ATTACHMENT A

Application Package

Part II

HOLLYWOOD BEACH GOLF COURSE & CLUBHOUSE

1645 POLK AVE HOLLYWOOD, FL 33020

SITE DEVELOPMENT PLANS

MILLER LEGG
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Certificates of Authorization: EB7318, LB6680, LC0337

CITY OF Hollywood FLORIDA

PARCEL No. 514215027670

LEGAL DESCRIPTION:

BLOCK 95, LESS THE NORTH 55 FEET FOR ROAD RIGHT OF WAY, LESS THE WEST 70.00 FEET FOR ROAD RIGHT OF WAY AND LESS THE SOUTH 20.00 FEET FOR ROAD RIGHT OF WAY, PLAT OF HOLLYWOOD AS RECORDED IN PLAT BOOK 1, PAGE 21 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, AND ALL OF THE NORTHWEST 1/4 WEST OF FOURTEENTH AVENUE (FORMERLY KNOWN AS EIGHTH AVENUE) AND NORTH OF POLK STREET, LESS THE NORTH 30.00 FEET, LESS THE EAST 20.00 FEET AND LESS THE SOUTH 20.00 FEET, BEING THE PARCEL OF LAND CALLED "GOLF COURSE" AS RECORDED IN HOLLYWOOD "BY THE SEA", HOLLYWOOD LAKES SECTION, PLAT BOOK 1, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID BLOCK 95, ALSO BEING A POINT ON THE WEST RIGHT-OF-WAY LINE OF NORTH SEVENTEENTH AVENUE AS RECORDED IN SAID PLAT BOOK 1, PAGE 21; THENCE DEPARTING SAID SOUTHWEST CORNER; THENCE RUN NORTH 87°47'11" EAST FOR A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, ALSO BEING A POINT ON THE EAST RIGHT-OF-WAY-LINE OF SAID NORTH SEVENTEENTH AVENUE; THENCE RUN NORTH 01°52'55" WEST ALONG THE SAID EAST RIGHT-OF-WAY LINE FOR A DISTANCE OF 1964.24 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF JOHNSON STREET AS RECORDED IN SAID PLAT BOOK 1, PAGE 21; THENCE DEPARTING SAID EAST RIGHT-OF-WAY LINE; THENCE RUN NORTH 88°11'22" EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE FOR A DISTANCE OF 2051.88 FEET; THENCE RUN NORTH 88°19'27" EAST FOR A DISTANCE OF 310.00 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF SAID NORTH FOURTEENTH AVENUE (FORMERLY KNOWN AS EIGHT AVENUE); THENCE DEPARTING SAID SOUTH RIGHT-OF-WAY LINE; THENCE RUN SOUTH 02°09'06" EAST ALONG SAID WEST RIGHT-OF-WAY LINE FOR A DISTANCE OF 1951.84 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF POLK STREET, AS RECORDED IN SAID PLAT 1, PAGE 21 AND SAID PLAT 1, PAGE 32; THENCE DEPARTING SAID WEST RIGHT-OF-WAY LINE; THENCE RUN SOUTH 87°54'23" WEST ALONG THE SAID NORTH RIGHT-OF-WAY LINE FOR A DISTANCE OF 2371.08 FEET TO THE POINT OF BEGINNING,

PROJECT DIRECTORY

OWNER/DEVELOPER:
CITY OF HOLLYWOOD
DESIGN AND CONSTRUCTION MANAGEMENT.
PO BOX 229045
HOLLYWOOD, FLORIDA 33022-9045
TEL.:(954)921-3410

CIVIL ENGINEER:
MILLER LEGG & ASSOCIATES
13680 NW 5th Street, Suite 200
SUNRISE, FLORIDA 33325
TEL.: (954) 436-7000

ARCHITECTURE & INTERIOR DESIGN:
BERMELLO AJAMIL & PARTNERS, INC
2601 SOUTH BAYSHORE DRIVE, 10th FLOOR
MIAMI, FLORIDA 33133

MEP ENGINEERING:
DELTA CONSULTING ENGINEERS, INC.
707 NE 3rd AVE. SUITE 200
FORT LAUDERDALE, FLORIDA 33304
TEL.:(954)527-1112

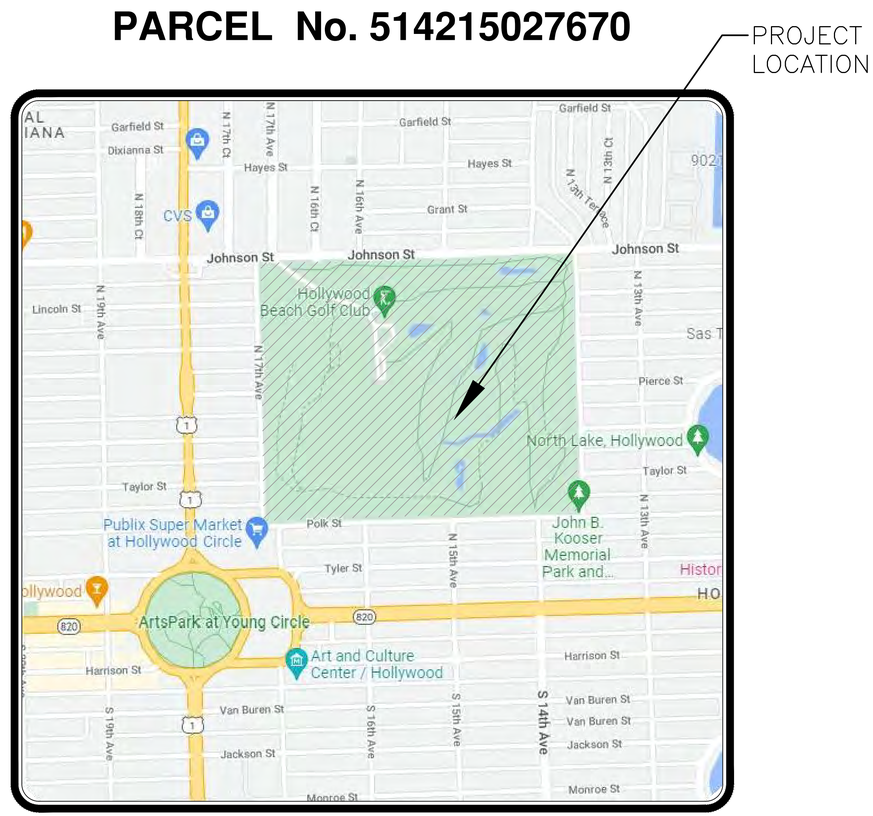
STRUCTURAL ENGINEERING:
BLISS & NYLTRAY, INC.
5835 BLUE LAGOON DRIVE. SUITE 400
MIAMI, FLORIDA 33126
TEL.:(305)442-7086

GOLF COURSE & LANDSCAPE ARCHITECTURE:
RICHARD MANDELL GOLF ARCHITECTURE
2208 MIDLAND ROAD
PINEHURST, NORTH CAROLINA 28374
TEL.:(910)255-3111

CITY:
HOLLYWOOD, FLORIDA
DESIGN AND CONSTRUCTION MANAGEMENT.
PO BOX 229045
HOLLYWOOD, FLORIDA 33022-9045
TEL.:(954)921-3410

COUNTY:
BROWARD COUNTY
201 NW 84TH AVENUE
PLANTATION, FLORIDA 33324
TEL.:(954) 831-4000

DRAINAGE DISTRICT:
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406
TEL.:(561) 686-8800



TOWNSHIP 51S – RANGE 42E – SECTION 15

LOCATION MAP
N.T.S.

SHEET INDEX

PETER J. PELLERITO, PE SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004. F.A.C.

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C0.0	COVER SHEET
C1.0	GENERAL NOTES & SPECIFICATIONS
C1.1	CIVIL LEGEND, ABBREVIATIONS, & SYMBOLS
C1.2	OVERALL KEY SHEET
C1.3	POST-DEVELOPMENT DRAINAGE BASIN MAP
C2.0	SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP
C2.1	SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP
C2.2	SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP
C2.3	SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP
C3.0	GEOMETRY, SIGNING & MARKING PLAN
C3.1	GEOMETRY, SIGNING & MARKING PLAN
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C3.3	GEOMETRY, SIGNING & MARKING PLAN
C4.0	SITE GRADING & DRAINAGE PLAN
C4.1	SITE GRADING & DRAINAGE PLAN
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C4.3	SITE GRADING & DRAINAGE PLAN
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C4.5	TYPICAL CROSS SECTIONS
C4.6	TYPICAL CROSS SECTIONS
C5.0	CLUBHOUSE GEOMETRY, SIGNING & MARKING PLAN
C5.1	CLUBHOUSE GRADING & DRAINAGE PLAN
C5.2	CLUBHOUSE UTILITY PLAN
C6.0	MAINTENANCE BUILDING GEOMETRY, SIGNING & MARKING PLAN
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C6.3	MAINTENANCE BUILDING UTILITY PLAN
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C7.0	GENERAL CONSTRUCTION DETAILS
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LS-1	GRINDER LIFT STATION DETAILS
LS-2	GRINDER LIFT STATION ELECTRICAL DETAILS

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

APPROVED : PETER J. PELLERITO, P.E.
F.L.A. REGISTRATION NO. 50063 DATE : 1/3/2024

NO.	DATE	REVISIONS	DES.	DWN.
#1	11/06/23	CITY COMMENTS		
1	03/17/2023	TAC REVISIONS		

V:\PROJECTS\2021\21-00060 – HOLLYWOOD BEACH GOLF COURSE\DRAWINGS\21-00060_CV.DWG by PPELLERI 1/3/2024 9:14:14 AM

21-00060 HOLLYWOOD BEACH GOLF COURSE & CLUBHOUSE

GENERAL NOTES

GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THE PROJECT. SAID GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, GENERAL TERMS AND CONDITIONS, AND THE SUPPLEMENTAL TERMS AND CONDITIONS, TO FULLY UNDERSTAND AND COMPLY WITH ALL THE REQUIREMENTS THEREIN. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAVE BEEN PREPARED FROM INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

1. APPLICABLE CODES

1.1. GENERAL
ALL CONSTRUCTION, MATERIALS AND TESTING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF CITY OF HOLLYWOOD, SOUTH FLORIDA WATER MANAGEMENT DISTRICT, BROWARD COUNTY, AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE. WHEN ANY OF THE GOVERNING REGULATORY AGENCY'S STANDARDS ARE IN CONFLICT, THE MORE STRINGENT OF THE TWO SHALL APPLY.

1.2. CONSTRUCTION SAFETY
ALL CONSTRUCTION SHALL BE DONE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

1.3. TRENCH SAFETY ACT
CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.

1.4. SURVEY DATA
ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS UNLESS OTHERWISE NOTED, ARE BASED ON NAVD88' (1988).

2. PRECONSTRUCTION RESPONSIBILITIES AND NOTICES

2.1. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL AT 811 CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

2.2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

2.3. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.

2.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

2.5. CONTRACTOR SHALL OBTAIN AND KEEP COPIES OF ALL REQUIRED PERMITS ONSITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR WORK PERFORMED WITHOUT PERMITS.

2.6. ADDITIONAL COORDINATION FOR UTILITY CONFLICTS, R.F.I.'S AND CONTRACT EXTENDED TIME BEYOND THE ORIGINAL SCOPE OF CONSTRUCTION DURATION (AFTER THE CONTRACTOR CONSTRUCTION NOTICE TO PROCEED) AND EXCLUDING DOCUMENTED WORKAGE STOP ORDERS ISSUED BY CLIENT TO CONTRACTOR AND CONSULTANT WILL BE BILLED TO THE CONTRACTOR VIA THE OWNER AT $135 PER HOUR.

3. INSPECTIONS

3.1. THE CONTRACTOR SHALL NOTIFY CITY OF HOLLYWOOD, THE ENGINEER OF RECORD AND BROWARD COUNTY, IF APPLICABLE, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:
3.1.1. STORM DRAINAGE
3.1.2. SANITARY SEWER
3.1.3. WATER SYSTEM
3.1.4. SUBGRADE – SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK
3.1.5. LIMEROCK BASE – SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
3.1.6. ASPHALTIC CONCRETE
3.1.7. FINAL INSPECTION

3.2. ALL INSPECTIONS SHALL BE MADE BY CITY OF HOLLYWOOD. THE ENGINEER OF RECORD WILL PROVIDE GENERAL CONSTRUCTION OBSERVATION SERVICES.

4. SHOP DRAWINGS

4.1. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY CITY OF HOLLYWOOD AND ENGINEER OF RECORD FOR SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES AND OTHER MECHANICAL/ELECTRICAL EQUIPMENT WITH ASSOCIATED STRUCTURES, INCLUDING ALL DATA. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.

4.2. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEERS' PLANS OR SPECIFICATIONS.

4.3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

5. TEMPORARY FACILITIES

5.1. TEMPORARY UTILITIES
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

5.2. TRAFFIC REGULATION
5.2.1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD.
5.2.2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
5.2.3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE ENGINEER, CITY OF HOLLYWOOD AND LOCAL OR BROWARD COUNTY AUTHORITY.
5.2.4. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAYS MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT RIGHT-OF-WAYS WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH STANDARDS FOR PROPOSED WORK WITHIN FDOT RIGHT-OF-WAYS.
5.2.5. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S ARE TO BE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION CERTIFIED.

6. PROJECT CLOSEOUT

6.1. CLEANING OUT
6.1.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN AS DIRECTED BY THE ENGINEER.
6.1.2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR CITY OF HOLLYWOOD, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL PERFORM AS REQUIRED ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK, IRRIGATION AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
6.1.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED, SATISFACTORILY DISPOSED OF DURING PROGRESS OF WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION AS DIRECTED BY THE ENGINEER.
6.1.4. CONTRACTOR SHALL DISPOSE OF ALL SITE DEMOLITION IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

6.2. PROJECT RECORD DOCUMENTS
6.2.1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
6.2.2. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES, AND ALL DRAINAGE, WATER AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER AND THE APPROVING AGENCY HAS REVIEWED THE "AS-BUILTS".
6.2.3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER AND CITY OF HOLLYWOOD PRIOR TO PLACING LIMEROCK BASE MATERIAL.
6.2.4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER AND CITY OF HOLLYWOOD PRIOR TO PLACING ASPHALT.
6.2.5. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO THE SATISFACTION OF THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
6.2.6. LAKE AS-BUILTS WILL BE CROSS SECTIONED SHOWING THE DESIGNED SECTION AS DASHED, AS-BUILT SECTION AS SOLID, AND HAVE THE TOP OF BANK REFERENCE TO THE LAKE MAINTENANCE EASEMENT. SPACING BETWEEN EACH CROSS-SECTION SHALL BE SUCH AS TO PROVIDE ENOUGH DATA TO DETERMINE IF THE LAKE WAS CONSTRUCTED AS DESIGNED.
6.2.7. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD TWO COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "RECORD DRAWING" OR "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR OR ENGINEER. FINAL AS-BUILT INFORMATION SHALL BE SUBMITTED ON AN AUTOCAD & PDF FORMAT AS DIRECTED BY THE ENGINEER.

7. DEWATERING PERMIT

7.1. DEWATERING PERMIT IS NOT AVAILABLE FOR THE SITE DEVELOPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A DEWATERING PERMIT.

8. UNSUITABLE MATERIAL REMOVAL AND DISPOSAL

8.1. CONTRACTOR IS RESPONSIBLE FOR DETERMINATION/INVESTIGATION OF SUBSURFACE CONDITIONS. ALL UNSUITABLE MATERIAL SURFACE AND SUBSURFACE WITHIN AREAS OF CONSTRUCTION IS TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. UNSUITABLE MATERIAL INCLUDES BUT IS NOT LIMITED TO: DEBRIS, ORGANICS/MUCK , AND PLASTIC MATERIAL. ALL UNSUITABLE MATERIAL REMOVED SHALL BE REPLACED WITH SUITABLE MATERIAL.

