I. GENERAL

1. IT IS TO BE UNDERSTOOD THAT ALL REFERENCES TO "THE SEWERAGE AND WATER BOARD (S&WB) ENGINEER" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE GENERAL SUPERINTENDENT OF THE S&WB OR HIS APPOINTED REPRESENTATIVE AND ALL REFERENCES TO "THE S&WB INSPECTOR" THROUGHOUT THIS DOCUMENT SHALL REFER TO THE INSPECTOR ASSIGNED TO THE PROJECT BY THE S&WB ENGINEER. THE S&WB INSPECTOR SHALL REPRESENT THE S&WB ENGINEER IN HIS/HER ABSENCE. IT IS ALSO TO BE UNDERSTOOD THAT ALL REFERENCES TO S&WB DRAWINGS AND SPECIFICATIONS REFER TO THE LATEST EDITION OR REVISION.

2. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF NEW WATER MAINS, VALVES, MANHOLES, HYDRANTS AND HOUSE CONNECTIONS REQUIRED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.

3. THE S&WB WORK FORCE SHALL BE RESPONSIBLE FOR THE CLOSURE OF ALL WATER VALVES. THE CONTRACTOR SHALL CONTACT THE NETWORKS ADMINISTRATION AT 2900 PEOPLES AVE., N.O. LA 70122, TWO WEEKS IN ADVANCE OF ANY REQUIRED WATER CLOSURES.

4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE GENERAL SPECIFICATIONS OF THE S&WB. ANY MODIFICATION FROM THE DESIGN DRAWINGS PERTAINING TO S&WB FACILITIES MUST BE APPROVED BY THE S&WB ENGINEER PRIOR TO CONSTRUCTION.

5. ELEVATIONS SHOWN ON THE DRAWINGS MAY REFER TO NAVD 88 OR TO CARIO DATUM. IF THE NOTED ELEVATIONS REFERENCE THE CAIRO DATUM, 0.00 FT. NGVD 29 EQUALS 20.43 FT. CAIRO DATUM.

6. IT IS TO BE UNDERSTOOD THAT WHEREVER SAND IS STIPULATED IN THE SPECIFICATIONS OR DRAWINGS, IT SHALL REFER TO PUMPED MISSISSIPPI RIVER SAND OR ANY NATURAL SAND DEPOSIT MEETING THE REQUIREMENTS OF AASHTO A-3 OR ASTM-SP.

7. THE CONTRACTOR SHALL NOTIFY THE GENERAL SUPERINTENDENT (625 ST. JOSEPH ST., N.O. LA 70165), WITH COPIES TO THE CHIEF OF ENGINEERING (8800 S. CLAIBORNE AVE., N.O., LA 70118), AND THE CHIEF OF CONSTRUCTION ADMINISTRATION AND INSPECTION (8800 S. CLAIBORNE AVE., N.O., LA 70118) OF THE S&WB IN WRITING NOT LESS THAN THREE (3), NOR MORE THAN TEN (10) DAYS IN ADVANCE OF STARTING THE PROJECT SO AS TO SCHEDULE THE INSPECTION OF ANY S&WB WORK. IF THE CONTRACTOR FAILS TO DO SO PRIOR TO STARTING HIS WORK, THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE THE BEDDING ON ALL PIPES OR ANY OTHER CONCEALED WORK PREVIOUSLY INSTALLED IN ORDER TO OBTAIN THE APPROVAL OF THE S&WB INSPECTOR. ANY WORK PERFORMED WITHOUT A S&WB INSPECTOR'S APPROVAL WILL NOT BE ACCEPTED BY THE S&WB, NOR TIED INTO THE S&WB'S DISTRIBUTION SYSTEM.

8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL EXISTING STRUCTURE INVERTS AND THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF WORK, AND SHALL BE RESPONSIBLE FOR ANY NEGLIGENCE ON HIS PART IN PROTECTING THEM. THE LOCATION OF SEWER AND WATER HOUSE CONNECTIONS CAN BE OBTAINED FROM THE S&WB.

9. ALL S&WB MAINTAINED WATER FACILITIES INSTALLED BY THE CONTRACTOR WILL BE SUBJECT TO THE APPROVAL OF THE S&WB INSPECTOR. THE CONTRACTOR SHALL PROVIDE THE S&WB INSPECTOR FULL ACCESS TO THE WORK THROUGHOUT CONSTRUCTION AND ABIDE BY ANY JUSTIFIABLE S&WB INSPECTOR'S REQUEST TO EXPOSE ANY AND ALL WORK INSTALLED BY THE CONTRACTOR.

10. BACKFILL MATERIAL FOR ALL UTILITIES SHALL BE SAND COMPACTED MECHANICALLY IN 12 IN. LIFTS. COMPACTION SHALL BE PERFORMED TO 95% MAXIMUM DRY DENSITY, NEAR OPTIMUM WATER CONTENT, AND SHALL MEET THE COMPACTION CHARACTERISTICS OF ASTM D-1557.

11. ALL REMOVED VALVES AND HYDRANTS SHALL BE RETURNED TO THE S&WB CENTRAL YARD WAREHOUSE LOCATED AT 2900 PEOPLES AVE.

12. THE INSTALLATION OF THE WATER MAINS CLOSER TO A SEWER SHALL BE DESIGNED TO BE LAID IN A SEPARATE TRENCH LOCATED ON THE ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.

II. PIPE MATERIAL

ALL PIPE, PIPE FITTING, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE MATERIAL AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN POTABLE WATER DISTRIBUTION SYSTEMS.

A. POLYVINYL CHLORIDE (PVC)

1. ALL NEW WATER MAINS 6 IN. THROUGH 12 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 "POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4 IN. THROUGH 12 IN. FOR WATER DISTRIBUTION." NEW WATER MAINS 16 IN. THROUGH 36 IN. SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C905" POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 14 IN. THROUGH 48 IN. FOR WATER TRANSMISSION AND DISTRIBUTION." PIPE SHALL BE FURNISHED IN STANDARD LENGTHS (MIN. 16 FT.) WITH INTEGRAL CAST BELLS OR COUPLINGS USING ELASTOMERIC GASKETS CONFORMING TO AWWA STANDARD C900, OR TO ASTM D3139 OR F477.

2. FOR PVC WATER LINES, ALL PIPE FITTINGS SHALL BE DUCTILE IRON AND SHALL CONFORM TO THE FOLLOWING SECTION ON "DUCTILE IRON". ALL NUTS, BOLTS AND WASHERS SHALL BE MANUFACTURED OF 304 STAINLESS STEEL.

B. DUCTILE IRON

1. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C150, "THICKNESS DESIGN OF DUCTILE-IRON PIPE" AND AWWA STANDARD C151, "DUCTILE IRON PIPE, CENTRIFUGALLY CAST, FOR WATER," SPECIAL THICKNESS CLASS 52. DUCTILE IRON PIPE FOR ABOVE GROUND EXPOSED APPLICATIONS SUCH AS CANAL CROSSINGS OR INSIDE OF AN UNDERGROUND DRAINAGE BOX CANAL SHALL BE SPECIAL THICKNESS CLASS 56. NO JOINTS WILL BE ALLOWED INSIDE THE BOX CANAL.

2. DUCTILE IRON FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C110, "DUCTILE-IRON AND GRAY-IRON FITTING FOR WATER" OR C153, "DUCTILE-IRON COMPACT FITTING", FOR WATER SERVICE, 3 IN. THROUGH 24 IN. AND 54 IN. THROUGH 64 IN.

3. ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE AN ASPHALTIC COATING IN ACCORDANCE WITH AWWA STANDARDS C151 AND C110. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE INSTALLED IN A POLYETHYLENE ENCASEMENT, 8 MILS IN THICKNESS, IN ACCORDANCE WITH AWWA STANDARD C105, "POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE SYSTEMS". THIS POLYETHYLENE ENCASEMENT SHALL COVER ALL DUCTILE IRON PIPE AND FITTINGS, INCLUDING JOINTS, AND SHALL BE OVERLAPPED A MINIMUM OF 12 IN. BETWEEN SECTIONS AND SEALED WITH BLACK POLYETHYLENE TAPE.

4. DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR, IN COMPLIANCE WITH AWWA STANDARD C104, "CEMENT-MORTAR LINING FOR DUCTILE-IRON PIPE AND FITTING FOR WATER".

5. JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR BELOW GROUND APPLICATIONS SHALL BE PUSH-ON TYPE OR MECHANICAL JOINTS WITH RUBBER GASKETS IN ACCORDANCE WITH AWWA STANDARD C111, "RUBBER GASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS". JOINTS FOR DUCTILE IRON PIPE AND FITTINGS FOR ABOVE GROUND EXPOSED APPLICATIONS, SUCH AS CANAL CROSSINGS, SHALL BE AMERICAN "FLEX-RING" OR U.S. PIPE "TR FLEX" OR APPROVED EQUAL. (U.S. PIPE " FIELD LOK 350 GASKET" AND AMERICAN "FAST-FRIP GASKET" ARE NOT ALLOWED). ANY REQUIRED DUCTILE IRON FLANGES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C115, "FLANGED DUCTILE IRON PIPE WITH DUCTILE IRON OR GRAY IRON THREADED FLANGES". STAINLESS STEEL BOLTS AND NUTS SHALL BE USED ON BOLTED FITTINGS, VALVES, SADDLES, ETC. ALL JOINTS SHALL BE RETRAINED PER MANUFACTURERS RECOMMENDATIONS.

C. OTHER MATERIALS

STEEL, FIBERGLASS REINFORCED PIPE (FRP), AND HIGH DENSITY POLYETHYLENE (HDPE) ARE MATERIALS THAT HAVE BEEN APPROVED FOR INSTALLATION WITHIN THE WATER SYSTEM. THE SPECIFICATIONS FOR THESE MATERIALS WILL BE JOB SPECIFIC.

III. WATER MAIN INSTALLATION

1. THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH FROM ALL OTHER UTILITIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN, SEWER MAIN AND THE DRAIN LINE SHALL BE 6 FT., OD TO OD, AND A MINIMUM VERTICAL SEPARATION OF 18 IN., OD TO OD, AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE FIFTY-ONE (51) PUBLIC HEALTH-SANITARY CODE PART XII WATER SUPPLIES. THE MINIMUM ALLOWABLE HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND ALL OTHER UTILITIES SHALL BE 3 FT. AND A MINIMUM VERTICAL CLEARANCE OF 6 IN. ABOVE AND 12 IN. BELOW OTHER UTILITIES. IN INSTANCES WHERE A NEW WATER MAIN IS REPLACING AN EXISTING, THE NEW MAIN MUST BE A MINIMUM OF 3 FT. FROM THE EXISTING MAIN AND THE EXISTING MAIN MUST BE KEPT IN SERVICE UNTIL THE NEW MAIN IS TIED IN. THE MINIMUM COVER FOR A WATER MAIN IS AT 3.5 FT. ALL DIMENSIONS BETWEEN UTILITIES SHALL BE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

2. THE CURVATURE OF THE WATER MAINS IN CUL-DE-SACS MAY BE ACCOMPLISHED WITH POLYETHYLENE PE 3406 OR PE 3408 TUBING MATERIAL WITH LEAD FREE BRASS FITTINGS, USUALLY A 2 IN. MINIMUM DIAMETER LINE.

3. THE INSTALLATION OF ALL PIPE SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS AND THE APPLICABLE REQUIREMENTS OF SECTION F OF THE S&WB GENERAL SPECIFICATIONS. THE TRENCH BOTTOM SHALL BE SMOOTH AND FREE FROM ROOTS, ROCKS, ETC. THE PIPE SHALL BE LAID ON A 6 IN. BED OF SAND FOR THE FULL WIDTH OF THE TRENCH AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT OR NEAR THE OPTIMUM MOISTURE CONTENT. THE SAND SHALL BE PLACED AND CONSOLIDATED UNDER THE PIPE HAUNCHES TO PROVIDE ADEQUATE SIDE SUPPORT TO THE PIPE AVOIDING DISPLACEMENT AND MISALIGNMENT. THE REMAINDER OF THE TRENCH SHALL BE FILLED WITH SAND IN 12" LIFTS AND COMPACTED TO 95% OPTIMUM DENSITY AND UP TO THE SPECIFIED GRADE AS REQUIRED BY THE S&WB GENERAL SPECIFICATIONS.

4. LUBRICANT FOR GASKETED PIPE AND FITTINGS SHALL BE SUITABLE FOR POTABLE WATER SYSTEMS AND SHALL CONFORM TO AND BE CERTIFIED BY BOTH OF THE FOLLOWING STANDARDS:
   A. ANSI/NSF 14: PLASTIC PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS.
   B. ANSI/NSF 61: DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.
   THE USE OF OLEATE-BASED LUBRICANTS IS NOT PERMITTED FOR NEW WATER MAIN INSTALLATIONS DUE TO ODOR AND TASTE TRANSFER PROBLEMS.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANLINESS OF THE MAIN UNTIL COMPLETION OF THE WORK AND FINAL ACCEPTANCE OF THE CONTRACT. AT THE END OF EACH DAY'S WORK, OR STOPPAGE OF WORK, THE CONTRACTOR MUST PROVIDE AN APPROVED TEMPORARY WATERTIGHT PLUG AT EACH OPEN END. WHEN WORK IS RESUMED, THE TRENCH MUST BE FREE OF WATER AND DIRT BEFORE THE PLUG IS REMOVED.

6. THE CONTRACTOR SHALL MAKE ALL TIE-INS AND SHALL PROVIDE ALL MATERIAL FOR TIE-INS AS SPECIFIED IN THE CONTRACT DRAWINGS. THE TIE-IN SHALL BE CONFIGURED IN SUCH A MANNER TO REQUIRE 18 LINEAR FEET OF PIPE OR LESS. THE S&WB DOES NOT ALLOW INSTALLATION OF PIPE RUNS GREATER THAN 18 LINEAR FEET WITHOUT HYDROSTATIC PRESSURE TESTING AND CHLORINATION. ALL PIPE USED IN THE TIE-IN SHALL BE THOROUGHLY CLEANED AND SWABBED WITH A 1-5 PERCENT HYPOCHLORITE DISINFECTING SOLUTION JUST PRIOR TO BEING INSTALLED, AS RECOMMENDED BY AWWA C651. TIE-INS SHALL ONLY BE MADE ONCE THE CHLORINATION PROCESS HAS BEEN APPROVED.

7. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE S&WB PRIOR TO MAKING TIE-INS, AND SHALL WORK CONTINUOUSLY UNTIL COMPLETION ON ALL TIE-INS AND WATER SERVICES ARE RESTORED. WATER SERVICES WILL NOT BE INTERRUPTED UNTIL ALL CREWS AND EQUIPMENT ARE ON SITE WITH THE CONNECTION EXPOSED, AND PREPARED TO BEGIN THE TIE-IN. IN ADDITION, THE CONTRACTOR MUST SHOW THAT THE N.O. FIRE DEPT. AND AFFECTED RESIDENTS HAVE BEEN NOTIFIED 24 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LIMIT RESIDENTIAL CLOSURES.

