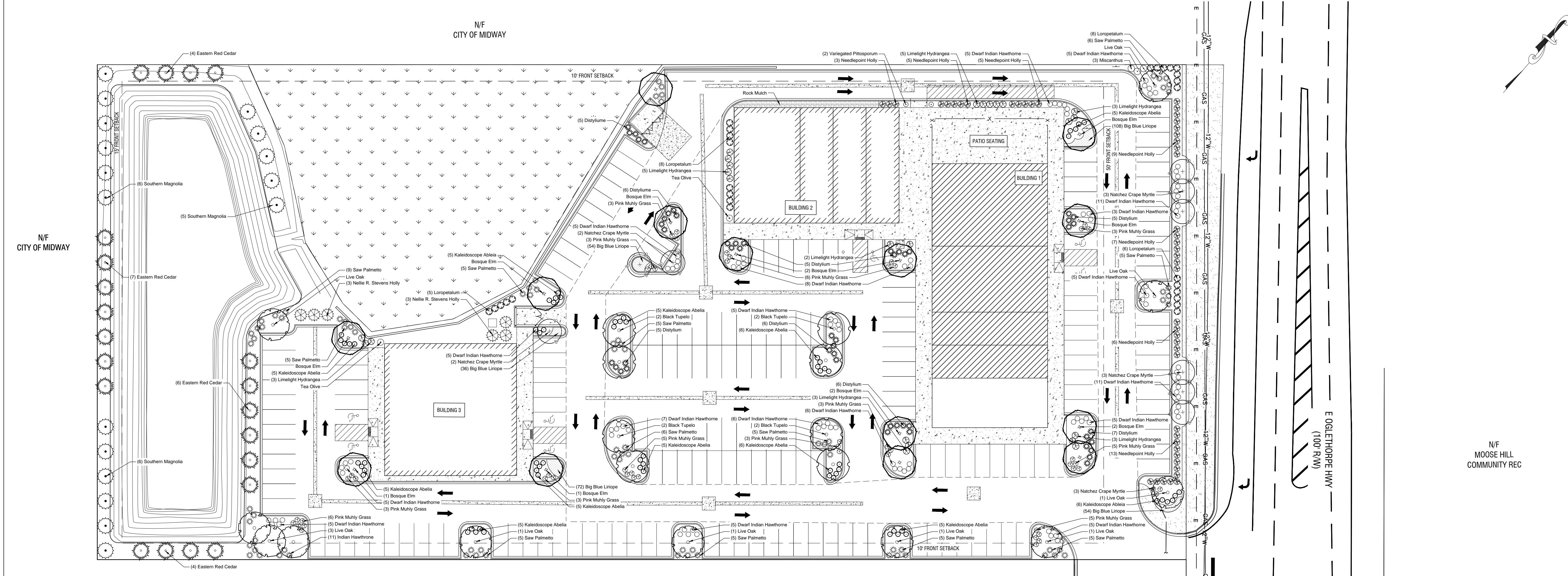


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- GENERAL PLANTING NOTES:**
- ALL PLANTS TO BE FULL, HEALTHY SPECIMENS
 - PLANT MATERIALS TO MEET MINIMUM REQUIREMENTS AS ESTABLISHED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK
 - PLANTS ARE SUBJECT TO APPROVAL OF OWNER OR OWNER'S REPRESENTATIVE BEFORE, DURING AND AFTER INSTALLATION
 - DO NOT BREAK ROOTBALL
 - DO NOT ALLOW AIR POCKETS TO FORM DURING BACKFILL
 - SOIL TO BE AMENDED WITH SLOW RELEASE FERTILIZER
 - IMMEDIATELY SOAK PLANTS WITH WATER
 - CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTENANCE INCLUDING WATERING, WEEDING, SETTLING AND PRUNING OF THIS WORK UNTIL DATE OF SUBSTANTIAL COMPLETION
 - LANDSCAPE CONTRACTOR IS ADVISED OF POSITION OF UNDERGROUND UTILITIES AND SHALL CHECK LOCATION OF SAME BEFORE COMMENCING DIGGING
 - CONTRACTOR SHALL FULLY WARRANT ALL PLANT MATERIALS FOR A PERIOD OF ONE (1) YEAR BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETION
 - CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN TAKE OFF QUANTITIES AND SHALL ADVISE PROJECT ENGINEER OF ANY DISCREPANCIES
 - SPACING FOR ALL PLANT MATERIALS AS INDICATED ON PLAN
 - CONTRACTOR SHALL FLAG LOCATION OF ALL PLANT MATERIAL FOR APPROVAL OF PROJECT ENGINEER BEFORE INSTALLATION
 - ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 3" OF CLEAN, FRESH PINE STRAW
 - PLANTING MIX TO BE:
3 PARTS TOPSOIL
1 PART COMPOST i.e. MUSHROOM SOIL OR BLACK KOW