9. GEOTECHNICAL REQUIREMENTS

9.1. CONTRACTOR IS RESPONSIBLE FOR DETERMINATION/INVESTIGATION OF SUBSURFACE CONDITIONS.

10. DEMOLITION NOTES

10.1. PROPER SAFETY PRECAUTIONS SHALL BE TAKEN TO SEPARATE AREA OF DEMOLITION FROM SURROUNDING PROPERTY.

10.2. ALL ASPHALT AND CURB SHALL BE SAWCUT AT THE LIMITS OF DEMOLITION PRIOR TO REMOVAL.

10.3. ALL DEMOLITION TO BE PERFORMED IN A MANNER TO ELIMINATE HAZARDS TO PERSONS AND PROPERTY, MINIMIZE INTERFERENCE WITH USE OF ADJACENT AREAS, PROVIDE NON-DISRUPTION OF SERVICES PROVIDED BY EXISTING UTILITIES TO ADJACENT AREAS, AND TO PROVIDE FREE PASSAGE TO AND FROM ADJACENT AREAS OR STRUCTURES.

10.4. PRIOR TO AND DURING DEMOLITION, CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN.

10.5. DEBRIS RESULTING FROM DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF ON A DAILY BASIS. DISPOSAL OF DEBRIS SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL PERMITS, RULES AND/OR REGULATIONS.

10.6. HAZARDOUS MATERIALS, IF PRESENT, SHALL BE DEALT WITH IN A MANNER CONSISTENT WITH FEDERAL, STATE AND LOCAL REGULATIONS.

10.7. UPON COMPLETION OF DEMOLITION, SITE IS TO BE LEFT IN CLEAN CONDITION FREE OF DEBRIS.

10.8. CONTRACTOR TO PROVIDE PROPER SEDIMENT CONTROL AND PROTECTION OF STORM WATER STRUCTURES, BOTH WITHIN AND OUTSIDE THE LIMITS OF DEMOLITION AND P/L, TO PREVENT DEPOSIT OF SEDIMENTS CONVEYED THROUGH RUNOFF. CONTRACTOR TO CLEAN AND REMOVE SEDIMENTS FROM ALL STRUCTURES AS NEEDED.

10.9. EXISTING UTILITIES INFORMATION IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL UTILITIES SHOWN OR NOT SHOWN PRIOR TO DEMOLITION. CONTRACTOR SHALL HAVE ALL UTILITIES PROPERLY LOCATED PRIOR TO COMMENCEMENT OF DEMOLITION.

10.10. BRICK AND GROUT ANY REMAINING HOLE OPENINGS IN EXISTING STRUCTURES AFTER REMOVAL OF ANY PIPE DESIGNATED FOR REMOVAL.

11. EARTHWORK

11.3. GENERAL
11.3.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST A COPY OF THE GEOTECHNICAL ENGINEERING SOILS REPORT AND ADHERE TO THE CONDITIONS AND RECOMMENDATIONS STATED WITHIN.
11.3.2. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
11.3.3. ALL SUB-GRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
11.3.4. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
11.3.5. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.

11.4. ON-SITE
11.4.1. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL UNDER THOSE AREAS TO BE PAVED SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW FINISHED GRADE AND FOR THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING AND DISPOSED OF BY CONTRACTOR AS PART OF WORK.
11.4.2. SUITABLE BACKFILL SHALL BE MINIMUM LBR 40 MATERIAL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 THREE (3) FEET BEYOND PERIMETER OF THE PAVING.
11.4.3. ALL UNSUITABLE MATERIAL UNDER EXFILTRATION TRENCH LOCATIONS SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR AS PART OF THIS WORK.

12. STORM DRAINAGE

12.1. CONTRACTOR MAY UTILIZE ONE OF THE FOLLOWING MATERIALS (AS DIRECTED AND APPROVED BY APPROVING AUTHORITY) ON A SIZE FOR SIZE BASIS:
12.1.1. ALUMINUM
12.1.1.1. PIPE SHALL BE ALUMINUM, MANUFACTURED IN CONFORMANCE WITH ASTM B-209. METAL PIPE SHALL NOT BE ALLOWED WITHIN THE ROAD RIGHT-OF-WAY.
12.1.1.2. PIPE SHALL BE SPIRAL RIB DRAINAGE PIPE WITH 3/4" x 3/4" RIBS, APPROXIMATELY 7-1/2" ON CENTER. GAUGE THICKNESS SHALL MEET FDOT STANDARD 945-1.
12.1.1.3. PIPE COUPLING BANDS SHALL BE 12" WIDE STANDARD SPLIT BANDS OF THE SAME ALLOY AS THE PIPE AND MAY BE ONE GAUGE LIGHTER THAN THE PIPE.
12.1.1.4. POLYURETHANE OR OTHER SEALANT SHALL BE USED WITH COUPLING BANDS ON ALL NON-PERFORATED PIPE.
12.1.1.5. CONTECH ULTRA-FLO
12.1.2. REINFORCED CONCRETE (RCP)
12.1.2.1. REQUIREMENTS OF SECTION 449 OF THE FDOT STANDARD SPECIFICATIONS. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III WATER TIGHT AND CONFORM TO THE STANDARD SPECIFICATIONS
12.1.2.2. JOINTS IN RCP SHALL EMPLOY O-RING TYPE GASKETS AS SPECIFIED IN SECTION 942-1 OF FDOT STANDARD SPECIFICATIONS AND ASTM C443-98.
12.1.2.3. PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION C-478 AND 64T.
12.1.2.4. CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
12.1.2.5. REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO ASTM SPECIFICATION A-615 AND A-305, LATEST REVISION.
12.1.2.6. ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
12.1.2.7. ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATERTIGHT.
12.1.2.8. ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 CEMENT MORTAR.
12.1.2.9. ALL CONCRETE PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINT AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
12.1.3. HIGH DENSITY POLYETHYLENE PIPE (HDPE)
12.1.3.1. HIGH DENSITY POLYETHYLENE PIPE FOR STORM SEWERS SHALL CONFORM TO FDOT 948-2.
12.1.4. POLYVINYL-CHLORIDE PIPE (PVC)
12.1.4.1. POLYVINYL-CHLORIDE PIPE FOR STORM SEWERS SHALL CONFORM TO FDOT 948-1.
12.1.4.2. CONTECH A2000 PVC

12.2. CONCRETE PIPE FOR STORM DRAINAGE SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, CURRENT EDITION, SECTION 430.

12.3. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 3/4" & 2" DIAMETER, RESPECTIVELY.

12.4. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

12.5. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 (INCLUDES SWALE AREAS).

12.6. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT SCREENERS IN CATCH BASINS AND AT LOCATIONS AS DIRECTED BY THE ENGINEER UNTIL FINAL ACCEPTANCE OCCURS.

13. FDEP GENERAL WATER NOTES

13.1. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS AND METERS INSTALLED SHALL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.

13.2. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NST INTERNATIONAL STANDARD 61 AS ADOPTED IN RULE 62-555.335, F.A.C., OR OTHER APPLICABLE STANDARDS, REGULATION OR REQUIREMENTS REFERENCED IN PARAGRAPH 62-333.320(3)(B), F.A.C.

13.3. ALL PIPE AND PIPE FITTINGS INSTALLED SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C., USING BLUE AS PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, SHALL HAVE A C-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO OR APPLIED TO THE PIPEWALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES AND APPLIED TO THE PIPEWALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

13.4. NEW OR ALTERED WATER MAINS CONSTRUCTED OF POLYVINYL CHLORIDE PIPE SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, RESPECTIVELY, AS INCORPORATED INTO RULE 62-555.330, F.A.C. AND ALL OTHER NEW OR ALTERED WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600 AS INCORPORATED INTO RULE 62-333.330.

14. FDEP GENERAL SEWER NOTES

14.1. APPROPRIATE DEFLECTION TESTS ARE SPECIFIED FOR ALL FLEXIBLE PIPE. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY: 1) NO PIPE SHALL EXCEED A DEFLECTION OF 5% 2) USING A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED, AND 3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

14.2. LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT: 1) THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM; 2) EXFILTRATION OR INFILTRATION TEST BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET; AND 3) AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES.

14.3. DESIGN REQUIRES THAT A BENCH BE PROVIDED ON EACH SIDE OF ANY MANHOLE CHANNEL WHEN THE PIPE DIAMETER(S) ARE LESS THAN THE MANHOLE DIAMETER AND THAT NO LATERAL SEWER, SERVICE CONNECTION, OR DROP MANHOLE PIPE DISCHARGES ONTO THE SURFACE OF THE BENCH.

14.4. DESIGN REQUIRES: 1) MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS BE SEALED WITH NON-SHRINK MORTAR OR OTHER APPROPRIATE MATERIAL; 2) INLET AND OUTLET PIPES BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR ANOTHER WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL; AND 3) WATERTIGHT MANHOLE COVERS BE USED WHEREVER THE MANHOLE TOPS MAY BE FLOODED BY STREET RUNOFF OR HIGH WATERS.

14.5. MANHOLE INSPECTION AND TESTING FOR WATERTIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE AREA SPECIFIED. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.

14.6. SUITABLE COUPLINGS APPROVED BY THE ENGINEER AND COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIALS.

15. GENERAL WATER AND SEWER NOTES

15.1. ALL APPLICABLE PERMITS MUST BE OBTAINED AND ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.

15.2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH CITY OF HOLLYWOOD ATTENDED BY THE CONTRACTOR, ENGINEER AND OTHER INTERESTED PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

15.3. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ON THE SITE, A CURRENT SET OF APPROVED CONSTRUCTION PLANS. THE PLANS SHALL BE MADE AVAILABLE TO THE MUNICIPALITY'S ENGINEER OR HIS DESIGNEE UPON REQUEST.

15.4. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE APPROVED PLANS. APPROVAL OF PLANS BY THE MUNICIPALITY IN NO WAY IMPLIES VERIFICATION OF THE ACCURACY OF THOSE PLANS OR FEATURES DEPICTED THEREON. THE OWNER'S ENGINEER SHALL BRING TO THE ATTENTION OF THE MUNICIPALITY'S ENGINEER ANY DISCREPANCY IN, OR VARIATION FROM, THE APPROVED PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE, OR DESTRUCTION AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. ANY AND ALL CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER.

15.5. THE CONTRACTOR SHALL INFORM THE MUNICIPALITY'S ENGINEER AT LEAST 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AND/OR CONNECTING TO A MUNICIPAL FACILITY.

15.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING OF, AND PAYMENT FOR, SUCH TESTS AS MAY BE DEEMED NECESSARY BY THE OWNER'S ENGINEER OR THE MUNICIPAL ENGINEER, AND AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.

15.7. THE OWNER'S ENGINEER SHALL MAKE SUFFICIENT INSPECTIONS OF THE WORK TO ENABLE HIM TO CERTIFY THE INSTALLATION AS BEING IN CONFORMANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS.

15.8. THE OWNER'S REPRESENTATIVE WILL INFORM THE CONTRACTOR WHEN TO BACK FILL THE WORK, AND WILL WITNESS ALL PRESSURE, BACTERIOLOGICAL AND INFILTRATION/EXFILTRATION TESTS.

15.9. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE. WHERE SANITARY SEWERS OR FORCE MAINS MST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), MIN. CLASS 52 AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT ALL CROSSINGS. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

15.10. A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL SEPARATION OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

15.11. NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE MUNICIPAL ENGINEER.

15.12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE PLANS WITH ANY PAVING AND DRAINAGE PLANS IN THIS PROJECT WORK AREA.

15.13. ALL INSTALLATIONS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE IN CONFORMITY WITH THE COUNTY ENGINEERING DIVISION "MINIMUM STANDARDS".

15.14. ALL INSTALLATIONS AND TESTING OF DUCTILE IRON PIPE SHALL COMPLY WITH ANSI/AWWA C-600-99 (OR CURRENT EDITION)

15.15. MINIMUM VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND SANITARY SEWER MAINS TO COMPLY WITH RULES 62-604.400(2)(g) – (I), F.A.C. AND 62-604.400 (3), F.A.C. AS NOTED BELOW:
NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

15.16. COATINGS AND LININGS (DIP):
15.16.1. DUCTILE IRON PIPE AND FITTINGS FOR UNDERGROUND SERVICE SHALL RECEIVE AN EXTERIOR BITUMINOUS COATING OF COAL TAR VARNISH OR ASPHALT BASE PAINT, 1.0-MIL FILM THICKNESS IN ACCORDANCE WITH ANSI/AWWA A21.51/C-151.
15.16.2. EXPOSED DUCTILE IRON PIPE AND FITTINGS FOR SERVICE SHALL RECEIVE A FACTORY APPLIED EXTERIOR COATING OF UNIVERSAL RUST-INHIBITIVE PRIMER, 2.0 MILS DRY FILM THICKNESS.
15.16.3. DUCTILE IRON PIPE AND FITTINGS FOR WASTEWATER SERVICE SHALL RECEIVE A FACTORY APPLIED INTERIOR CERAMIC EPOXY COATING WITH A MINIMUM DRY THICKNESS OF 40 MILS IN ACCORDANCE WITH ANSI A21.4 PROTECTO 401 OR APPROVED EQUAL.
15.16.4. DUCTILE IRON PIPE AND FITTINGS FOR WATER AND REUSE SERVICE SHALL RECEIVE AN EXTERIOR COATING AS SPECIFIED ABOVE AND SHALL BE CEMENT MORTAR LINED AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A21.4.

15.17. WASTEWATER APPLICATIONS:
15.17.1. PVC
15.17.1.1. FOR GRAVITY SEWER ONLY SDR 26 PVC
15.17.2. DIP
15.17.2.1. PRESSURE CLASS 350 FOR 4"-24" DIAMETER PIPE
15.17.2.2. PRESSURE CLASS 250 FOR 30" OR GREATER DIAMETER PIPE
15.17.2.3. CLASS 53 FOR FLANGED APPLICATIONS

15.18. FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH AWWA STANDARD C-600 LATEST REVISION. THE COMPLETE SYSTEM SHALL BE HYDROSTATICALLY TESTED UNDER A MINIMUM CONSTANT PRESSURE OF 150 PSI, FOR A MINIMUM OF 2 HOURS. A LEAKAGE TEST SHALL BE PERFORMED AT THE ABOVE MENTIONED PRESSURE UNTIL THE LEAKAGE IS LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = \frac{SD\ P\ \hat{}1/2}{148{,}000}$$

WHERE:
L = ALLOWABLE LEAKAGE IN GPH
D = NOMINAL PIPE DIAMETER IN INCHES
S = LENGTH OF PIPE IN FEET BEING TESTED
P = AVERAGE TEST PRESSURE IN PSI

NOTE: THE SECTION OF MAIN BEING TESTED SHALL BE LIMITED TO A MAXIMUM LENGTH OF 2000'.

16. WATER SYSTEM NOTES

16.1. ALL WATER MAINS LARGER THAN 12" SHALL BE DUCTILE IRON PIPE (DIP). ALL PIPE MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
16.1.1. PVC (NOT ALLOWED)
16.1.1.1. 4" AND 6" DIA. CLASS 200, DR14
16.1.1.2. 8" AND 12" DIA. CLASS 150, DR18 ANSI/AWWA C900-07
16.1.2. DIP
16.1.2.1. 15.1.1.1. ANSI/AWWA C151/A21.51 – 02 AND CEMENT MORTAR LINED AND SEALED PER ANSI/AWWA C104/A21.4-02
16.1.2.2. PRESSURE CLASS 350 FOR 4"-24" DIAMETER PIPE
16.1.2.3. PRESSURE CLASS 250 FOR 30" OR GREATER DIAMETER PIPE
16.1.2.4. CLASS 53 FOR FLANGED APPLICATIONS

16.2. ALL DUCTILE IRON PIPE WATER MAINS SHALL BE INSTALLED WITH A MINIMUM CLEAR COVER OF 30 INCHES. ALL PVC WATER MAINS SHALL BE INSTALLED WITH MINIMUM CLEAR COVER OF 36 INCHES.

16.3. ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING AND DISINFECTING MUST COMPLY WITH THE COUNTY OFFICE MINIMUM CONSTRUCTION REQUIREMENTS.

16.4. MINIMUM CLEARANCE BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 6', AND MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 2' WHERE DEFLECTION IS REQUIRED.

16.5. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON MEETING ANSI/AWWA C-110/A21.10-03 SPECIFICATIONS, WITH 250 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C151/A21.51-02 AND C-104/A21.4-03.