8. PRIOR TO THE INSTALLATION OF S&WB FACILITIES, THE ENTIRE AREA WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING THE ENTIRE WIDTH OF ANY SERVITUDE ADJACENT TO THE FRONT PROPERTY LINE, PLUS AN ADDITIONAL 3 FT. MUST BE FILLED TO THE FINISHED GRADE.

IV. METER MANHOLES, VAULTS & BOXES

1. WHERE MANHOLES OR VAULTS ARE REQUIRED WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER MANHOLE OR VAULT IN ACCORDANCE WITH THE S&WB GENERAL SPECIFICATIONS SECTION F-12. METER SIZES 1 IN. AND SMALLER SHALL BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY IN A METER BOX AS SHOWN ON S&WB DWG. NO. 7134-W. METER SIZES 1 1/2 IN. AND 2 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN MANHOLES AS SHOWN ON S&WB DWG. NO. 7332-W. METER SIZES 4 IN. TO 12 IN. INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN VAULTS AS SHOWN ON S&WB DWG. NO. 7531-W.

2. ALL MANHOLE FOUNDATION SLABS SHALL BE PLACED ON A 6 IN. LAYER OF CRUSHED STONE OR APPROVED EQUAL BEDDING MATERIAL. PRECAST VALVE MANHOLES REQUIRE APPROVAL BY SWB ENGINEERING PRIOR TO INSTALLATIONS.

3. METER BOXES SHALL BE ADJUSTED TO FINAL GRADE WITH NO SEPARATION BETWEEN THE BARREL AND LOWER METER PAN. NO ADJUSTMENT RINGS ARE ALLOWED.

V. HOUSE CONNECTIONS

1. WATER HOUSE CONNECTIONS SHALL BE INSTALLED AT THE CENTER OF EACH LOT UNLESS OTHERWISE APPROVED BY THE S&WB ENGINEER. FOR NEW CONSTRUCTION, THE LOCATION OF ALL WATER HOUSE CONNECTIONS SHALL BE IMPRINTED ON THE CURB WITH THE LETTER "W" NOT LESS THAN 3 IN. HIGH AND 1/4 IN. DEEP. SIZE OF TAP, CORPORATION COCK AND POLYETHYLENE PIPE SHALL BE 1 INCH FOR 5/8 IN. TO 1 IN. METERS AS SHOWN ON S&WB DWG. NO. 7134-W.

2. WHEN THE WATER MAIN IS LOCATED OUTSIDE OF THE ROADWAY AND SERVICE CONNECTIONS ARE REQUIRED ON THE OPPOSITE SIDE OF THE STREET, THE CONTRACTOR SHALL FURNISH AND INSTALL PVC CONDUIT PIPE (MIN. 0216 IN. WALL THICKNESS, MIN. 3 IN. DIAMETER) WITH ENDS TEMPORARILY SEALED.

3. ALL BRONZE/BRASS FITTINGS, CONNECTORS, CORPORATION STOPS AND APPURTENANCES SHALL BE OF DOMESTIC MANUFACTURE, SHALL BE MADE OF LEAD FREE BRONZE/BRASS, AND MEET ALL REQUIREMENTS OF AWWA, ASTM AND ANSI FOR USE IN THE POTABLE WATER DISTRIBUTION SYSTEMS.

4. NO DIRECT TAPPING OF THE PIPE WILL BE PERMITTED FOR MAKING HOUSE CONNECTIONS. SERVICE SADDLES SHALL BE BRONZE CLOW NO. 3407 G, J. JONES J-996, MUELLER SERIES H-13400, S90 FORD BRASS SADDLE, OR FORD FC202. THE CONTRACTOR SHALL USE ONLY SHELL TYPE HOLE CUTTERS THAT WILL RETAIN THE COUPON.

VI. METERS

1. REQUIRED METERS WILL BE FURNISHED BY THE S&WB AT NO ADDITIONAL COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONSTRUCTION OF THE METER BOX, AND METER MANHOLE OR VAULT.

2. THE METER SHALL BE INSTALLED AS RECEIVED FROM THE S&WB METER DEPARTMENT AND MAY NOT BE MODIFIED IN ANY MANNER. ANY MODIFICATIONS WILL VOID THE UL WARRANTY AND, AS SUCH, MAY SUBJECT THE OWNER TO FINANCIAL PENALTY AND LOSS OF SERVICE.

3. METERS INSTALLED ON PRIVATE PROPERTY SHALL BE INSTALLED AS SHOWN ON S&WB DWG. NO. 8353-W AND MEET THE REQUIREMENTS OF THE S&WB PLUMBING DEPARTMENT.

VII. VALVES AND HYDRANTS

1. VALVES 4 IN. TO 12 IN. INSTALLED IN THE PUBLIC RIGHT-OF-WAY SHALL BE S&WB R.D. WOOD GATE VALVES AS SHOWN IN S&WB DWG. 11897-W-62 OR AMERICAN RD ROTATING GATE DISC VALVE C 500 WITH ADJUSTABLE PACKING. VALVES 16 IN. AND LARGER SHALL BE AMERICAN R/D GATE VALVES. ALL VALVES MUST BE INSTALLED IN MANHOLES AND LOCATED AT THE PROJECTED PROPERTY LINE.

2. HYDRANTS SHALL BE 5 IN. BREAKAWAY FIRE HYDRANT BRONZE TRIM AS DETAILED IN S&WB DWG. NO. 11825-W-62, 5 1/4 IN. AMERICAN DARLING FIRE HYDRANT B-62-B, S&WB MUELLER HYDRANT A473 AS DETAILED IN MUELLER DRAWING NO. FH 285 AND K81D GUARDIAN HYDRANT AS DETAILED IN KENNEDY VALVE DRAWING NO. 80783-NOLA.

3. HYDRANT LEADS SHALL BE 6 IN. SOLID WALL PVC PIPE CLASS 150, AWWA STANDARD C-900. ALL HYDRANT LEAD JOINTS SHALL BE RETRAINED. A 6 IN. VALVE WITH VALVE BOX SHALL BE INSTALLED ON ALL HYDRANT LEADS. HYDRANTS SHALL BE INSTALLED WITH WOOD BLOCKING AND BE SPACED NOT MORE THAN 350 FT . APART, 6 FT. OFF THE PROJECTED PROPERTY LINE ON CORNER LOTS AND WITHIN 5 FT. OF THE CENTER OF THE LOT FOR INTERIOR LOTS. FOR DETAILS OF SETTING HYDRANTS, SEE S&WB DWG. NO 6179-F-2.

VIII. TESTING, CHLORINATION AND FLUSHING

1. ALL NEW MAINS, VALVES, HYDRANTS AND SERVICES SHALL BE INSTALLED PRIOR TO PRESSURE TESTING. THE SYSTEM SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE S&WB INSPECTOR AND IN ACCORDANCE WITH PARAGRAPH F-15 OF THE GENERAL SPECIFICATIONS. THE TEST SHALL BE SCHEDULED BY THE S&WB INSPECTOR. ALL AIR SHALL BE BLED FROM THE SYSTEM PRIOR TO TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED AS A RESULT OF TEST FAILURES, INCLUDING REPAIRS TO DEFECTS.

2. ALL NEW AND/OR MODIFIED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE TESTED TO 100 P.S.I. THIS PRESSURE SHALL BE MAINTAINED FOR A MINIMUM PERIOD OF TWO (2) HOURS WITH NO PRESSURE LOSS. LEAKS SHALL BE REPAIRED BY REMOVING AND REPLACING FAULTY SECTIONS. THE PRESSURE TEST SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT.