TREE QUALITY POINTS CALCULATIONS:

REQUIRED TREE QUALITY POINTS:
TREE QUALITY POINTS = 1,600 / ACRE
DEVELOPED AREA = 4.64 ACRES LESS .6 ACRES WETLANDS
3.94 ACRES X 400 POINTS / ACRE = 6,304 TREE QUALITY POINTS

POINTS REQUIRED = 6,304
POINTS PROVIDED = 6,390

LANDSCAPE QUALITY POINTS CALCULATIONS:

REQUIRED LANDSCAPE QUALITY POINTS:
LANDSCAPE QUALITY POINTS = 400 / ACRE
DEVELOPED AREA = 4.64 ACRES LESS .6 ACRES WETLANDS
3.94 ACRES X 400 POINTS / ACRE = 1,576 LANDSCAPE QUALITY POINTS

POINTS REQUIRED = 1,576
POINTS PROVIDED = 1,689.4

PARKING LOT QUALITY POINT CALCULATIONS:

REQUIRED TREE QUALITY POINTS:
PARKING AREA TREE QUALITY POINTS = 1,200 / ACRE
PARKING AREA = 1.85 ACRES
1.85 ACRES X 1,200 POINTS / ACRE = 2,220 TREE QUALITY POINTS

POINTS REQUIRED = 2,220
POINTS PROVIDED = 2,970

Trees

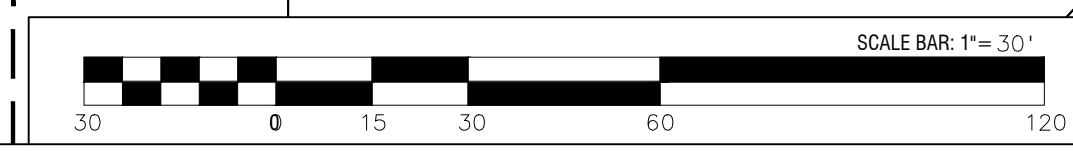
QU	SYM	Scientific Name	Common Name	QP	TPQ	LQP	Planting Size	Spacing	Comments
6		Ilex x 'Nellie R. Holly'	Nellie R. Stevens Holly	10	N/A	60	6' - 8'	as shown	
21		Juniperus virginiana 'Hillii'	Eastern Red Cedar	90	1890	N/A	3'-Cal	as shown	
17		Lagerstroemia x 'Muskogee'	Crape Myrtle	10	N/A	90	6' - 8'	as shown	Multi-Stem
9		Magnolia grandiflora	Southern Magnolia	90	1530	N/A	3'-Cal	as shown	
8		Nyssa sylvatica	Black Tupelo	90	720	N/A	3'-Cal	as shown	
11		Quercus virginiana	Live Oak	90	990	N/A	3'-Cal	as shown	
14		Ulmus parviflora 'Bosque'	Bosque Elm	90	1260	N/A	3'-Cal	as shown	
				6,390	150				

Shrub

QU	SYM	Scientific Name	Common Name	QP	TPQ	LQP	Planting Size	Spacing	Comments
66		Abelia x grandiflora 'Kaleidoscope'	Kaleidoscope Abelia	3	N/A	198	3-Gal	4' o.c.	
50		Distylium x 'Spring Frost'	Spring Frost Distylium	3	N/A	150	3-Gal	3' o.c.	
24		Hydrangea paniculata 'Limelight'	Limelight Hydrangea	3	N/A	72	3-Gal	4' o.c.	
48		Ilex cornuta 'Needlepoint'	Needlepoint Holly	3	N/A	144	3-Gal	4' o.c.	
27		Loropetalum chinense var. Rubrum 'Ruby'	Ruby Loropetalum	5	N/A	135	3-Gal	3' o.c.	
3		Miscanthus sinensis 'Gracillimus'	Miscanthus	3	N/A	9	3-Gal	4' o.c.	
51		Muhlenbergia capillaris	Pink Muhly Grass	1	N/A	51	3-Gal	3' o.c.	
2		Osmanthus fragrans	Tea Olive	10	N/A	20	7-Gal	4' o.c.	
10		Pittosporum tobira 'Variegatum'	Variegated Pittosporum	3	N/A	6	3-Gal	3' o.c.	
104		Rhaphiolepis indica 'Ballerina'	Dwarf Indian Hawthorne	3	N/A	312	3-Gal	3' o.c.	
82		Serenoa repens	Saw Palmetto	5	N/A	410	3-Gal	3' o.c.	
				1,507					

Ground Cover

QU	SYM	Scientific Name	Common Name	QP	TPQ	LQP	Planting Size	Spacing	Comments
324		Liriope muscari	Big Blue Liriope	.1	N/A	32.4	4" pot	1' o.c.	
				32.4					



GATEWAY PLAZA

LANDSCAPING PLAN

C900

FILE NO: 2021-64
PLOT DATE: July 15, 2022