16.6. MEG-A-LUG OR APPROVED EQUAL RESTRAINED JOINT CONSTRUCTION, IF APPROVED BY THE ENGINEER, SHALL BE USED TO MINIMIZE OR ELIMINATE THRUST BLOCKS.

16.7. GATE VALVES 4 INCH AND LARGER SHALL BE RESILIENT SEAT AND SHALL MEET ANSI/AWWA C-509-01 SPECIFICATIONS (LATEST REVISION). VALVES SHALL BE MUELLER OR APPROVED EQUAL.

16.8. MIN. VALVE SPACING SHALL BE AS PER SECTION 8.2 OF THE TEN STATES STANDARDS.

16.9. FIRE HYDRANTS SHALL BE AS REQUIRED BY THE MUNICIPAL AUTHORITY AND AT A MINIMUM SHALL BE TRAFFIC BREAKAWAY TYPE MUELLER CO. CENTURION MODEL NO. A-423 OR APPROVED EQUAL AND SHALL BE INSTALLED WITH THE CENTER OF THE HOSE NOZZLE 18" ABOVE FINISHED GRADE OR AS DIRECTED BY ENGINEER.

16.10. 15.10. CONTRACTOR SHALL SUBMIT REQUIRED NUMBER OF COPIES AS REQUESTED BY THE ENGINEER OF THE PROPOSED MATERIALS.
16.10.1. PIPE AND FITTINGS
16.10.2. VALVES
16.10.3. FIRE HYDRANTS
16.10.4. CURB AND CORP. STOPS
16.10.5. WATER SERVICE TUBING
16.10.6. U BRANCHES
16.10.7. WATER SERVICE CASING
16.10.8. ALL OTHERS AS REQUESTED BY THE ENGINEER OR THE OWNER.

16.11. WHEN PVC PIPE IS USED FOR WATER MAINS, A 14-GAUGE MULTISTRAND COPPER WIRE OR APPROVED EQUAL MATERIAL SHALL BE INSTALLED CONTINUOUSLY ALONG THE LENGTH OF THE PIPE. THE WIRE SHALL BE BROUGHT UP AND A MINIMUM OF FOUR FEET OF EXCESS WIRE SHALL BE COILED AT EACH VALVE. A GREEN LOCATOR (MODEL NO. 1253 AS MANUFACTURED BY AUTOMATION PRODUCTS CO.) OR APPROVED EQUAL SHALL BE INSTALLED AT EVERY WATER SERVICE.

16.12. THE COMPLETE WATER SYSTEM SHALL BE HYDROSTATICALLY TESTED UNDER A MINIMUM CONSTANT PRESSURE OF 150 PSI FOR A MINIMUM 2 HOURS TEST AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER ANSI/AWWA SPECIFICATIONS C600-05 IN ACCORDANCE WITH THE FOLLOWING LEAKAGE FORMULA:

$$L = \frac{SD\ P\ \hat{}1/2}{148{,}000}$$

WHERE:
L = ALLOWABLE LEAKAGE IN GPH
D = NOMINAL PIPE DIAMETER IN INCHES
S = LENGTH OF PIPE IN FEET BEING TESTED
P = AVERAGE TEST PRESSURE IN PSI

NOTE: THE SECTION OF MAIN BEING TESTED SHALL BE LIMITED TO A MAXIMUM LENGTH OF 2000'. NO ALLOWABLE LEAKAGE SHALL BE PERMITTED FOR FIRE HYDRANTS.

16.1. DISINFECTION OF WATER MAINS SHALL COMPLY WITH ANSI/AWWA C-651-05 STANDARD.

16.14 THE CONTRACTOR SHALL SUPPLY AND INSTALL APPROVED REFLECTIVE MARKERS IN THE STREET DRIVING LANE ADJACENT TO ALL FIRE HYDRANTS. COLOR AND LOCATION SHALL BE DIRECTED BY THE ENGINEER.

16.15. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

16.16. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320, F.A.C.

16.17. RESTRAINED JOINT PIPE SHALL BE USED FOR ALL BENDS, TEES, CROSSES, PLUGS AND FIRE HYDRANTS PER THE STANDARD DETAILS AND MUNICIPAL UTILITY REQUIREMENTS.

17. FIRE SAFETY NOTES

17.1. ALL FIRE HYDRANTS SHALL COMPLY WITH THE FOLLOWING INSTALLATION CRITERIA:
17.1.1. ALL FIRE HYDRANTS SHALL FALL WITHIN 6 FEET FROM THE EDGE OF PAVED ROAD SURFACE OR DRIVEWAY.
17.1.2. THE 4-1/2" OUTLET SHALL FACE THE ROADWAY.
17.1.3. UNOBSTRUCTED SPACE (6') SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT UNLESS OTHERWISE REQUIRED OR APPROVED BY THE FIRE CHIEF. LANDSCAPING SHALL NOT OBSCURE THE FIRE HYDRANT.
17.1.4. FIRE DEPARTMENT SHALL APPROVE ALL FIRE HYDRANT LOCATIONS.
17.1.5. REFLECTORS IN THE ROADWAY TO INDICATE FIRE HYDRANT LOCATIONS SHALL BE PROVIDED AND INSTALLED AS DIRECTED BY THE ENGINEER.
17.1.6. MINIMUM WATER FLOW REQUIRED FOR FIRE HYDRANTS SHALL BE 750 GPM OR AS REQUIRED BY THE MUNICIPAL AUTHORITY.

18. PAVING

18.17. GENERAL
18.17.1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE LIMEROCK BASE AND PRIOR TO THE PLACEMENT OF THE PAVEMENT.
18.17.2. ALL STREET CORNER PAVEMENT RADII SHALL BE 25 FEET UNLESS OTHERWISE NOTED ON THE PLANS.
18.17.3. TWO ROWS OF BAHIA SOD SHALL BE LAID ALONG CURB WITHIN TWO WEEKS OR AS DIRECTED BY THE ENGINEER OF INSTALLING FIRST LIFT OF ASPHALT.

18.18. MATERIALS
18.18.1. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 70% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM LBR OF 100.
18.18.2. SUBGRADE MATERIAL SHALL HAVE A MINIMUM LBR OF 40 AND INSTALLED AT 98% AASHTO T-180 SPECS. (INCLUDES STABILIZED ROADWAY SHOULDERS)
18.18.3. PRIME COAT AND TACK COAT SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS.
18.18.4. SURFACE COURSE SHALL BE EQUAL TO FDOT TYPE S-3 (SP9.5 EQUIVALENT) ASPHALT CONCRETE. CONTRACTOR TO SUBMIT FDOT APPROVED ASPHALT MIX SHOP DRAWINGS FOR ENGINEER'S REVIEW/APPROVAL PRIOR TO PLACEMENT OF ANY ASPHALT.

18.19. INSTALLATION
18.19.1. LIMEROCK BASE MATERIAL SHALL BE 8" THICK OR AS SHOWN AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
18.19.2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
18.19.3. ASPHALTIC CONCRETE SHALL BE AS INDICATED ON PLANS, AND PLACED IN TWO (2) LIFTS.
18.19.4. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH FDOT STANDARDS.
18.19.5. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS.

18.20. TESTING
18.20.1. ALL SUBGRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER AND/OR CITY OF HOLLYWOOD.

18.21. PAVERS
18.21.1. ALL PAVER MATERIAL, INSTALLATION AND MAINTENANCE SPECIFICATIONS SHALL MEET THE REQUIREMENTS OF CITY OF HOLLYWOOD.

19. SIGNING AND MARKING

19.1. PAVEMENT MARKINGS, REFLECTIVE PAVEMENT MARKERS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND COUNTY AND/OR CITY OF HOLLYWOOD TRAFFIC ENGINEERING DIVISION STANDARDS.

19.2. ALL PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAYS SHALL BE HOT APPLIED REFLECTORIZED THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 711.

19.3. REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS A MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 706 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.

19.4. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED DESIGN SHALL BE REMOVED. METHODS OF REMOVAL TO BE APPROVED BY COUNTY AND/OR CITY OF HOLLYWOOD TRAFFIC ENGINEERING DEPARTMENT.

19.5. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

19.6. ALL R1-1 SIGNS SHALL HAVE HIGH INTENSITY SHEETING.

19.7. ALL TEMPORARY PAVEMENT MARKINGS WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE PAINT IN ACCORDANCE WITH COUNTY AND/OR CITY OF HOLLYWOOD TRAFFIC ENGINEERING DEPARTMENT MINIMUM STANDARDS UNLESS OTHERWISE NOTED EXCEPT ON FINAL LIFT WHICH SHALL BE FOIL BACK TAPE OR PAPER TAPE.

19.8. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL UTILITY MARKINGS ONCE THE WORK IS COMPLETED. CONTRACTOR SHALL USE SPECIAL CARE WHEN REMOVING THE UTILITY MARKINGS. THE REMOVAL METHOD NEEDS TO BE SUCH THAT IT DOES NOT DAMAGE THE SURFACES OF THE EXISTING WORK ALREADY IN PLACE. IF WATER-BLASTING OLDER ASPHALT PAVEMENT, CARE NEEDS TO BE TAKEN TO NOT DISCOLOR THE ASPHALT OR POLISH THE AGGREGATE. IF THE REMOVALS ARE ON OLDER CONCRETE SURFACES, THE ENTIRE SURFACE OF A PANEL OR SECTION NEEDS TO BE BLASTED TO SHOW UNIFORM COLOR THROUGHOUT THAT SAME PANEL OR SECTION. IN ANY CASE (ASPHALT OR CONCRETE SURFACE), THE METHOD NEEDS TO BE SUCH THAT A SLICK SURFACE IS NOT LEFT BEHIND. FINAL PAYMENT TO THE CONTRACTOR MAY BE WITHHELD UNTIL THE UTILITY MARKS ARE PROPERLY REMOVED.

20. LANDSCAPE NOTES

20.1. ALL CONSTRUCTION ACTIVITY, INCLUDING TRENCHING, IS TO BE A MINIMUM OF SIX (6) FEET FROM THE BASE OF ANY TREE THAT IS DESIGNATED TO REMAIN PER CODE SECTION 27-45.

20.2. ALL TREES PLANTED IN ISLANDS CONTAINING HYDRANTS OR FDC'S MUST COMPLY WITH FLORIDA FIRE PREVENTION CODE 18.3.4.1 – CLEARANCES OF 7'-6" IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, WITH A 4' CLEARANCE TO THE REAR OF THE HYDRANT.

20.3. METERS SHALL HAVE AT LEAST 3' OF UNOBSTRUCTED ACCESS TO AND VIEW OF THE MANHOLE OR METER FROM THE PUBLIC RIGHT-OF-WAY AND AT LEAST 5' OF VERTICAL CLEARANCE ABOVE THE MANHOLE OR METER PIT.

20.4. ALL LIMEROCK AND BASE MATERIALS SHALL BE REMOVED FROM THE PLANTER AREAS/ISLANDS AND REPLACED WITH APPROPRIATE PLANTING SOIL PRIOR TO THE LANDSCAPING OF THE SITE.

20.5. THE REMOVAL OF ANY TREE ON THE SITE IS PROHIBITED WITHOUT THE REQUIRED CITY OF HOLLYWOOD PERMIT. ANY SITE WORK MUST BE DONE UNDER AN ENVIRONMENTAL PERMIT PER CITY OF HOLLYWOOD CODE OF ORDINANCES.

21. SODDING REQUIREMENTS

21.1. ALL BERMS AND SWALES ARE TO BE SODDED (SEE LANDSCAPING AND IRRIGATION PLANS)

21.2. LAKE SIDE SLOPES SHALL BE TOP SOILED AND STABILIZED THROUGH SEEDING AND PLANTING FROM 2 FEET BELOW TO 1 FOOT ABOVE THE CONTROL ELEVATION.

21.3. SOD AREAS ADJACENT TO PAVEMENT HAVING RUNOFF TO SWALES (INCLUDING ROADWAY STABILIZED SHOULDERS) SHALL BE GRADED 0.2' LOWER THAN PROPOSED EDGE OF PAVEMENT PLAN GRADES TO ALLOW FOR PLACEMENT OF SOD. PEG ALL SOD ON LAKE BANK SLOPES, SWALE SLOPES AND GROUND BETWEEN EDGE OF PAVEMENT AND SWALE AREAS IN PROPOSED SHEET FLOW AREAS.

THE STANDARD NOTES CONTAINED HEREON ARE GENERAL IN NATURE. FOR ANY CONTRADICTION BETWEEN THESE GENERAL NOTES AND THE UTILITY OWNER'S STANDARD DETAILS AND NOTES, THE UTILITY OWNER'S NOTES AND DETAILS GOVERN.

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11/16/2023

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No.:	DESCRIPTION	DATE:

SHEET NAME
GENERAL NOTES & SPECIFICATIONS

SHEET NO.
C1.0

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LINETYPE & SYMBOLS LEGEND

CLEARING & DEMOLITION LINETYPES	
—X—X—X—X—X—X—X—	EXISTING FENCE (TO BE REMOVED)
	EXISTING CURB (TO BE REMOVED)
	EXISTING WALL (TO BE REMOVED)
	EXISTING TREE LINE/SHRUBS (TO BE REMOVED)
	EXISTING WATER EDGE (TO BE REMOVED)
SWR SWR	EXISTING SANITARY SEWER LINE (TO BE REMOVED)
SSFM SSFM	EXISTING SANITARY SEWER FORCE MAIN LINE (TO BE REMOVED)
STRM STRM	EXISTING STORM DRAINAGE LINE (TO BE REMOVED)
W W W	EXISTING WATER MAIN LINE (TO BE REMOVED)
	EXISTING UTILITY LINE (TO BE ABANDONED)

PROPOSED IMPROVEMENTS LINETYPES & SYMBOLS	
	PROPOSED BASELINE
E E E	PROPOSED BURIED ELECTRIC LINE
	PROPOSED EASEMENT LINE
—X—X—X—X—X—X—X—	PROPOSED FENCE LINE
	PROPOSED GUARDRAIL
	PROPOSED LIMITS OF CONSTRUCTION LINE
PL	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	PROPOSED PROPERTY SETBACK LINE
	PROPOSED EDGE OF PAVEMENT & CURB LINE
	PROPOSED ROADWAY CENTERLINE
R/W	RIGHT OF WAY LINE
	PROPOSED TREE/LANDSCAPE LINE
SSFM SSFM	PROPOSED SANITARY SEWER FORCE MAIN LINE
SL SL SL	PROPOSED SANITARY SEWER SERVICE LATERAL LINE
SWR SWR	PROPOSED SANITARY SEWER LINE
STRM STRM	PROPOSED EXFILTRATION TRENCH LINE
STRM STRM	PROPOSED STORM DRAINAGE LINE
	PROPOSED EDGE OF WATER LINE
	PROPOSED TOP OF BANK LINE
	PROPOSED TOE OF BANK LINE
	PROPOSED WALL LINE
FIRE FIRE	PROPOSED FIRE MAIN LINE
WS WS WS	PROPOSED POTABLE WATER SERVICE LINE
W W W	PROPOSED POTABLE WATER MAIN LINE
RW RW RW	PROPOSED NON-POTABLE RECLAIMED WATER LINE
	PROPOSED AIR RELEASE VALVE
	PROPOSED VALVE
	PROPOSED PLUG WITH BLOWOFF VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED BACKFLOW PREVENTER
	PROPOSED WATER METER
	PROPOSED FIRE DEPARTMENT SIAMESE CONNECTION (FDC)
	PROPOSED DOUBLE DETECTOR CHECK VALVE (DDCV)
	PROPOSED SANITARY SEWER MANHOLE/CLEANOUT
	PROPOSED STORM DRAINAGE CATCH BASIN
	PROPOSED STORM DRAINAGE MANHOLE
	PROPOSED YARD DRAIN
	PROPOSED MITERED END SECTION
	PROPOSED FDOT TYPE 5 INLET
	PROPOSED FDOT TYPE 6 INLET
	PROPOSED FDOT TYPE 9 INLET
	PROPOSED STORMWATER POLLUTION PREVENETION SILT FENCE
	PROPOSED TURBIDITY BARRIER/CURTAIN
	PROPOSED INLET PROTECTION