3. BEFORE BEING PLACED IN SERVICE, ALL NEW, MODIFIED AND/OR CONTAMINATED SEGMENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE FLUSHED AND DISINFECTED (CHLORINATED) BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF AND TO THE SATISFACTION OF THE S&WB ENGINEER. FLUSHING SHOULD BE DONE AT FLOW RATES SUFFICIENT TO PROVIDE A VELOCITY IN THE LINES OF AT LEAST 2.5 FEET PER SECOND. DISINFECTION SHOULD COMPLY WITH AWWA STANDARD C651, "DISINFECTING WATER MAINS". ONLY AFTER SATISFACTORY PRESSURE TESTING AND DISINFECTION (CHLORINATION) IS COMPLETED CAN THE SEGMENT BE TIED INTO THE EXISTING WATER DISTRIBUTION SYSTEM. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO MAKE A TIE-IN TO THE EXISTING WATER DISTRIBUTION SYSTEM WITHOUT DIRECT SUPERVISION OF THE ENGINEERING DEPARTMENT. ALL COSTS ASSOCIATED WITH THE TESTING, FLUSHING AND CHLORINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. THE CONTRACTOR SHALL CHLORINATE THE NEW WATER MAIN SYSTEM, INCLUDING FIRE HYDRANTS, FIRE HYDRANTS LEADS, VALVES AND SERVICE CONNECTIONS, UNDER THE DIRECT SUPERVISION OF THE S&WB, SUCH THAT THE MINIMUM CHLORINE CONCENTRATION THROUGHOUT THE SYSTEM IS 50 MG/L. THE CHLORINATED WATER SHALL BE RETAINED IN THE PIPE FOR 24 HOURS FOR WATER MAINS LESS THAN 30 INCHES IN DIAMETER, AND FOR 48 HOURS FOR WATER MAINS GREATER THAN OR EQUAL TO 30 INCHES IN DIAMETER. AFTER THE REQUIRED RETENTION TIME, THE CHLORINATED RESIDUAL SHALL BE AT LEAST 5 MG/L FREE CHLORINE, AS MEASURED BY THE S&WB. IF THE RESIDUAL IS LESS THAN 5 MG/L AT ANY POINT IN THE SYSTEM, THE INITIAL FLUSHING AND DISINFECTION PROCEDURE SHALL BE REPEATED BY THE CONTRACTOR UNTIL A 5 MG/L FREE CHLORINE RESIDUAL IS OBTAINED. THE CONTRACTOR SHALL CONTACT THE S&WB WATER PURIFICATION DEPARTMENT (504) 865-0572, A MINIMUM OF 48 HOURS PRIOR TO CHLORINATING THE NEW MAIN TO SCHEDULE THE SAMPLE COLLECTION.

5. THE NEW MAIN MUST BE CONNECTED TO THE S&WB'S SYSTEM WITHIN 72 HOURS OF NOTIFICATION OF PASSING THE CHLORINATION TEST. FAILURE TO COMPLETE THE TIE-INS WITHIN THIS TIME LIMITATION WILL RESULT IN RETESTING THE NEW MAIN AT THE EXPENSE OF THE CONTRACTOR.

IX. INSPECTION

1. ALL INSTALLATION OF WATER MAINS AND RELATED APPURTENANCES WILL BE PERFORMED UNDER THE INSPECTION OF, AND TO THE SATISFACTION OF THE S&WB INSPECTOR THROUGHOUT THE COURSE OF THE WORK.

X. FINAL ACCEPTANCE

1. THE NEW WATER MAINS AND APPURTENANCES MUST BE INSTALLED LEVEL, AT PROPER GRADE, HAVE PASSED ALL REQUIRED TESTS, AND CONNECTED TO THE EXISTING WATER SYSTEM PRIOR TO OBTAINING FINAL ACCEPTANCE.

2. BEFORE FINAL INSPECTION OF THE SYSTEM, THE CONTRACTOR SHALL SUBMIT AN "AS-BUILT" DRAWING TO THE S&WB SHOWING THE WATER LINE LOCATION AND THE LOCATION OF ALL HOUSE CONNECTIONS, IN ACCORDANCE WITH S&WB REQUIREMENTS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CERTIFY THAT THE "AS-BUILT" DRAWINGS ARE CORRECT. ANY INACCURACY AS DETERMINED BY THE S&WB IN THE "AS-BUILT" DRAWINGS SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.

3. THE CONTRACTOR MUST CONTACT THE S&WB TO SET A DATE FOR FINAL INSPECTION. IN THE EVENT THE CONTRACTOR CALLS FOR AN INSPECTION AND THE WORK IS NOT ADEQUATELY COMPLETE, A NEW INSPECTION DATE WILL THEN BE SET AT THE DISCRETION OF THE S&WB INSPECTOR.

4. FINAL ACCEPTANCE OF THE SYSTEM WILL BE SUBJECT TO A ONE (1) YEAR MAINTENANCE PERIOD.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

SPECIFICATIONS FOR INSTALLATION OF WATER MAINS

DR.	D. MC.
TRC.	
CK.	M. M.
AP.	R. S.
SCALE	NONE
DATE	10-03-19

GENERAL SUPERINTENDENT

DWG. NO. 7260-W

SHEET NO. 2

CRTKL

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Harrah's NOLA CIP

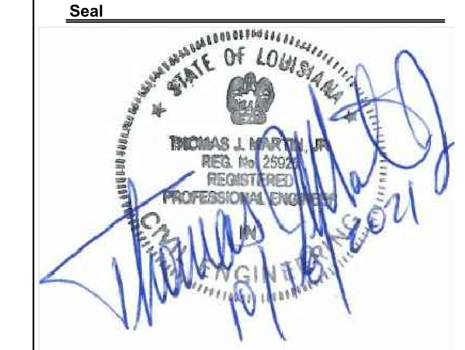
Client/Owner/Project Address

Jazz Casino Company LLC
Harrah's Casino
8 Canal Street
New Orleans, Louisiana 70130
Senior Director: Samir Mowad

Issue Drawing Log

REV #	DATE (YYYY.MM.DD)	ISSUE NAME
	2021.10.25	PODIUM - Issued for Permitting

Seal



Sheet Identification

SEWERAGE & WATER BOARD WATER NOTES (7260-W)

800-CN04

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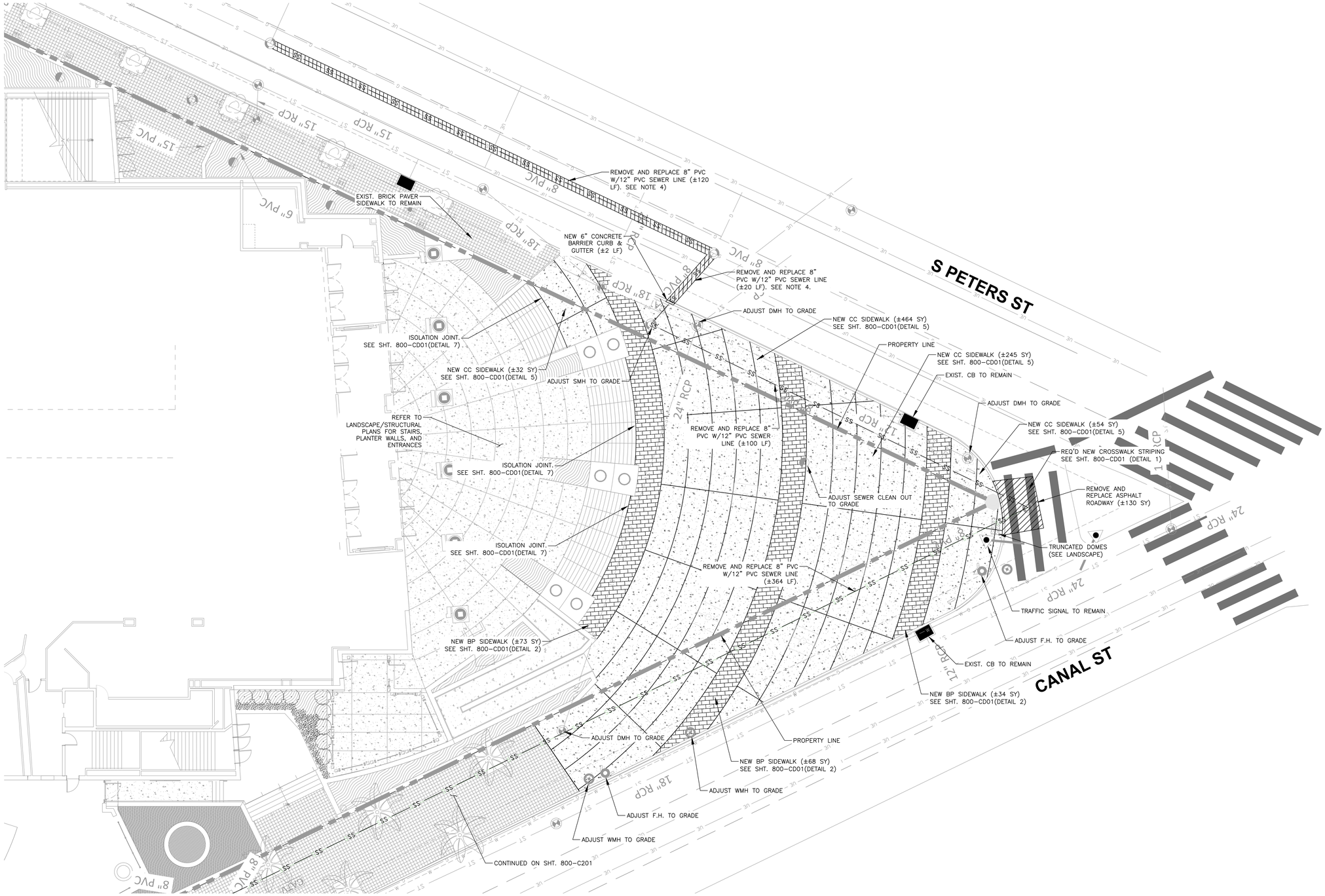


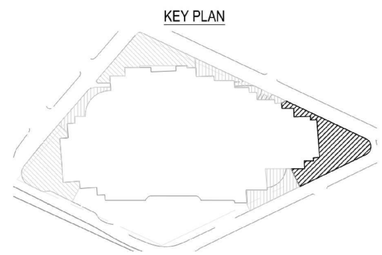
1 CIVIL SITE PLAN (CANAL ST & S. PETERS ST)

SCALE: 1" = 10'

NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. BEFORE CONSTRUCTION BEGINS.
2. ALL WATER LINES SHOWN ARE APPROXIMATE LOCATIONS
3. REFER TO LANDSCAPE FOR DEMOLITION PLANS
4. FOR TRENCH DETAILS REFER TO THE CIVIL SPECIFICATIONS APPENDIX, "S&WB STANDARD DRAWINGS" SHT. 4697-E5-A.

KEY PLAN



1 inch = 10 feet
Graphic Scale
0' 5' 10' 20'

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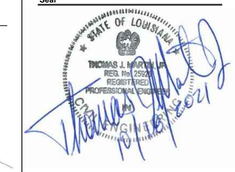
Seal



Sheet Identification

CIVIL SITE PLAN - CANAL & S. PETERS

800-C101

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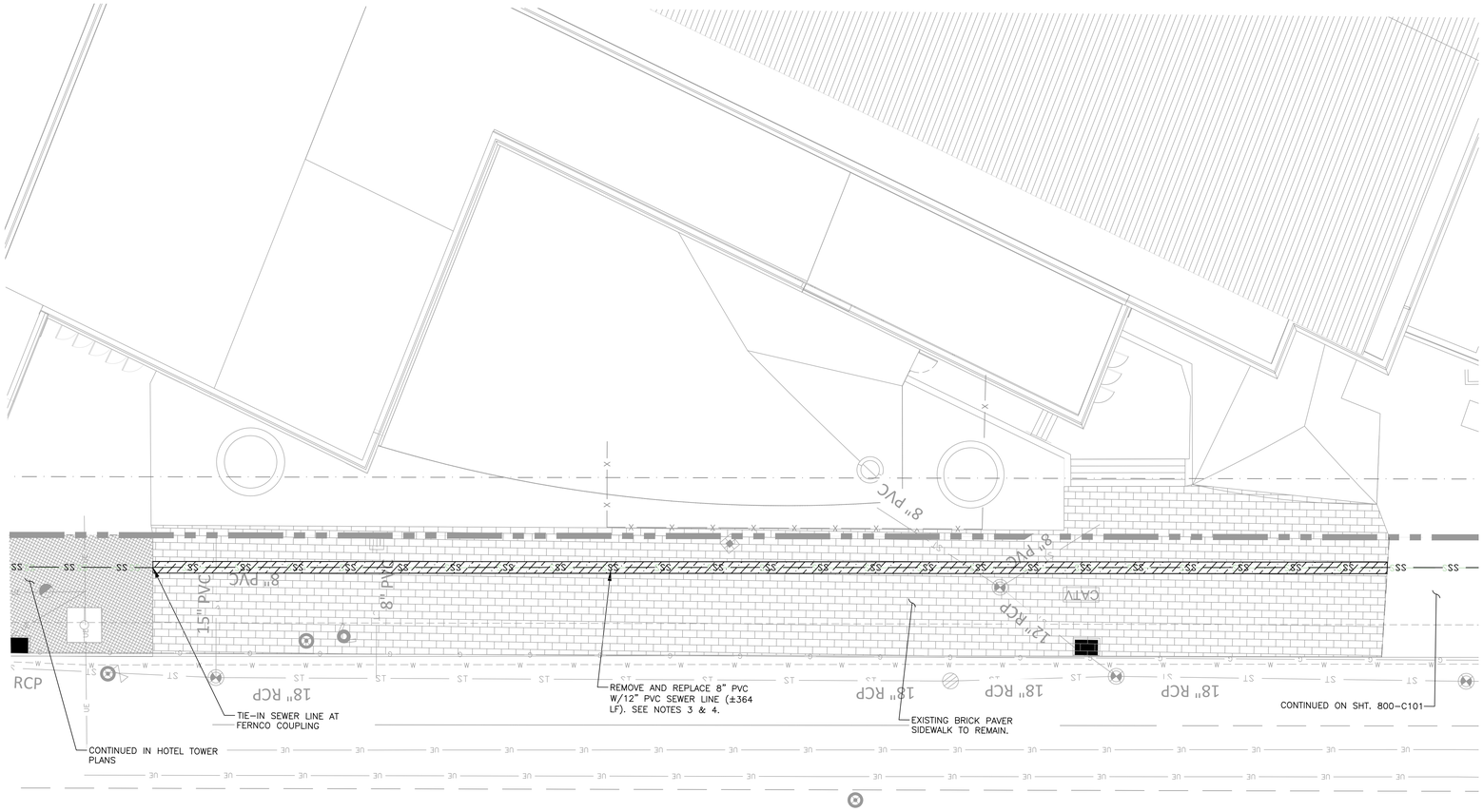


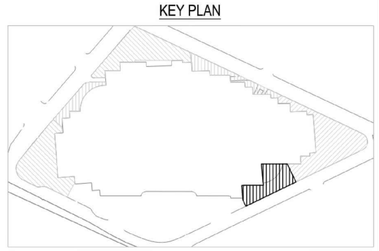
2 CIVIL SITE PLAN (CANAL ST)

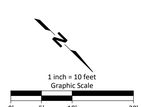
SCALE: 1" = 10'

NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. BEFORE CONSTRUCTION BEGINS.
2. ALL WATER LINES SHOWN ARE APPROXIMATE LOCATIONS
3. EXISTING PAVERS THAT ARE REMOVED IN ORDER TO INSTALL THE NEW 12" PVC SEWER LINE ARE TO BE PRESERVED AND RELAID TO MATCH THE ADJACENT EXISTING PATTERN AND GRADE. SEE LANDSCAPE.
4. FOR TRENCH DETAILS REFER TO THE CIVIL SPECIFICATIONS APPENDIX, "S&WB STANDARD DRAWINGS" SHT. 4697-E5-A.