EXISTING LINETYPES	
E E E	EXISTING BURIED ELECTRIC LINE
CATV CATV	EXISTING BURIED CABLE/TELEVISION LINE
COMM COMM	EXISTING BURIED COMMUNICATION LINE
FIRE FIRE	EXISTING FIRE LINE
G G G	EXISTING GAS LINE
RW RW RW	EXISTING NON-POTABLE RECLAIMED WATER LINE
OVHD OVHD	EXISTING OVERHEAD WIRE LINE
	EXISTING ABANDONED UTILITY LINE
SSFM SSFM	EXISTING SANITARY FORCE MAIN
SL SL SL	EXISTING SANITARY SEWER LATERAL
SWR SWR	EXISTING SANITARY SEWER LINE
STRM STRM	EXISTING STORM SEWER LINE
W W W	EXISTING POTABLE WATER LINE
WS WS WS	EXISTING POTABLE WATER SERVICE LINE

GENERAL ABBREVIATIONS

AC	ASBESTOS CEMENT
ALUM	ALUMINUM
ARV	AIR RELEASE VALVE
BE	BURIED ELECTRIC
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
B/L	BASELINE
BOP	BOTTOM OF PIPE
BSP	BACTERIOLOGICAL SAMPLE POINT
BT	BURIED TELEPHONE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄	CENTERLINE
CONC	CONCRETE
CV	CHECK VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EP	EXISTING PAVEMENT EDGE
EXIST	EXISTING
F&I	FURNISH & INSTALL
FDEP	FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPT. OF TRANSPORTATION
FH	FIRE HYDRANT
FM	FORCE MAIN
FPL	FLORIDA POWER & LIGHT
GE	GRATE ELEVATION
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
LAT	LATERAL
LF	LINEAR FEET

GENERAL ABBREVIATIONS

MAX	MAXIMUM
MEG	MATCH EXISTING GRADE
MES	MITERED END SECTION
MFGR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
OC	ON CENTER
OE	OVERHEAD ELECTRIC
OHW	OVERHEAD WIRE
PC	POINT OF CURVATURE
PHDPE	PERFORATED HIGH DENSITY POLYETHYLENE
⅊	PROPERTY LINE
PRB	POLLUTION RETARDANT BAFFLE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PV	PLUG VALVE
PVC	POLY VINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RE	RIM ELEVATION
RED	REDUCER
REQD	REQUIRED
RJ	RESTRAINED JOINT
R/W	RIGHT-OF-WAY
SAN SWR	SANITARY SEWER
STRM SWR	STORM SEWER
TEL	TELEPHONE
TOP	TOP OF PIPE
TYP	TYPICAL
UR	UTILITY RISER
VCP	VITRIFIED CLAY PIPE
WL	WATER LINE
WM	WATER METER

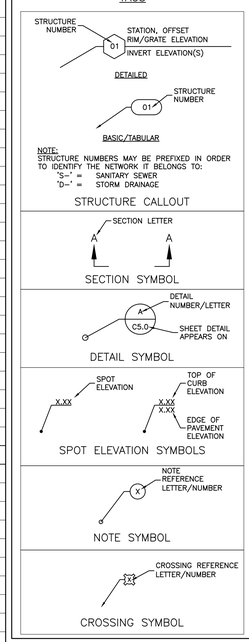
EXISTING SYMBOLS LEGEND

	SYM.	DESCRIPTION
CONTROL		AERIAL TARGET
		BENCH MARK
		CONCRETE MONUMENT
		IRON PIN
		NAIL & DISC
		IRON ROD AND CAP
		HUB AND TACK
PIPE FITTINGS		11.25° PIPE BEND
		22.5° PIPE BEND
		45° PIPE BEND
		90° PIPE BEND
		CROSS PIPE FITTING
		TEE PIPE FITTING
		WYE PIPE FITTING
		REDUCER PIPE FITTING
ELECTRICAL		ELECTRICAL MANHOLE
		ELECTRICAL OUTLET
		GROUND LIGHT
		ELECTRICAL JUNCTION BOX
		ELECTRICAL METER
		TRANSFORMER

	SYM.	DESCRIPTION
GAS / FUEL		GAS MANHOLE
		GAS VALVE
	MW	MONITORING WELL
	VP	VENT PIPE
TELE / TV	TSR	TELEPHONE RISER
		TELEPHONE MANHOLE
	CATV	CATV RISER
WATER / IRRIGATION		BACKFLOW PREVENTER
	ARV	AIR RELEASE VALVE
		FIRE HYDRANT
		SIAMESE CONNECTION
	WM	WATER METER
	WV	WATER VALVE
	DDCV	DOUBLE DETECTOR CHECK VALVE
		WELL
	IV	IRRIGATION CONTROL VALVE
	IBX	IRRIGATION CONTROL BOX
		SPRINKLER
TREES		GENERIC TREE
		OAK TREE
		PALM TREE
		MANGROVE TREE
		CITRUS TREE
		BUSH-CROTON

	SYM.	DESCRIPTION
SANITARY SEWER		CLEAN OUT
		SANITARY MANHOLE
	STP	STAND PIPE
	SV	SEWER VALVE
		GREASE TRAP MANHOLE
STORM SEWER		CATCH BASIN
		STORM MANHOLE
		YARD DRAIN
		CURB INLET
MISCELLANEOUS		BORING HOLE LOCATION
	UNK	VALVE (UNKNOWN)
		BOLLARD
		FLAG POLE
		MANHOLE (UNKNOWN)
		SATELLITE DISH
		SIGNS
		PARKING METER
		A/C UNIT
		MAILBOX
		PEDESTRIAN SIGNAL UNIT
		TRASH RECEPTICLE
		TOPOGRAPHIC ELEVATION
UTILITY POLES		GUY WIRE
		GUY POLE
		WOOD LIGHT POLE
		METAL LIGHT POLE
		CONCRETE LIGHT POLE
		CONCRETE UTILITY POLE
		METAL UTILITY POLE
		WOOD UTILITY POLE
		MAST ARM & SIGNAL SUPPORT

TAGS



HATCH PATTERN LEGEND

EXISTING HATCH PATTERNS	
	EXISTING CONCRETE PAVEMENT/SIDEWALK
	EXISTING CONCRETE PAVERS
CLEARING & DEMOLITION HATCH PATTERNS	
	EXISTING BUILDING/STRUCTURE (TO BE REMOVED)
	EXISTING ASPHALT ROADWAY/SURFACE (TO BE REMOVED)
	EXISTING CONCRETE SIDEWALK/SURFACE (TO BE REMOVED)
PROPOSED IMPROVEMENTS HATCH PATTERNS	
	PROPOSED CONCRETE PAVEMENT/SIDEWALK
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT RESTORATION
	PROPOSED CONCRETE PAVERS
	PROPOSED GREEN SPACE
	PROPOSED STORMWATER POLLUTION PREVENTION SOIL TRACKING MEASURE/ GRAVEL CONSTRUCTION ENTRANCE

SINGLE LINE PIPE FITTING LEGEND

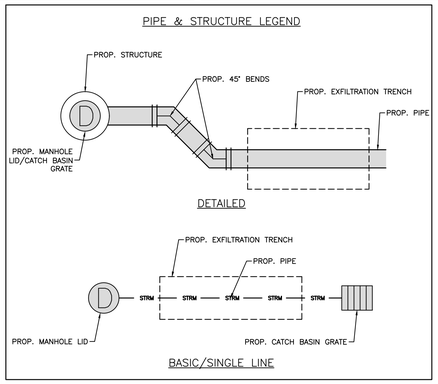
11.25° BEND		CROSS	
22.5° BEND		REDUCER	
45° BEND		TEE	
90° BEND		WYE	

LINE WEIGHTS

EXISTING	SHADED SOLID & DASHED LINES & TEXT DENOTE EXISTING EQUIPMENT, STRUCTURES AND WORK.
FUTURE	NON-SHADED DASHED LINES & TEXT DENOTE FUTURE EQUIPMENT, STRUCTURES AND WORK.
PROPOSED	NON-SHADED, BOLD, SOLID LINES & TEXT DENOTE PROPOSED EQUIPMENT, STRUCTURES AND WORK.

NOTES:
1. FOR GRAPHICAL CLARIFICATION ON PLANS CONTAINING BACKGROUND AERIAL PHOTOS, EXISTING ITEMS ARE SHOWN HOLLOW WHEREAS PROPOSED ARE SHOWN SOLID.
2. FOR GRAPHICAL CLARIFICATION THROUGHOUT THE PLAN SET, PROPOSED EQUIPMENT, STRUCTURES AND WORK NOT PERTAINING TO A SUB-SECTION OF THE SET (i.e. PAVEMENT MARKING & SIGNAGE PLAN, PAVING GRADING & DRAINAGE PLAN, UTILITY PLAN, ETC.) MAY BE SHADED IN AN EFFORT TO EMPHASIZE PROPOSED EQUIPMENT, STRUCTURES AND WORK ASSOCIATED WITH THE SUB-SECTION IN A MANNER OF DISTINCT DIFFERENTIATION FROM THAT OF EXISTING EQUIPMENT, STRUCTURES, AND UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND VERIFY EXISTING CONDITIONS, AS WELL AS MAINTAIN KNOWLEDGE AND UNDERSTANDING OF THE PROPOSED WORK SPECIFIED WITHIN THE CONSTRUCTION SET.

PIPE & STRUCTURE LEGEND



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SHEET NAME
CIVIL LEGEND, ABBREVIATIONS, & SYMBOLS

SHEET NO.
C1.1

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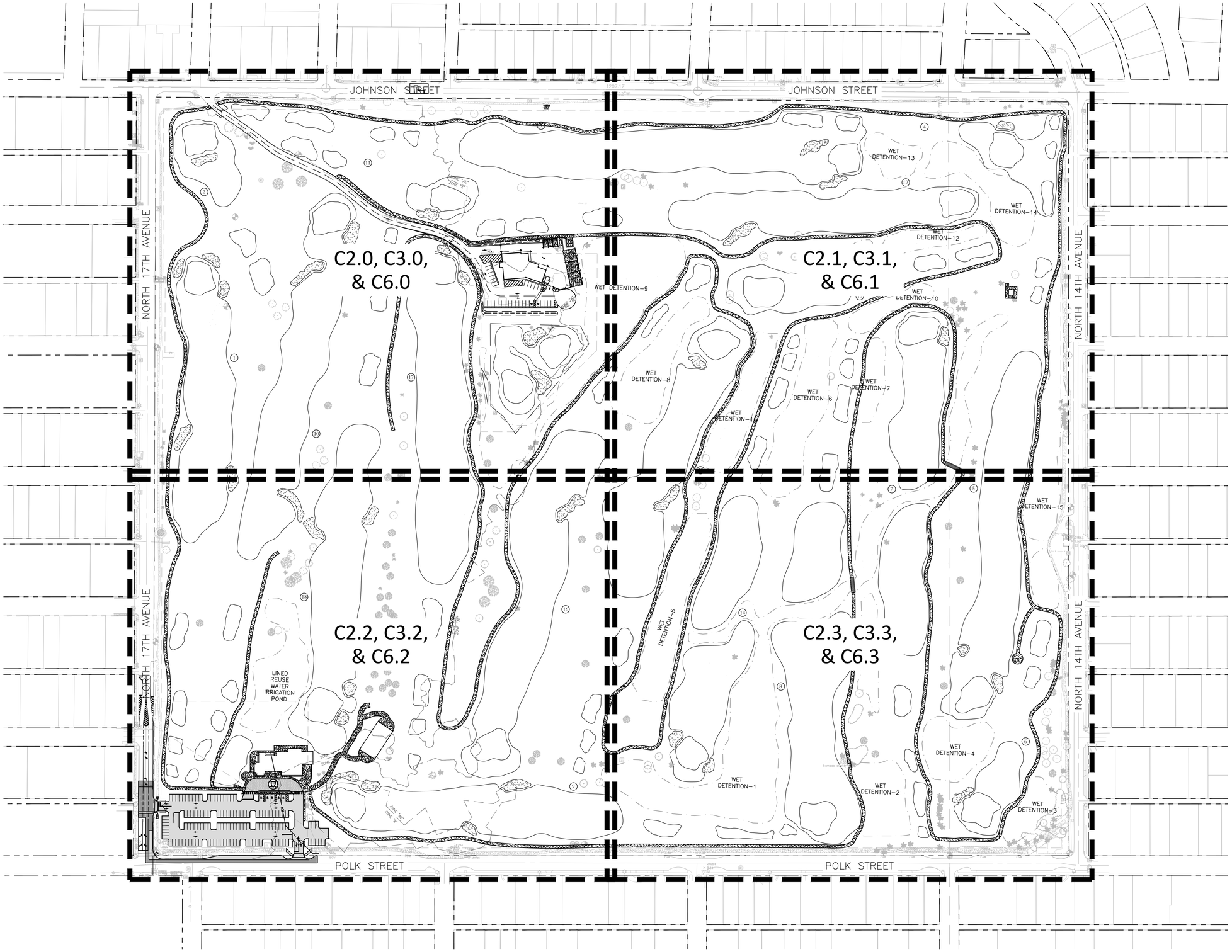

GRAPHIC SCALE
0 50 100 200
(IN FEET)
1 INCH = 100 FEET

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SHEET NAME
OVERALL KEY SHEET

SHEET NO.
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SHEET NAME
POST-DEVELOPMENT DRAINAGE BASIN MAP

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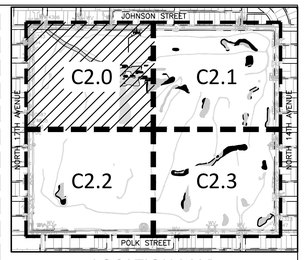
REFER TO SHEET C2.2 FOR CONTINUATION

REFER TO SHEET C2.1 FOR CONTINUATION



LOCATION MAP

SCALE: 1" = 600'

CLEARING & DEMOLITION NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
4. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF POWER LINES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY, REMOVE AND/OR RELOCATE ANY ABOVE OR BELOW GROUND STRUCTURES OR SERVICES THAT IMPACT THIS PROJECT. THIS MAY REQUIRE NEW SERVICE TIE-INS TO EXISTING SOURCES.
6. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
7. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS THAT IS SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.
8. EXCEPT IN AREAS WHERE EXISTING TREES SHALL BE PRESERVED, A MINIMUM DEPTH OF REMOVAL SHALL BE (2) FOOT BELOW SUBGRADE IN ROADWAY AREAS AND TO ORIGINAL SOILS ELSEWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.
9. WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
10. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE AND TREES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXISTANCE & LOCATION OF ALL STRUCTURES, UTILITIES & TREES SHOWN OR NOT ON THE PLANS, WHICH WOULD NEED TO BE REMOVED OR PRESERVED.
11. THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF IMPACTED OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE SERVICE PROVIDER.
12. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF AN FLORIDA REGISTERED LAND SURVEYOR).
13. ALL DISTURBED AREAS OUTSIDE THE PROJECT AREA MUST BE RESTORED PRIOR TO FINAL ACCEPTANCE.
14. CONTRACTOR TO PROVIDE A CLEAN SAWCUT LINE AT ALL EDGES OF REMOVAL FOR PAVEMENT. SIDEWALKS, GUTTER AND/OR OTHER CONCRETE SURFACES.
15. CONTRACTOR SHALL OBTAIN A COPY OF THE SITE GEOTECHNICAL REPORT AND ADHERE TO ALL REQUIREMENTS CONTAINED THEREIN.
16. CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT AND INCLUDE ALL NECESSARY SOIL WORK IN THE PROJECT BID.
17. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH LOCAL CITY/COUNTY/STATE SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONS OF SITE PERMITS.
18. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
19. ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
20. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
21. CONTRACTOR SHALL KEEP ANY AND ALL SAND, SILT OR OTHER DEBRIS FROM MOVING OFF-SITE.
22. CONTRACTOR SHALL BLOCK INTRUSION OF SAND, SILT OR OTHER DEBRIS INTO ANY DRAINAGE OR SANITARY SEWER STRUCTURE OR PIPING ON OR ADJACENT TO SITE.
23. FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR SYNTHETIC BALES, UNTIL THE LIMEROCK BASE IS FINISHED AND PRIMED.
24. NON STORMWATER DISCHARGES SUCH AS FIRE HYDRANT FLUSHING, ETC SHALL BE DISCHARGED TO EXISTING UNDERGROUND STORMWATER FACILITY.
25. ANY POTENTIALLY HAZARDOUS CHEMICALS BROUGHT ONTO THE JOB SITE WILL BE LIMITED AND KEPT IN ORIGINAL CONTAINER WITH MSDS LABEL.
26. NO SILT SHALL BE TRACKED ONTO PUBLIC ROADWAYS. ANY SILT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED BY THE END OF THE WORK DAY.
27. NON-CIVIL UTILITY LINES SUCH AS CATV, COMMUNICATIONS, ELECTRICAL, AND GAS ARE SHOWN BASED ON BEST AVAILABLE INFORMATION FOR THE CONVENIENCE OF THE CONTRACTOR. INFORMATION REGARDING THE SPECIFIC LIMITS AND PROCEDURES FOR REMOVAL AND/OR RELOCATION OF THESE UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR, THE DESIGN CONSULTANT FOR THAT UTILITY SCOPE OF WORK, AND THE APPLICABLE UTILITY COMPANY.
28. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER, AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
29. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
30. ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PROPR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
31. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
32. EXIST. POND (TO BE FILLED), REFER TO PGD PLAN.

GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO
LICENSE
No. 50063
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

SURVEY DATUM NOTE:

ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88') OBTAINED FROM THE SURVEY PERFORMED BY ALLEN & COMPANY..

NGVD–NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 – 1.509'

REFER TO TREE DISPOSITION PLAN FOR TREES TO REMAIN AND TO BE RELOCATED

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T: (954) 436-7000

FOOD & BEVERAGE:

Camacho
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T: (770) 582-1144

SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP

SHEET NO.
C2.0

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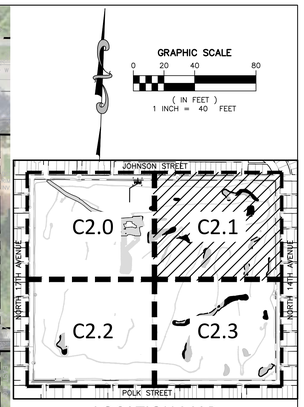
REFER TO SHEET C2.3 FOR CONTINUATION



LOCATION MAP

SCALE: 1" = 600'

CLEARING & DEMOLITION NOTES:

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SHEET NAME

SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP

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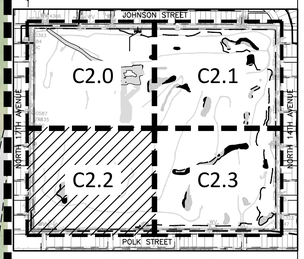

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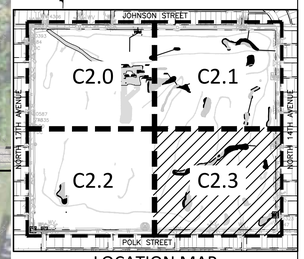

LOCATION MAP
SCALE: 1" = 600'

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

SHEET NAME
SITE CLEARING & DEMOLITION PLAN AND PRE-DEVELOPMENT BASIN MAP

SHEET NO.
C2.3

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GRAPHIC SCALE

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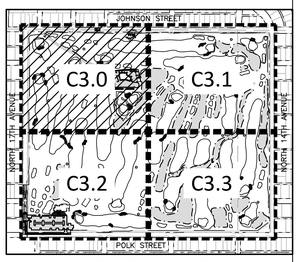

LOCATION MAP

SCALE: 1" = 600'

SIGNAGE AND MARKING NOTES:

1. ALL STOP BARS AND TRAFFIC CONTROL STRIPING SHALL BE THERMOPLASTIC. ALL OTHER STRIPING SHALL BE PAINTED UNLESS OTHERWISE SPECIFIED.
2. ALL PAINT USED FOR PAVEMENT MARKINGS SHALL CONFORM TO SECTION 971-13 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (SSRBC). ALL PAINTED MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 710 OF THE FDOT SSRBC AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PAINT MAY ONLY BE USED FOR PRIVATE DEVELOPMENT IMPROVEMENTS OR AS TEMPORARY MARKINGS.
3. THERMOPLASTIC TRAFFIC MARKINGS SHALL CONFORM TO SECTION 711-2 OF THE FDOT SSRBC. ONLY ALKYD BASED MATERIALS SHALL BE USED. THERMOPLASTIC TRAFFIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 711 OF THE FDOT SSRBC AND THE MUTCD.
4. ALL REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 706 OF THE FDOT SSRBC.
5. ALL TRAFFIC SIGNS SHALL USE TYPE XI SHEETING AND BE "STANDARD" SIZE AS ESTABLISHED IN THE MUTCD.
6. BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVELED LANE TO MARK THEIR LOCATIONS.
7. STOP BARS TO BE A MINIMUM OF 4 FEET CLEAR BEHIND CROSSWALKS EDGE OF INTERSECTING TRAVEL LANE OR DRIVE AISLE.
8. HANDICAP PARKING SPACES SHALL BE DESIGNATED BY APPROPRIATE PAVEMENT MARKINGS AND SIGNS.
9. ALL PAVEMENT MARKINGS, REFLECTIVE PAVEMENT MARKERS, THERMOPLASTIC AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL SERVICES, THE ROADWAY & TRAFFIC DESIGN STANDARDS. (F.D.O.T.).
10. ALL SIGNAGE AND PAVEMENT MARKINGS AND THEIR CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND CITY OF HOLLYWOOD TRAFFIC ENGINEERING STANDARDS (LATEST EDITION)
11. THE CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE EXISTING LANDSCAPING. IF EXISTING LANDSCAPING IS IN CONFLICT WITH PROPOSED WORK THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF SAID CONFLICT.
12. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF CITY OF HOLLYWOOD, BROWARD COUNTY, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
13. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).

SURVEY DATUM NOTE:

ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88') OBTAINED FROM THE SURVEY PERFORMED BY ALLEN & COMPANY..

NGVD-NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 - 1.509'

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS
- PROP. WATER SURFACE LAKES

GOLF CART PATH MAY BE FIELD ADJUSTED BASED PER GOLF COARSE ARCHITECT

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

CLIENT:

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Design and Construction Management
PO Box 229045
Hollywood, Florida 33022-9045
T: (954) 921-3410

GOLF COURSE & LANDSCAPE ARCHITECTURE:

Richard Mandell Golf Architecture
2208 Midland Road
Pinehurst, North Carolina 28374
T: (910) 255-3111

ARCHITECTURE & INTERIOR DESIGN:

Bermello Ajamil & Partners, Inc.
Architecture Engineering Planning
Interior Design Landscape Architecture
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MEP ENGINEERING:

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STRUCTURAL ENGINEERING:

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CIVIL ENGINEER:

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T: (954) 436-7000

FOOD & BEVERAGE:

Camacho
3103 Medlock Bridge road
Norcross, Georgia 30071
T: (770) 582-1144

SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
GEOMETRY, SIGNING & MARKING PLAN

SHEET NO.
C3.0

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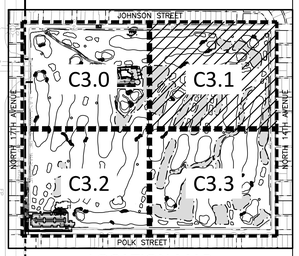
REFER TO SHEET C3.0 FOR CONTINUATION

REFER TO SHEET C3.3 FOR CONTINUATION

GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET



LOCATION MAP

SCALE: 1" = 600'

SIGNAGE AND MARKING NOTES:

1. REFER TO SHEET C1.0 & C3.0 FOR SIGNING AND MARKING ON SPECIFICATIONS.

LEGEND:

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GEOMETRY, SIGNING & MARKING PLAN

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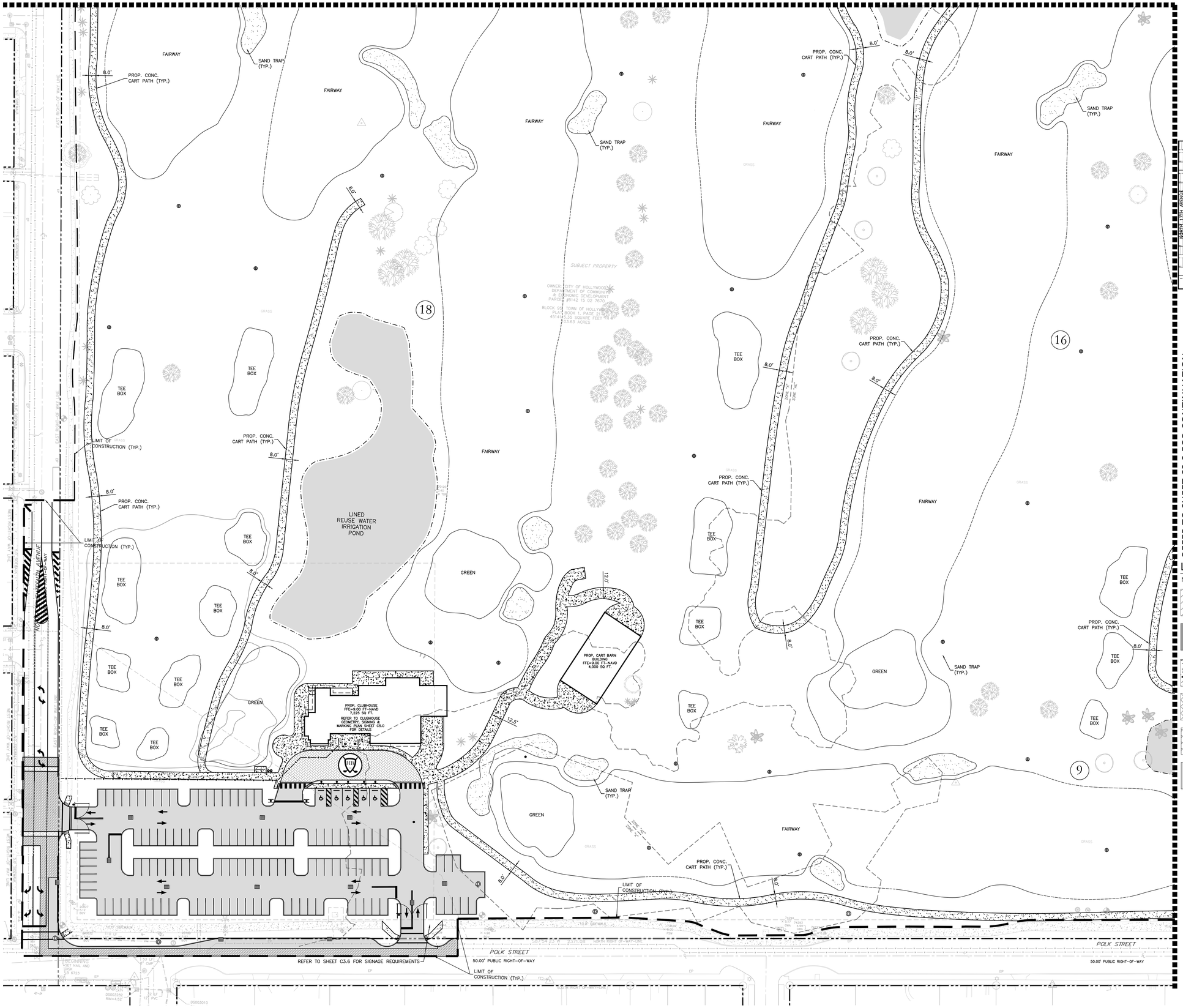

GRAPHIC SCALE
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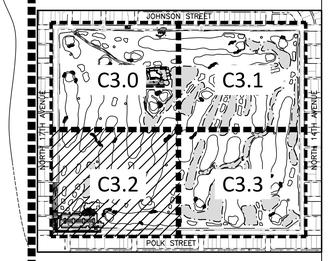

LOCATION MAP

SCALE: 1" = 600'

SIGNAGE AND MARKING NOTES:

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SHEET NAME
GEOMETRY, SIGNING & MARKING PLAN

SHEET NO.
C3.2

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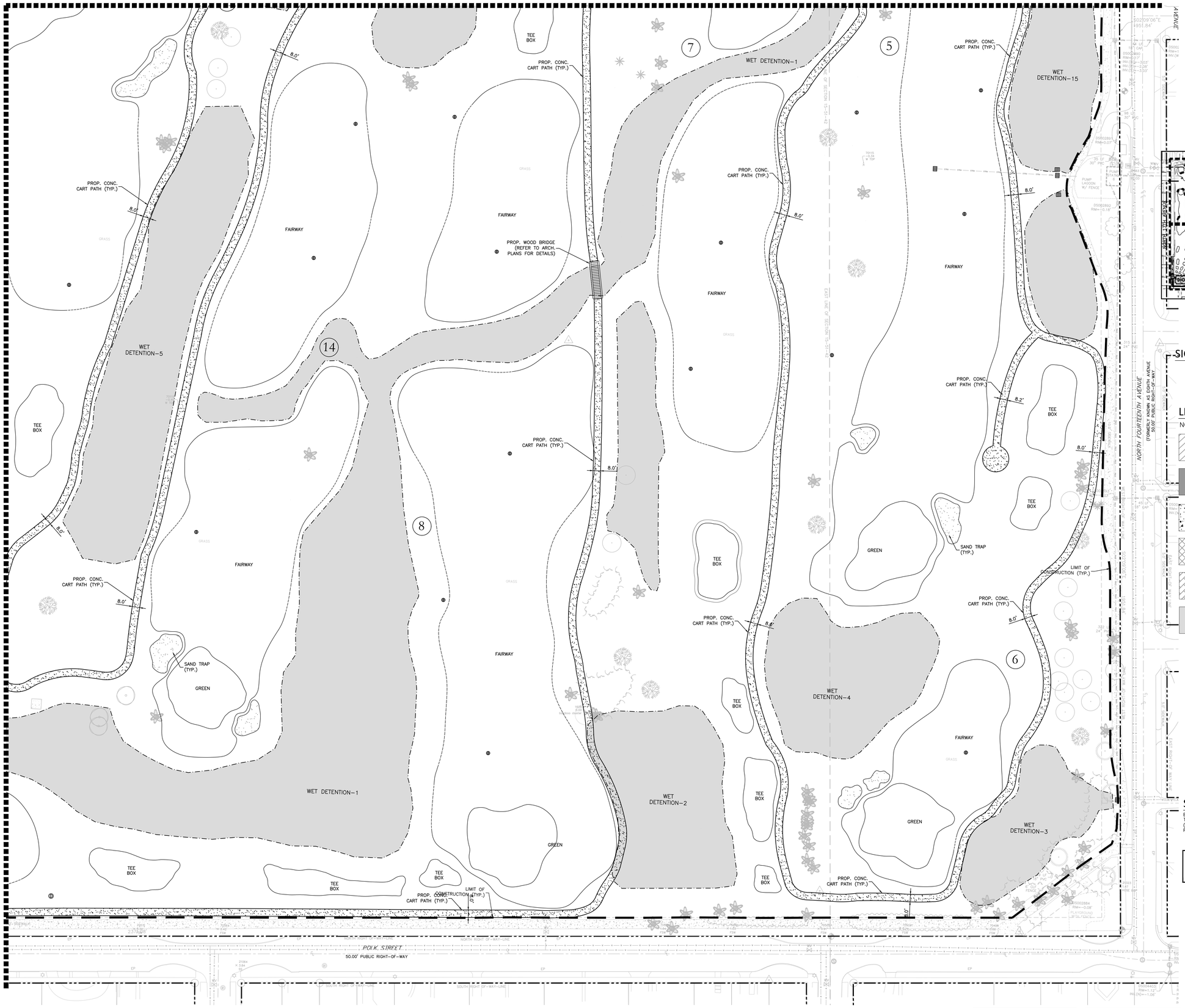
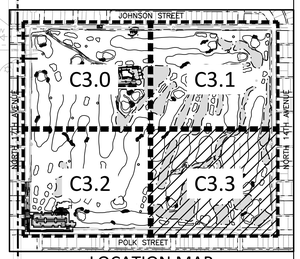
REFER TO SHEET C3.2 FOR CONTINUATION