KEY PLAN





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Harrah's NOLA CIP

Client/Owner/Project Address

Jazz Casino Company LLC
Harrah's Casino
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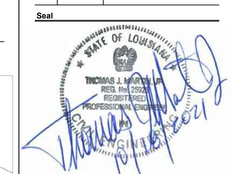
New Orleans, Louisiana 70130
Senior Director: Samir Mowad

Issue Drawing Log

REV #	DATE (YYYY.MM.DD)	ISSUE NAME
	2021.10.25	PODIUM - Issued for Permitting

Seal



Sheet Identification

CIVIL SITE PLAN - CANAL

800-C201

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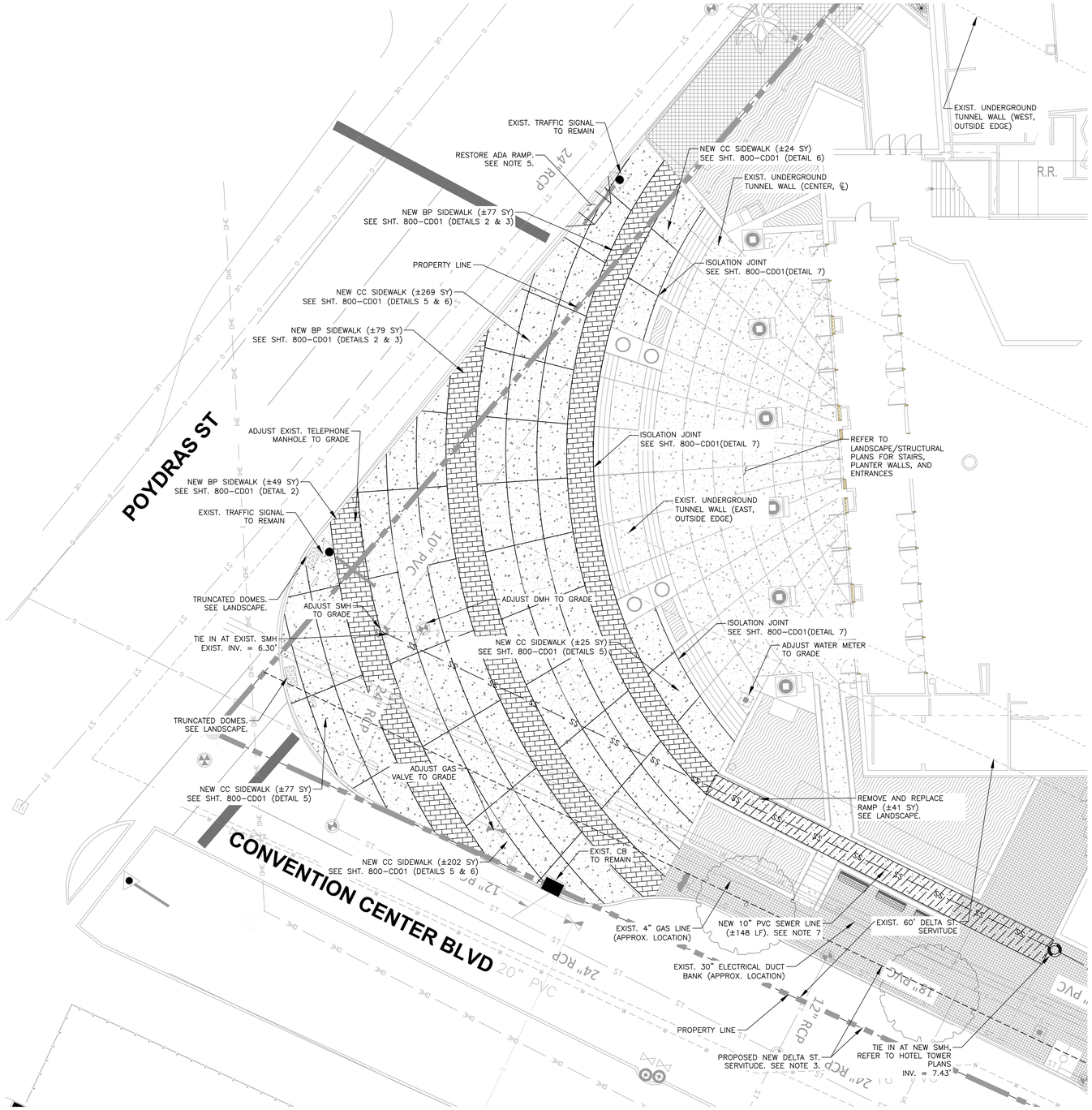


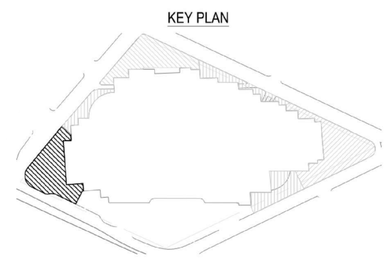
3 CIVIL SITE PLAN (POYDRAS ST & CONVENTION CENTER BLVD)

SCALE: 1" = 10'

NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. BEFORE CONSTRUCTION BEGINS.
2. ALL WATER LINES SHOWN ARE APPROXIMATE LOCATIONS
3. NEW PROPOSED SERVITUDE BOUNDARY IS 10' FROM THE CENTERLINE OF THE EXISTING 16" WATER LINE AS SHOWN. (PENDING SEWERAGE AND WATER BOARD APPROVAL.)
4. REFER TO LANDSCAPE FOR DEMOLITION PLANS
5. DPW STANDARDS FOR ADA RAMPS CAN BE FOUND AT: (https://www.nola.gov/dpw/construction-engineer-resources/)
6. ANY ROADWAY/CURB RESTORATION NECESSARY DUE TO THE EXISTING TEMPORARY DROP-OFF TO BE DONE IN ACCORDANCE WITH DPW STANDARDS. SEE LINK ABOVE.
7. FOR TRENCH DETAILS REFER TO THE CIVIL SPECIFICATIONS APPENDIX, "S&WB STANDARD DRAWINGS" SHT. 4697-E5-A.

KEY PLAN



1 inch = 10 feet
Graphic Scale
0' 5' 10' 20'

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CIVIL SITE PLAN - POYDRAS & CONVENTION CENTER

800-C301

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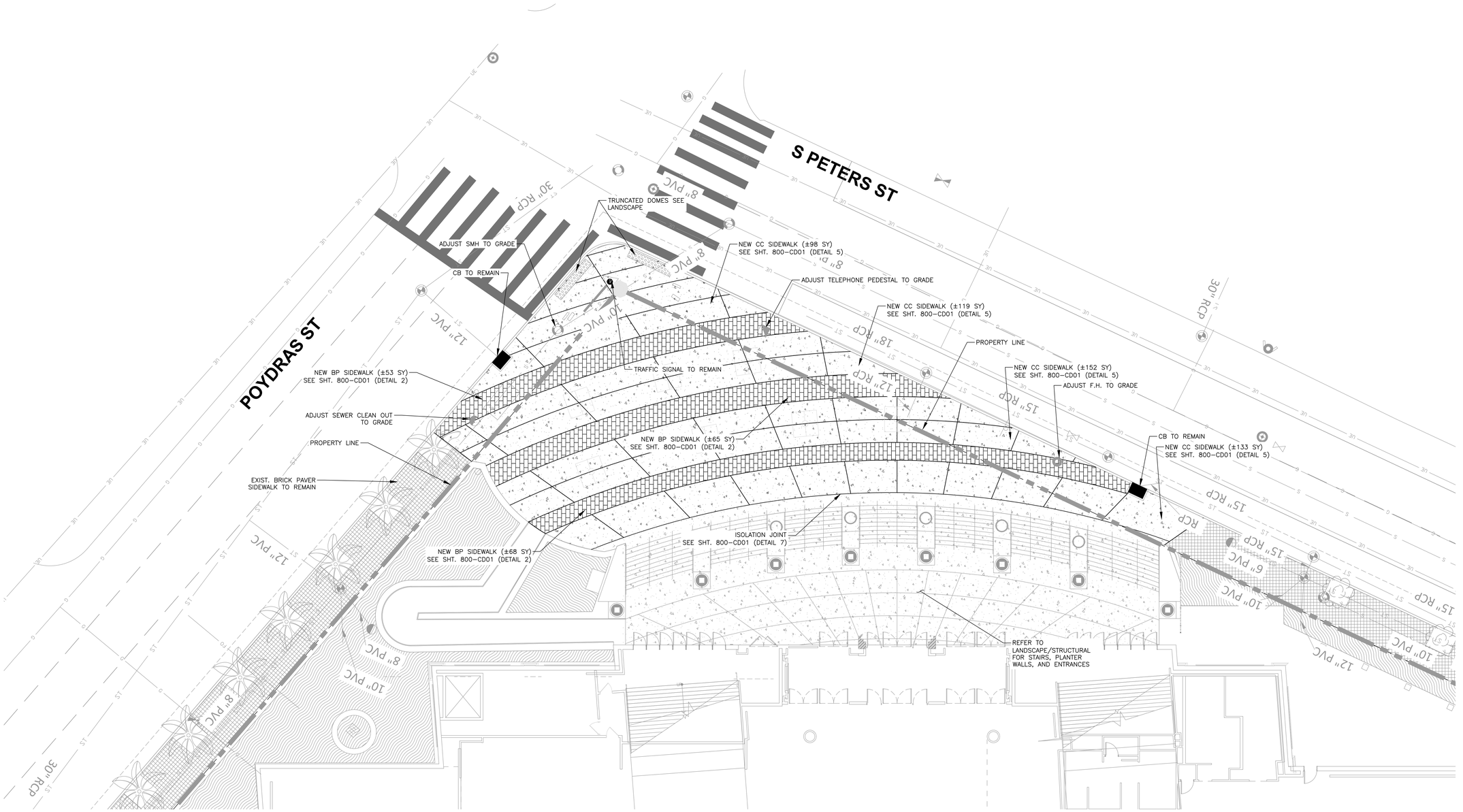
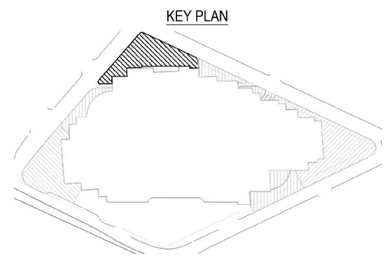


4 CIVIL SITE PLAN (POYDRAS ST & S. PETERS ST)

SCALE: 1" = 10'

NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. BEFORE CONSTRUCTION BEGINS.
2. ALL WATER LINES SHOWN ARE APPROXIMATE LOCATIONS.
3. REFER TO LANDSCAPE FOR DEMOLITION PLANS.

KEY PLAN



1 inch = 10 feet
Graphic Scale
0' 5' 10' 20'

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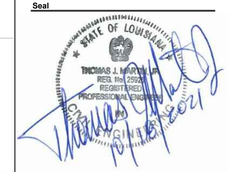
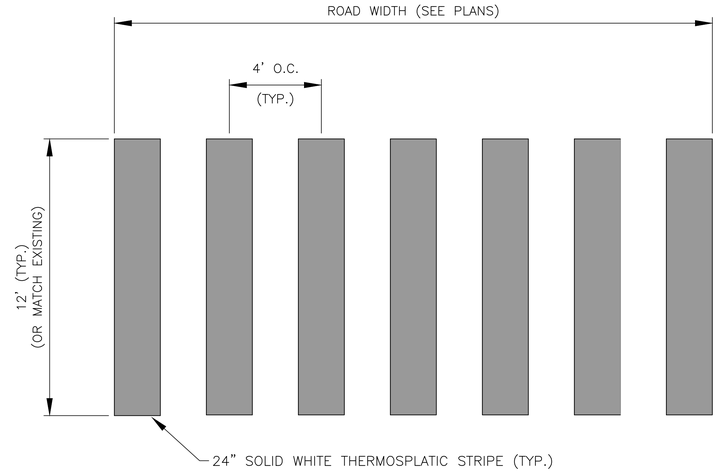


Sheet Identification

CIVIL SITE PLAN - POYDRAS & S. PETERS

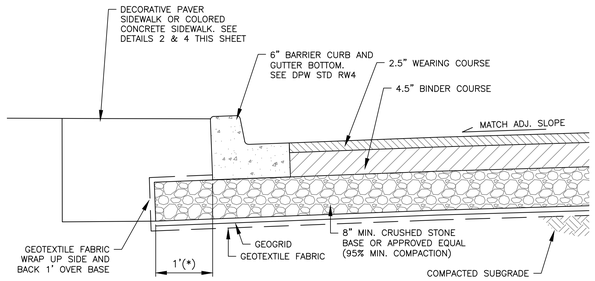
800-C401



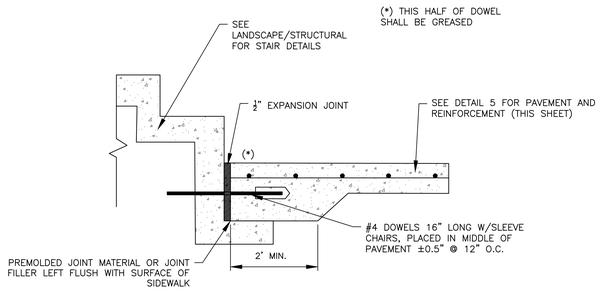
NOTES:
1. STRIPES SHALL BE SPACED SO NO STRIPE SHALL BE IN VEHICLES WHEEL PATH.
2. STRIPES SHALL BE PARALLEL WITH TRAVEL LANES.