LOCATION MAP

SCALE: 1" = 600'

SIGNAGE AND MARKING NOTES:

1. REFER TO SHEET C1.0 & C3.0 FOR SIGNING AND MARKING ON SPECIFICATIONS.

LEGEND:

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1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
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SHEET NAME
GEOMETRY, SIGNING & MARKING PLAN

SHEET NO.
C3.3

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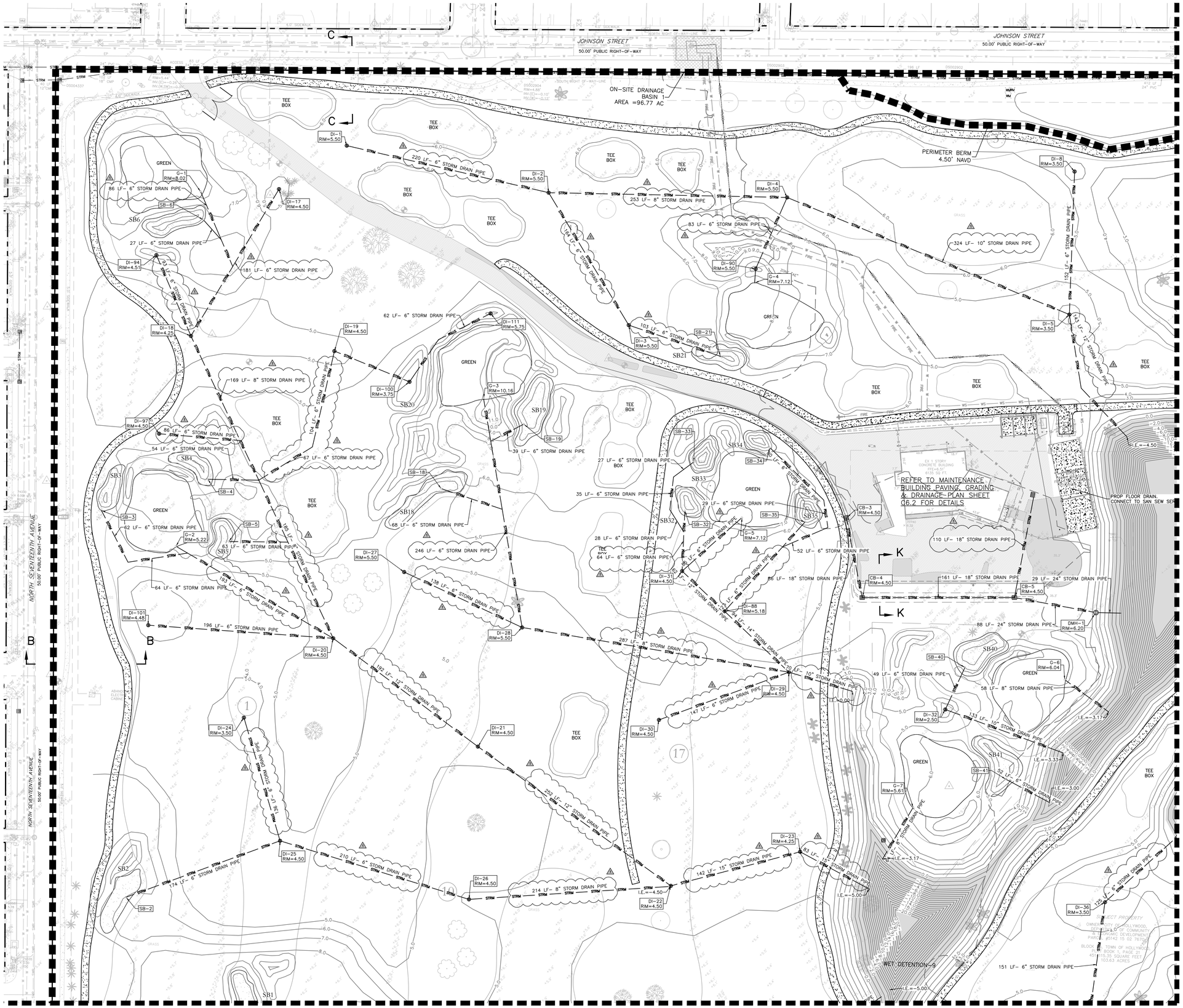

REFER TO SHEET C4.1 FOR CONTINUATION

GRAPHIC SCALE

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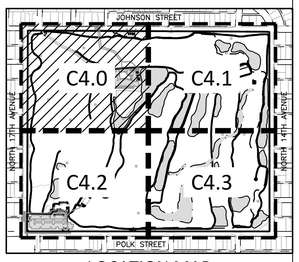
(IN FEET)
1 INCH = 40 FEET



LOCATION MAP

SCALE: 1" = 600'

GRADING & DRAINAGE NOTES:

1. ALL EARTHWORK ACTIVITIES (CUT, FILL, DREDGING, ETC.) SHALL BE PERFORMED IN ACCORDANCE TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
2. CONTRACTOR TO OBTAIN A COPY OF THE GEOTECHNICAL REPORT AND MAINTAIN IT ON-SITE AT ALL TIMES.
3. EARTHWORK ACTIVITIES SHALL BE MONITORED AND PERFORMED UNDER CLOSE SUPERVISION OF THE GEOTECHNICAL ENGINEER AND FOLLOWING THE GEOTECHNICAL REPORT RECOMMENDATIONS FOR METHODOLOGY, PROCEDURES, COMPACTION, ETC.
4. NO CONSTRUCTION ACTIVITIES (EARTHWORK, UTILITIES, TREE REMOVAL, OR GROUND DISTURBANCE) TO TAKE PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY FLORIDA INTERNATIONAL UNIVERSITY.
5. CONTRACTOR SHALL FIELD VERIFY LOCATION, INVERT, ELEVATION, MATERIALS AND PIPE SIZE BEFORE CONSTRUCTION BEGINS.
6. PROPOSED SIDEWALKS SHALL NOT EXCEED 2% ACROSS AND 5% LONGITUDINAL.
7. ALL PROPOSED GRADES AND CONTOURS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL OBTAIN A COPY OF THE SITE GEOTECHNICAL REPORT AND INCLUDE ALL NECESSARY SOIL WORK IN THE PROJECT BID.
9. CONTRACTOR TO VERIFY SLOPES ON ALL SIDEWALKS, HANDICAP ZONES, RAMPS AND DRIVEWAY CONNECTIONS FOR COMPLIANCE WITH ADA REQUIREMENTS AND/OR OPERATIONAL FUNCTIONABILITY PRIOR TO POURING FINAL CONCRETE OR ASPHALT.
10. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD AT LEAST 24 HOURS PRIOR TO POURING CONCRETE OR PLACING ASPHALT ON ALL DRIVEWAY/CURB CUT CONNECTIONS FOR ENGINEERING INSPECTIONS.
11. ALL RIGHT-OF-WAY DISTURBED BY THIS WORK SHALL BE RESTORED TO IT'S ORIGINAL CONDITION AND IN ACCORDANCE WITH APPLICABLE COUNTY CODES. ALL DISTURBED AREAS MUST BE SODDED, MATCHING EXISTING GRASS TYPE.
12. IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
13. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
14. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
15. EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON-TOXIC BITUMASTIC SEALANT.
16. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
17. CONTRACTOR SHALL ADJUST ALL EXISTING VALVES, CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.
18. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.

SURVEY DATUM NOTE:

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LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

PROP. ASPHALT MILL AND RESURFACE

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PROP. CONC. CART PATH / SIDEWALK

PROP. PAVEMENT RESTORATION

PROP. PAVERS

COORDINATE FINAL SAND BUNKER AND GREEN RIM AND INVERTS IN FIELD WITH GOLF COURSE ARCHITECT

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1	CITY COMMENTS	12/22/2023

SHEET NAME

SITE GRADING & DRAINAGE PLAN

SHEET NO.

C4.0

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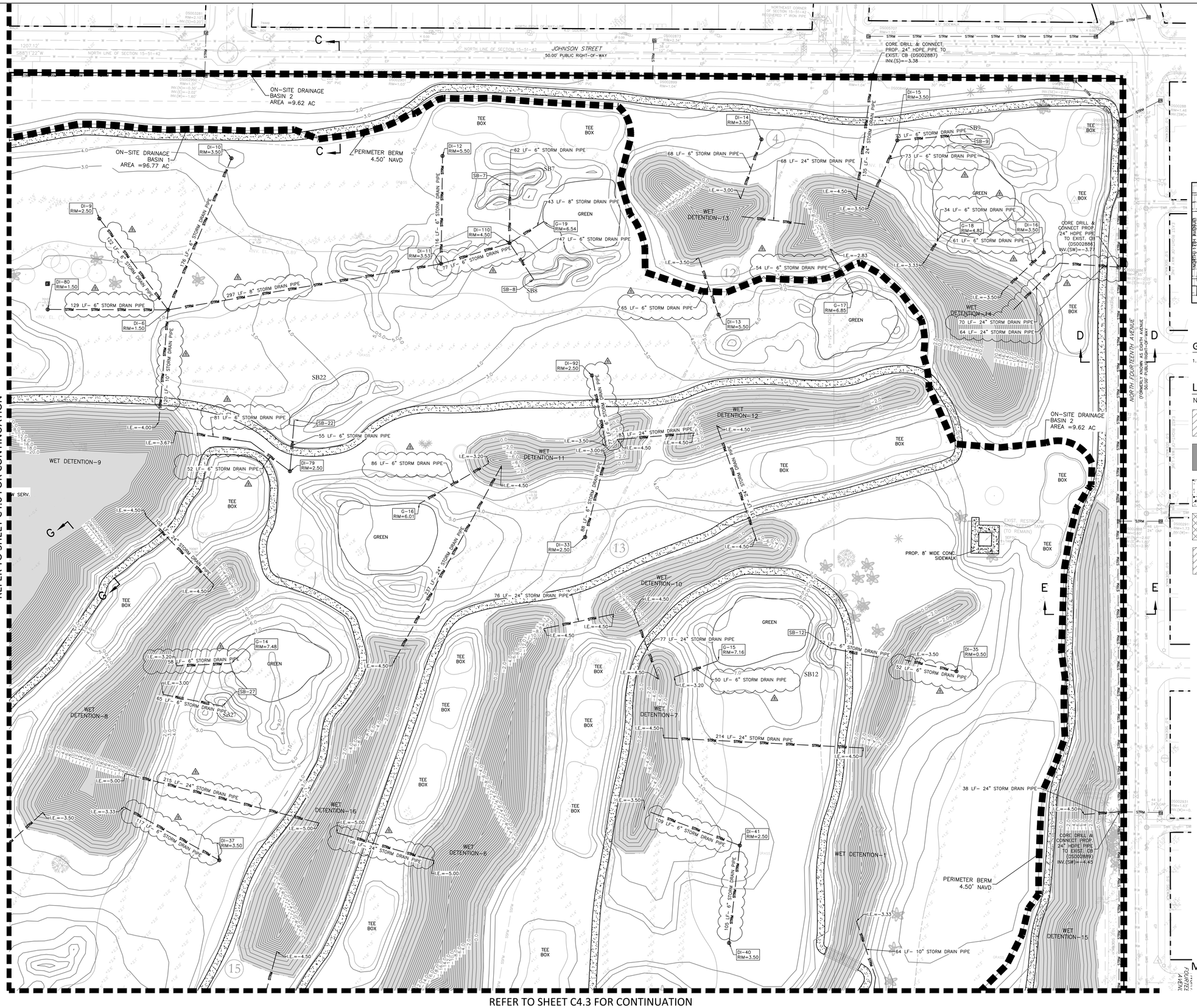

GRAPHIC SCALE

0 20 40 80

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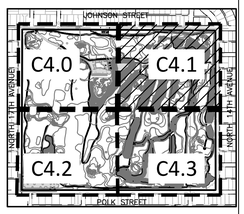

LOCATION MAP

SCALE: 1" = 750'

GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C1.0 & C4.0 FOR SITE GRADING AND DRAINAGE SPECIFICATIONS

LEGEND:

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GENERAL CONVERSION FROM "NGVD" TO "NAVD"
EQUATION: NAVD88 = NGVD29 - 1.509'

COORDINATE FINAL SAND BUNKER AND GREEN RIM AND INVERTS IN FIELD WITH GOLF COURSE ARCHITECT

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

CLIENT:

City of Hollywood
Design and Construction Management
PO Box 229045
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T: (954) 921-3410

GOLF COURSE & LANDSCAPE ARCHITECTURE:

Richard Mandell Golf Architecture
2208 Midland Road
Pinehurst, North Carolina 28374
T: (910) 255-3111

ARCHITECTURE & INTERIOR DESIGN:

Bermello Ajamil & Partners, Inc.
Architecture Engineering Planning
Interior Design Landscape Architecture
2601 South Bayshore Drive, 10th Floor
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MEP ENGINEERING:

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707 NE 3rd Ave. Suite. 200
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STRUCTURAL ENGINEERING:

Bliss & Nyitray, Inc.
5835 Blue Lagoon Drive, Suite 400
Miami, FL 33126
T: (305) 442-7086

CIVIL ENGINEER:

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13680 N.W. 5th Street, Suite 200
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T: (954) 436-7000

FOOD & BEVERAGE:

Camacho
3103 Medlock Bridge road
Norcross, Georgia 30071
T: (770) 582-1144

SEAL:

PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:
1	CITY COMMENTS	12/22/2023

SHEET NAME
SITE GRADING & DRAINAGE PLAN

SHEET NO.
C4.1

NOTE: GC IS RESPONSIBLE TO **SHARE & COORDINATE COMPLETE SET WITH ALL SUBCONSULATANTS**.

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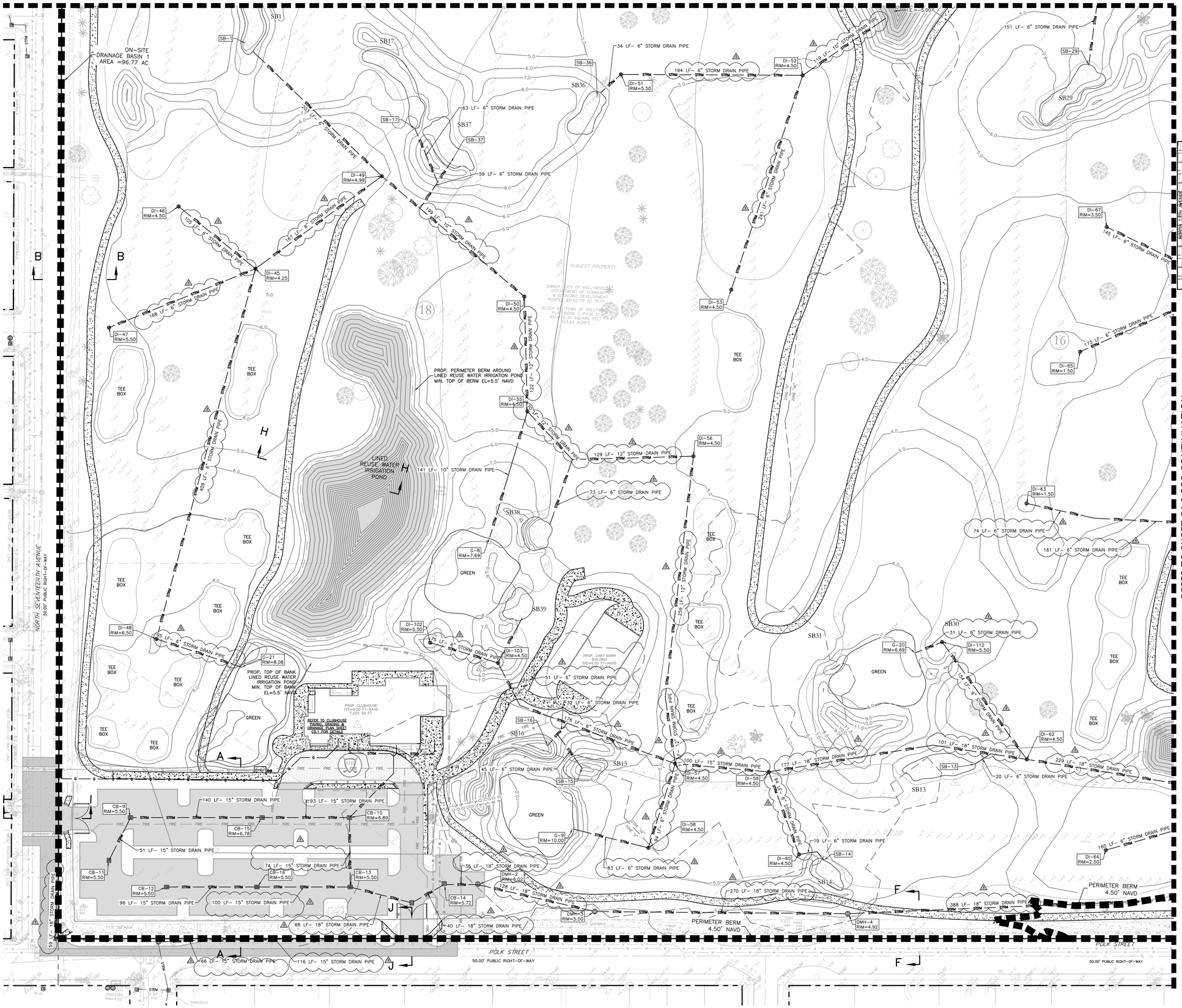
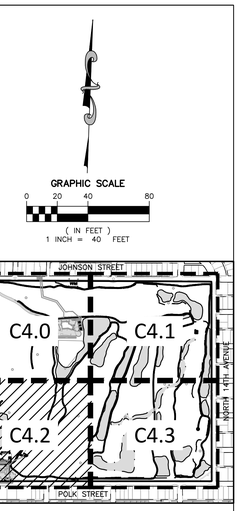
REFER TO SHEET C4.0 FOR CONTINUATION





LOCATION MAP

SCALE: 1" = 600'

GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C1.0 & C4.0 FOR SITE GRADING AND DRAINAGE SPECIFICATIONS

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

REFER TO SHEET C4.3 FOR CONTINUATION

SURVEY DATUM NOTE:

ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88') OBTAINED FROM THE SURVEY PERFORMED BY ALLEN & COMPANY..

NGVD–NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 – 1.509'

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FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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PROJECT NAME:
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PROJECT ADDRESS:
1645 Polk Street
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PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:
1	CITY COMMENTS	12/22/2023

SHEET NAME
SITE GRADING & DRAINAGE PLAN

SHEET NO.
C4.2

NOTE: GC IS RESPONSIBLE TO **SHARE & COORDINATE COMPLETE SET WITH ALL SUBCONSULATANTS**.

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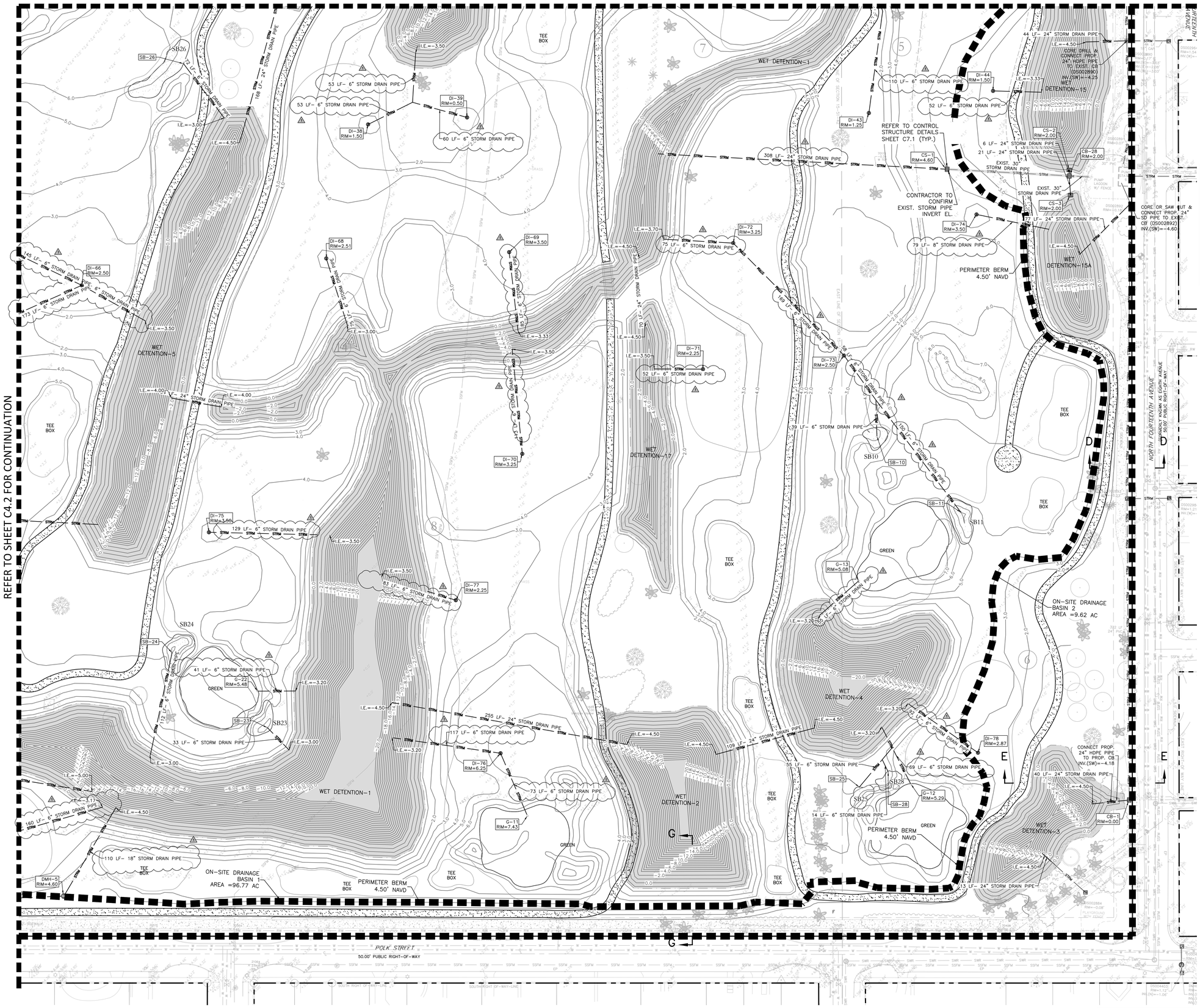
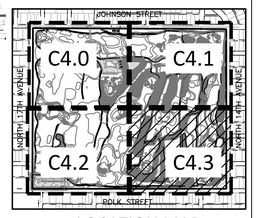
REFER TO SHEET C4.2 FOR CONTINUATION



GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET



LOCATION MAP

SCALE: 1" = 750'

GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C1.0 & C4.0 FOR SITE GRADING AND DRAINAGE SPECIFICATIONS

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
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1	CITY COMMENTS	12/22/2023

SHEET NAME

SITE GRADING & DRAINAGE PLAN

SHEET NO.

C4.3

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DRAINAGE STRUCTURE TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE	NORTHING & EASTING	STRUCTURE INFORMATION
CB-1	TYPE 'C' CATCH BASIN	N: 611765.05 E: 940506.78	RE=0.00 I.E.(W)=-4.18
CB-3	TYPE 'C' CATCH BASIN	N: 613051.54 E: 938936.36	RE=4.50 I.E.(S)=-0.57
CB-4	TYPE 'C' CATCH BASIN	N: 612967.86 E: 938956.45	RE=4.50 I.E.(N)=-1.00 I.E.(E)=-1.00
CB-5	TYPE 'C' CATCH BASIN	N: 612973.76 E: 939117.70	RE=4.50 I.E.(W)=-1.81 I.E.(E)=-1.81 I.E.(N)=0.45
CB-6	TYPE 'C' CATCH BASIN	N: 613082.81 E: 939134.49	RE=6.00 I.E.(S)=1.00
CB-9	TYPE 'C' CATCH BASIN	N: 611664.48 E: 938218.51	RE=5.50 I.E.(E)=1.00 I.E.(SW)=1.00
CB-10	TYPE 'C' CATCH BASIN	N: 611673.31 E: 938451.84	RE=6.89 I.E.(W)=1.00 I.E.(S)=1.00
CB-11	TYPE 'C' CATCH BASIN	N: 611618.30 E: 938197.19	RE=5.50 I.E.(NE)=1.25
CB-12	TYPE 'C' CATCH BASIN	N: 611592.30 E: 938259.59	RE=5.50 I.E.(E)=1.00
CB-13	TYPE 'C' CATCH BASIN	N: 611599.39 E: 938455.35	RE=5.50 I.E.(W)=0.50 I.E.(N)=1.00 I.E.(E)=0.50
CB-14	TYPE 'C' CATCH BASIN	N: 611605.58 E: 938555.37	RE=5.72 I.E.(E)=-0.04 I.E.(SW)=-0.04
CB-15	TYPE 'C' CATCH BASIN	N: 611669.90 E: 938358.73	RE=6.78 I.E.(W)=1.00 I.E.(E)=1.00
CB-16	TYPE 'C' CATCH BASIN	N: 611595.75 E: 938355.87	RE=5.50 I.E.(W)=1.00 I.E.(E)=0.50
CB-17	TYPE 'C' CATCH BASIN	N: 611584.95 E: 938521.46	RE=5.40 I.E.(W)=0.16 I.E.(NE)=0.16
CB-18	TYPE 'C' CATCH BASIN	N: 611543.04 E: 938435.05	RE=4.18 I.E.(W)=1.12
CB-19	TYPE 'C' CATCH BASIN	N: 611538.54 E: 938319.34	RE=4.18 I.E.(E)=1.12 I.E.(W)=1.12
CB-20	TYPE 'C' CATCH BASIN	N: 611592.75 E: 938142.90	RE=4.64 I.E.(S)=1.58
CB-28	TYPE 'C' CATCH BASIN	N: 612429.30 E: 940418.52	RE=2.00 I.E.(W)=-4.00 I.E.(E)=-4.00 I.E.(S)=-5.00 I.E.(N)=-5.00
CB-30	TYPE 'C' CATCH BASIN	N: 612429.30 E: 940418.53	RE=0.00
CS-1	CONTROL STRUCTURE	N: 612431.68 E: 940286.96	RE=4.60 I.E.(W)=-5.00 I.E.(E)=-4.00

CONTRACTOR TO VERIFY INVERT ELEVATION

DRAINAGE STRUCTURE TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE	NORTHING & EASTING	STRUCTURE INFORMATION
CS-2	CONTROL STRUCTURE	N: 612435.63 E: 940418.16	RE=2.00 I.E.(E)=-5.00
CS-3	CONTROL STRUCTURE	N: 612408.79 E: 940420.54	RE=2.00 I.E.(N)=-5.00
DI-1	DROP INLET	N: 613426.43 E: 938392.94	RE=5.50 I.E.(E)=3.50
DI-2	DROP INLET	N: 613384.44 E: 938608.62	RE=5.50 I.E.(W)=2.40 I.E.(E)=-0.44 I.E.(SE)=1.25
DI-3	DROP INLET	N: 613247.27 E: 938698.61	RE=5.50 I.E.(NW)=2.07 I.E.(E)=2.07
DI-4	DROP INLET	N: 613388.62 E: 938861.45	RE=5.50 I.E.(W)=-1.70 I.E.(S)=0.29 I.E.(E)=-1.70
DI-5	DROP INLET	N: 613275.55 E: 939164.96	RE=3.50 I.E.(W)=-3.32 I.E.(SE)=-3.07 I.E.(N)=1.24
DI-6	DROP INLET	N: 613285.05 E: 939429.30	RE=1.50 I.E.(W)=-0.97 I.E.(S)=-2.80 I.E.(NW)=0.06 I.E.(N)=1.12 I.E.(E)=0.33
DI-8	DROP INLET	N: 613427.18 E: 939164.96	RE=3.50 I.E.(S)=2.00
DI-9	DROP INLET	N: 613380.13 E: 939352.18	RE=2.50 I.E.(SE)=0.67
DI-10	DROP INLET	N: 613449.84 E: 939491.21	RE=3.50 I.E.(S)=2.00
DI-11	DROP INLET	N: 613345.05 E: 939719.70	RE=3.53 I.E.(W)=1.81 I.E.(N)=3.42 I.E.(E)=1.81
DI-12	DROP INLET	N: 613460.63 E: 939717.01	RE=5.50 I.E.(S)=4.00
DI-13	DROP INLET	N: 613301.41 E: 940018.73	RE=5.50 I.E.(N)=-2.85
DI-14	DROP INLET	N: 613490.86 E: 940057.75	RE=3.50 I.E.(S)=-1.65
DI-15	DROP INLET	N: 613495.09 E: 940203.19	RE=3.50 I.E.(E)=2.00 I.E.(S)=-2.77
DI-16	DROP INLET	N: 613381.02 E: 940364.46	RE=3.50 I.E.(SW)=-2.89
DI-17	DROP INLET	N: 613377.77 E: 938322.85	RE=4.50 I.E.(SW)=2.65
DI-18	DROP INLET	N: 613218.87 E: 938235.20	RE=4.25 I.E.(NE)=1.74 I.E.(NW)=2.38 I.E.(SE)=1.74
DI-19	DROP INLET	N: 613208.42 E: 938387.82	RE=4.50 I.E.(S)=1.62 I.E.(E)=1.62

DRAINAGE STRUCTURE TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE	NORTHING & EASTING	STRUCTURE INFORMATION
DI-20	DROP INLET	N: 612304.21 E: 938397.66	RE=4.50 I.E.(NW)=-0.10 I.E.(SE)=-0.10 I.E.(NW)=2.80 I.E.(W)=2.02
DI-21	DROP INLET	N: 612795.12 E: 938555.13	RE=4.50 I.E.(NW)=-1.06 I.E.(SE)=-1.06
DI-22	DROP INLET	N: 612655.15 E: 938764.90	RE=4.25 I.E.(NW)=-2.32 I.E.(E)=-2.32 I.E.(W)=-4.50
DI-23	DROP INLET	N: 612696.21 E: 938900.55	RE=4.25 I.E.(W)=-3.03 I.E.(SE)=-4.17
DI-24	DROP INLET	N: 612816.75 E: 938306.14	RE=3.50 I.E.(S)=1.50
DI-25	DROP INLET	N: 612687.70 E: 938349.18	RE=4.50 I.E.(N)=0.82 I.E.(E)=0.82 I.E.(W)=2.63
DI-26	DROP INLET	N: 612633.01 E: 938551.57	RE=4.50 I.E.(W)=-0.23 I.E.(E)=-2.35
DI-27	DROP INLET	N: 612977.14 E: 938470.28	RE=5.50 I.E.(SE)=3.50
DI-28	DROP INLET	N: 612922.98 E: 938597.33	RE=5.50 I.E.(NW)=2.81 I.E.(E)=1.77 I.E.(N)=1.77
DI-29	DROP INLET	N: 612885.99 E: 938881.73	RE=4.50 I.E.(W)=0.34 I.E.(E)=0.34 I.E.(W)=1.77 I.E.(NW)=1.30
DI-30	DROP INLET	N: 612830.41 E: 938745.89	RE=4.50 I.E.(E)=2.50
DI-31	DROP INLET	N: 612988.87 E: 938764.68	RE=4.50 I.E.(SE)=2.08 I.E.(N)=2.48 I.E.(NE)=2.08
DI-32	DROP INLET	N: 612852.53 E: 939048.83	RE=2.50 I.E.(E)=-2.00 I.E.(NE)=1.00
DI-33	DROP INLET	N: 613058.08 E: 939884.56	RE=2.50 I.E.(N)=-2.12
DI-35	DROP INLET	N: 612928.95 E: 940287.27	RE=0.50 I.E.(W)=-2.98
DI-36	DROP INLET	N: 612654.70 E: 939225.42	RE=3.50 I.E.(NE)=-2.25 I.E.(S)=2.00
DI-37	DROP INLET	N: 612697.86 E: 939505.62	RE=3.50 I.E.(NW)=-2.16
DI-38	DROP INLET	N: 612456.92 E: 939667.75	RE=1.50 I.E.(NE)=-2.43
DI-39	DROP INLET	N: 612468.25 E: 939773.13	RE=0.50 I.E.(W)=-2.36
DI-40	DROP INLET	N: 612629.23 E: 940054.51	RE=3.50 I.E.(N)=1.80