1 / C101 CROSSWALK STRIPING
NOT TO SCALE

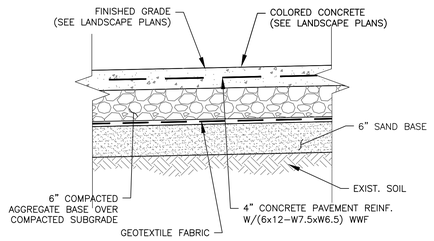
(*) DELETE 1' EXTENSION BEHIND CURBS WITHIN ALL TREES' DRIPLINE



4 / C101 ASPHALT ROADWAY DETAIL
NOT TO SCALE

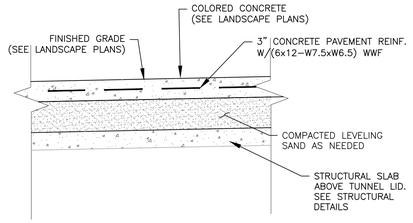


7 / - DOWELED EXPANSION JOINT BETWEEN PAVEMENT AND STAIRS
NOT TO SCALE



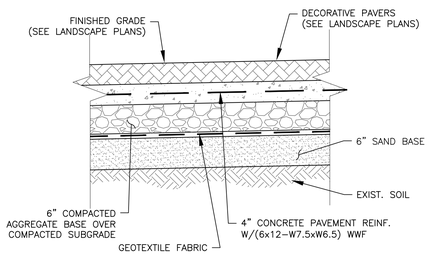
NOTES:
1. REINFORCEMENT SHALL BE PLACED IN MIDDLE OF PAVEMENT ±0.5".
2. SEE DPW #STD. 18 FOR DETAIL.

5 / - COLORED CONCRETE PAVEMENT DETAIL (OVER SOIL)
NOT TO SCALE



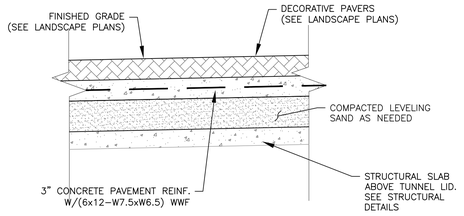
NOTES:
1. REINFORCEMENT SHALL BE PLACED IN MIDDLE OF PAVEMENT ±0.5".

6 / C301 COLORED CONCRETE PAVEMENT DETAIL (OVER TUNNEL LID)
NOT TO SCALE



NOTES:
1. REINFORCEMENT SHALL BE PLACED IN MIDDLE OF PAVEMENT ±0.5".
2. SEE DPW #STD. 18 FOR DETAIL.

2 / - 4" CONCRETE PAVEMENT W/PAVERS DETAIL (OVER SOIL)
NOT TO SCALE



NOTES:
1. REINFORCEMENT SHALL BE PLACED IN MIDDLE OF PAVEMENT ±0.5".

3 / C301 3" CONCRETE PAVEMENT W/PAVERS DETAIL (OVER TUNNEL LID)
NOT TO SCALE

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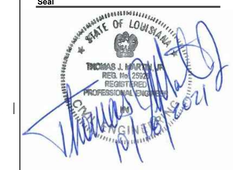

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DETAILS - CIVIL

800-CD01

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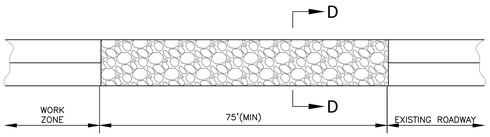
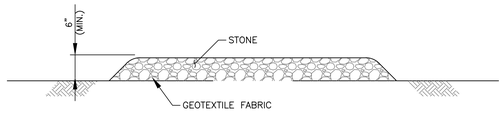


PLAN



SECTION D–D

1 TEMPORARY STONE CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTES:

TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

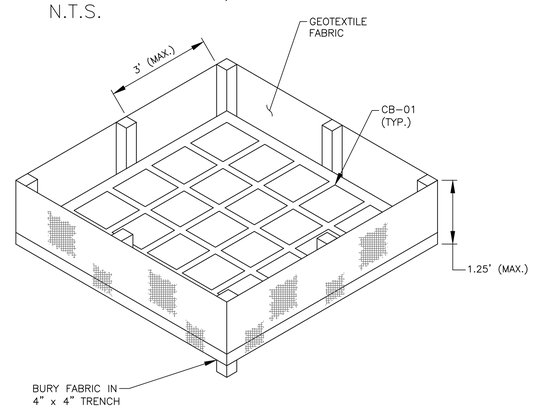
A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE CONSTRUCTION ENTRANCE AND/OR WASH RACKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
2. THE STONE SHALL CONFORM TO SECTION 711(02)(CLASS 2LB) OF THE LADOTD STANDARD SPECIFICATIONS.
3. THE LENGTH OF THE PAD MUST BE AT LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH SECTION 1019 (TYPE D); OF THE LADOTD STANDARD SPECIFICATIONS.
5. IF A WASH ROCK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF–SITE.

NOTE:

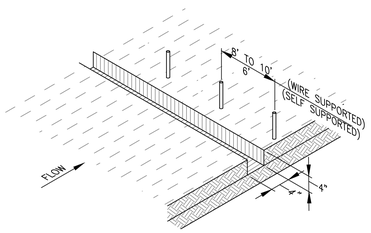
THE BMPs TO BE USED ON THIS PROJECT ARE INCLUDING BUT NOT LIMITED TO THE DETAILS SHOWN HERE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE WORK ZONE IS COMPLIANT WITH EPA REQUIREMENTS AND SPECIFICATION S–001 – "SWPPP AND BMP REQUIREMENTS."

ISOMETRIC VIEW
(BACKFILL SOIL NOT SHOWN)
N.T.S.

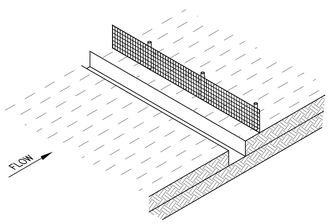


SECTION THRU TRENCH
N.T.S.

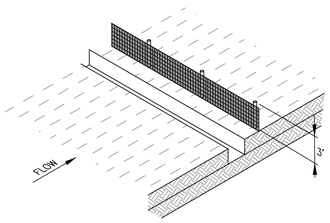
1. SET POSTS AND EXCAVATE A 4" x 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



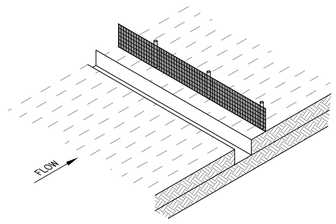
2. STAPLE WIRE FENCING TO THE POST.



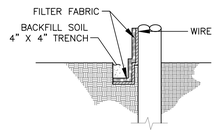
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH



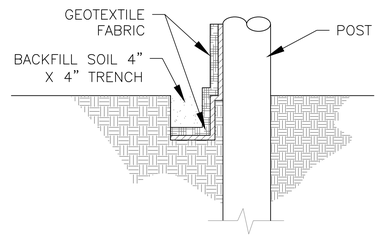
CONSTRUCTION OF TEMPORARY SILT FENCING
(WIRE SUPPORTED SILT FENCE IS SHOWN, SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURES SPECIFICATIONS.)
N.T.S.

NOTES:

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POST AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE LADOTD STANDARD SPECIFICATIONS.
A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION.
2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS ¼ ACRE PER 100 FEET OF SILT FENCING LENGTH.
3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET.
4. USE WHERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1.
5. DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND.

2 CONSTRUCTION OF TEMPORARY SILT FENCING
NOT TO SCALE



3 TEMPORARY CATCH BASIN SILT TRAP
NOT TO SCALE

NOTES:

THE TEMPORARY CATCH BASIN SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED, THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO SECTION 1019 (TYPE G) OF THE LADOTD STANDARD SPECIFICATIONS.
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" x 2" OR 2" x 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
5. HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.

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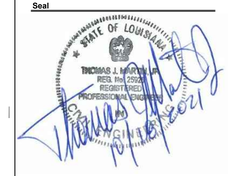

Sheet Identification

BMP DETAILS - CIVIL

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