DRAINAGE STRUCTURE TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE	NORTHING & EASTING	STRUCTURE INFORMATION
DI-41	DROP INLET	N: 612734.02 E: 940062.22	RE=2.50 I.E.(S)=1.27 I.E.(W)=-2.41
DI-43	DROP INLET	N: 612488.63 E: 940201.99	RE=1.25 I.E.(N)=-1.59
DI-44	DROP INLET	N: 612517.13 E: 940333.70	RE=1.50 I.E.(E)=-2.81
DI-45	DROP INLET	N: 612254.42 E: 938330.27	RE=4.25 I.E.(NW)=-2.12 I.E.(SW)=2.81 I.E.(S)=2.29 I.E.(NE)=1.75
DI-46	DROP INLET	N: 612317.72 E: 938245.90	RE=4.50 I.E.(SE)=2.65
DI-47	DROP INLET	N: 612185.95 E: 938176.46	RE=5.50 I.E.(NE)=3.65
DI-48	DROP INLET	N: 611856.09 E: 938239.15	RE=6.50 I.E.(N)=4.33 I.E.(E)=4.80
DI-49	DROP INLET	N: 612357.91 E: 938461.33	RE=4.99 I.E.(SW)=0.92 I.E.(SE)=0.92 I.E.(NW)=3.48
DI-50	DROP INLET	N: 612235.22 E: 938617.90	RE=4.50 I.E.(NW)=-0.07 I.E.(S)=-0.07
DI-51	DROP INLET	N: 612475.70 E: 938712.16	RE=5.50 I.E.(SW)=3.50 I.E.(E)=3.50
DI-52	DROP INLET	N: 612481.76 E: 938905.88	RE=4.50 I.E.(W)=2.53 I.E.(NE)=-3.81 I.E.(S)=-2.58
DI-53	DROP INLET	N: 612250.58 E: 938838.17	RE=4.50 I.E.(N)=-1.44
DI-55	DROP INLET	N: 612113.02 E: 938625.61	RE=4.50 I.E.(SE)=2.30 I.E.(S)=2.50 I.E.(N)=-1.44
DI-56	DROP INLET	N: 612071.70 E: 938804.31	RE=4.50 I.E.(W)=1.30 I.E.(S)=1.30
DI-57	DROP INLET	N: 611743.36 E: 938796.90	RE=4.50 I.E.(N)=-0.35 I.E.(W)=1.66 I.E.(S)=2.18 I.E.(E)=-0.35
DI-58	DROP INLET	N: 611652.70 E: 938771.55	RE=4.50 I.E.(N)=2.65 I.E.(W)=2.80
DI-59	DROP INLET	N: 611738.30 E: 938896.92	RE=4.50 I.E.(W)=-0.85 I.E.(S)=2.33 I.E.(E)=-0.85
DI-60	DROP INLET	N: 611651.51 E: 938932.38	RE=4.50 I.E.(N)=2.80 I.E.(E)=3.00
DI-62	DROP INLET	N: 611761.71 E: 939171.39	RE=4.50 I.E.(W)=-2.25 I.E.(E)=-2.71 I.E.(NW)=2.73
DI-63	DROP INLET	N: 612034.39 E: 939161.25	RE=1.50 I.E.(E)=-0.50

DRAINAGE STRUCTURE TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE	NORTHING & EASTING	STRUCTURE INFORMATION
DI-64	DROP INLET	N: 611668.08 E: 939259.14	RE=2.50 I.E.(E)=-1.57
DI-65	DROP INLET	N: 612198.07 E: 939212.34	RE=1.50 I.E.(NE)=-0.30
DI-66	DROP INLET	N: 612273.89 E: 939368.31	RE=2.50 I.E.(SW)=-1.17 I.E.(SE)=-2.72 I.E.(NW)=0.88
DI-67	DROP INLET	N: 612331.93 E: 939235.87	RE=3.50 I.E.(SE)=1.60
DI-68	DROP INLET	N: 612312.16 E: 939628.31	RE=2.51 I.E.(S)=-2.25
DI-69	DROP INLET	N: 612326.01 E: 939823.34	RE=3.50 I.E.(S)=-2.48
DI-70	DROP INLET	N: 612111.08 E: 939845.21	RE=3.25 I.E.(N)=-2.37
DI-71	DROP INLET	N: 612208.58 E: 940034.87	RE=2.25 I.E.(W)=-2.11
DI-72	DROP INLET	N: 612344.42 E: 940062.21	RE=3.25 I.E.(W)=-2.95 I.E.(SE)=-0.34
DI-73	DROP INLET	N: 612228.64 E: 940184.98	RE=2.50 I.E.(SE)=1.10 I.E.(NW)=0.50
DI-74	DROP INLET	N: 612384.51 E: 940320.86	RE=3.50 I.E.(E)=-2.54
DI-75	DROP INLET	N: 612015.09 E: 939513.71	RE=3.50 I.E.(E)=-2.21
DI-76	DROP INLET	N: 611790.42 E: 939833.71	RE=6.25 I.E.(W)=-2.03 I.E.(SE)=3.64
DI-77	DROP INLET	N: 611952.12 E: 939779.96	RE=2.25 I.E.(W)=-2.67
DI-78	DROP INLET	N: 611809.63 E: 940343.42	RE=2.87 I.E.(NW)=-2.28
DI-79	DROP INLET	N: 613117.15 E: 939566.01	RE=2.50 I.E.(NW)=-2.34 I.E.(N)=2.55
DI-80	DROP INLET	N: 613280.79 E: 939300.43	RE=1.50 I.E.(E)=-0.33
DI-83	DROP INLET	N: 613068.76 E: 938312.70	RE=6.68 I.E.(W)=4.23 I.E.(NW)=0.90 I.E.(NE)=0.83 I.E.(SE)=0.83
DI-88	DROP INLET	N: 612948.02 E: 938811.16	RE=5.18 I.E.(NW)=1.77 I.E.(NE)=2.56 I.E.(SE)=1.77
DI-90	DROP INLET	N: 613311.78 E: 938830.86	RE=5.50 I.E.(N)=0.70 I.E.(S)=4.43

DRAINAGE STRUCT TABULATION

STRUCTURE NUMBER	STRUCTURE TYPE
DI-92	DROP INLET
DI-94	DROP INLET
DI-97	DROP INLET
DI-100	DROP INLET
DI-101	DROP INLET
DI-102	DROP INLET
DI-103	DROP INLET
DI-110	DROP INLET
DI-111	DROP INLET
DI-112	DROP INLET
DMH-1	DRAINAGE MANHOLE
DMH-2	DRAINAGE MANHOLE
DMH-3	DRAINAGE MANHOLE
DMH-4	DRAINAGE MANHOLE
DMH-5	DRAINAGE MANHOLE
DMH-6	DRAINAGE MANHOLE
DMH-7	DRAINAGE MANHOLE
SB-25	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDR
SB-28	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDR

GREEN & BUNKER PIPE ENDING TABULATION

PIPE ENDING	NORTHING & EASTING	INVERTS INFORMATION	COMMENTS
G-1	N: 613372.12 E: 938239.94	I.E.(SE)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-2	N: 612995.65 E: 938227.47	I.E.(SE)=3.77	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-3	N: 613164.38 E: 938547.55	I.E.(S)=3.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-4	N: 613297.03 E: 938830.47	I.E.(N)=4.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-5	N: 613047.70 E: 938825.90	I.E.(SW)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-6	N: 612888.74 E: 939174.32	I.E.(SE)=-2.59	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-7	N: 612747.50 E: 939018.70	I.E.(SW)=-2.53	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-8	N: 611976.28 E: 938590.07	I.E.(N)=3.21	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-9	N: 611669.95 E: 938690.27	I.E.(E)=3.22	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-11	N: 611724.56 E: 939864.97	I.E.(NW)=4.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-12	N: 611773.31 E: 940273.03	I.E.(NW)=-2.51	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-13	N: 611988.57 E: 940209.43	I.E.(SW)=-2.65	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-14	N: 612908.93 E: 939510.51	I.E.(W)=-2.62	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-15	N: 612931.00 E: 940031.81	I.E.(SW)=-2.70	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-16	N: 613087.48 E: 939706.05	I.E.(NE)=-2.34	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-17	N: 613329.46 E: 940161.62	I.E.(NW)=-1.76	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-18	N: 613396.68 E: 940254.48	I.E.(SW)=-2.99	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-19	N: 613394.33 E: 939827.97	I.E.(SW)=3.47	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-20	N: 611870.77 E: 939048.16	I.E.(NE)=3.66	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
G-21	N: 611829.39 E: 938330.77	I.E.(W)=5.28	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE

GREEN & BUNKER PIPE ENDING TABULATION

PIPE ENDING	NORTHING & EASTING	INVERTS INFORMATION	COMMENTS
G-22	N: 611847.30 E: 939571.89	I.E.(E)=-2.79	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-1	N: 612494.27 E: 938310.50	I.E.(SE)=4.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-2	N: 612621.96 E: 938188.10	I.E.(E)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-3	N: 613030.57 E: 938147.27	I.E.(SE)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-4	N: 613067.72 E: 938258.61	I.E.(E)=4.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-5	N: 613002.68 E: 938283.27	I.E.(E)=2.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-6	N: 613342.46 E: 938243.83	I.E.(SE)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-7	N: 613431.38 E: 939790.23	I.E.(S)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-8	N: 613331.94 E: 939819.39	I.E.(NW)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-9	N: 613503.74 E: 940275.47	I.E.(W)=2.36	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-10	N: 612143.45 E: 940223.21	I.E.(N)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-11	N: 612065.82 E: 940315.77	I.E.(NW)=2.14	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-12	N: 612948.75 E: 940151.26	I.E.(E)=-2.48	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-13	N: 611754.50 E: 939116.16	I.E.(NE)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-14	N: 611646.41 E: 938959.19	I.E.(NW)=3.16	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-15	N: 611734.96 E: 938697.79	I.E.(NW)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-16	N: 611757.84 E: 938660.28	I.E.(NE)=2.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-17	N: 612410.48 E: 938494.45	I.E.(SE)=5.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-18	N: 613066.87 E: 938506.37	I.E.(E)=3.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-19	N: 613138.35 E: 938591.20	I.E.(SW)=4.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE

GREEN & BUNKER PIPE ENDING TABULATION

PIPE ENDING	NORTHING & EASTING	INVERTS INFORMATION	COMMENTS
SB-21	N: 613217.86 E: 938796.90	I.E.(W)=2.58	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-22	N: 613172.36 E: 939568.66	I.E.(S)=2.83	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-23	N: 611808.64 E: 939583.81	I.E.(SE)=-2.67	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-24	N: 611885.06 E: 939479.07	I.E.(S)=-1.88	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-25	N: 611768.35 E: 940218.15	I.E.(NE)=1.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-26	N: 612514.63 E: 939468.24	I.E.(SE)=-2.28	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-27	N: 612862.89 E: 939503.02	I.E.(W)=-2.35	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-28	N: 611785.77 E: 940248.21	I.E.(NW)=1.50	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-29	N: 612504.18 E: 939210.40	I.E.(N)=2.76	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-32	N: 613052.68 E: 938765.18	I.E.(S)=2.80	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-33	N: 613105.01 E: 938772.92	I.E.(SW)=4.20	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-34	N: 613122.96 E: 938852.90	I.E.(SE)=4.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-35	N: 613045.74 E: 938893.02	I.E.(SW)=3.20	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-36	N: 612451.78 E: 938687.85	I.E.(NE)=3.67	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-37	N: 612375.55 E: 938534.39	I.E.(SW)=5.00	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-40	N: 612897.82 E: 939068.00	I.E.(SW)=1.25	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE
SB-41	N: 612781.08 E: 939115.70	I.E.(SE)=-2.48	PIPE END AT GREEN AND BUNKERS TO CONNECT TO UNDERDRAIN LATTICE

COORDINATE FINAL SAND BUNKER AND GREEN RIM AND INVERTS IN FIELD WITH GOLF COURSE ARCHITECT

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
DRAINAGE STRUCTURE & PIPE TABULATION

SHEET NO.
C4.4

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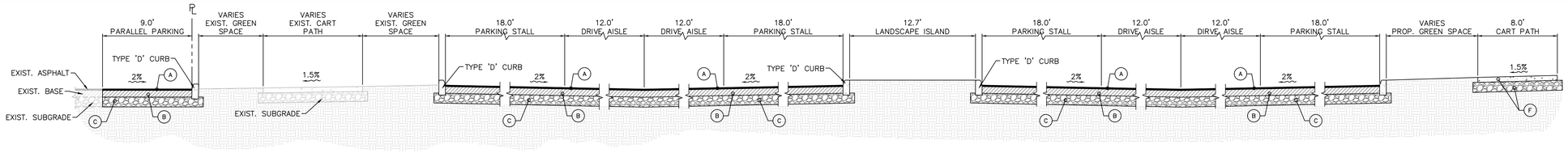


(A) 1-3/4" S-III ASPHALT PAVEMENT TO BE CONSTRUCTED IN TWO LIFTS. FIRST LIFT TYPE SP9.5 (TYPE S-III EQUIVALENT) ASPHALT 1", SECOND LIFT TYPE SP9.5 (TYPE S-III EQUIVALENT)ASPHALT 3/4"

(B) 8" LIMEROCK BASE LBR 100 UNIFORMLY COMPACTED TO 98% MAX. DRY DENSITY PER MODIFIED PROCTOR AASHTO T-180 WITH PRIME & TACK COAT

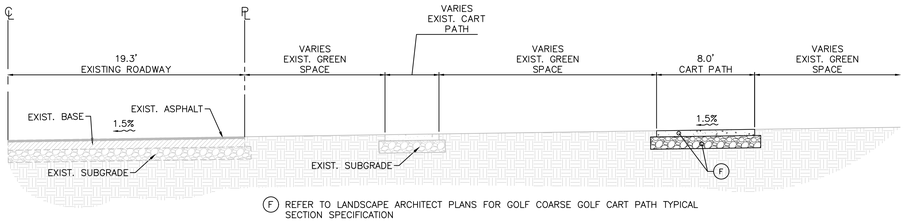
(C) 12" STABILIZED SUBGRADE LBR 40 TYPICAL (TYPE B STABILIZATION) COMPACTED TO 98% MAX. DRY DENSITY PER MODIFIED PROCTOR AASHTO T-180

(D) 6" CONCRETE CART PATH/SURFACE W/ COMPRESSION STRENGTH OF 3500 PSI @ 28 DAYS

(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

SECTION A-A

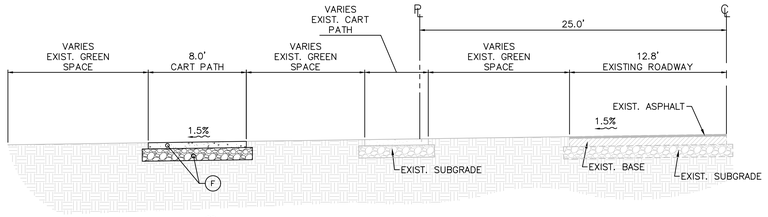
SCALE: 1" = 5'
(REFER TO SHEET C4.2)
(REFER TO SHEET C4.5)



(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

SECTION B-B

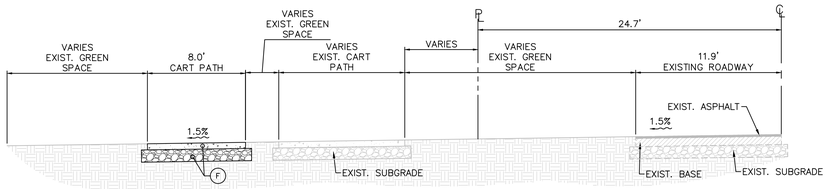
SCALE: 1" = 5'
(REFER TO SHEET C4.0)
(REFER TO SHEET C4.2)



(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

SECTION C-C

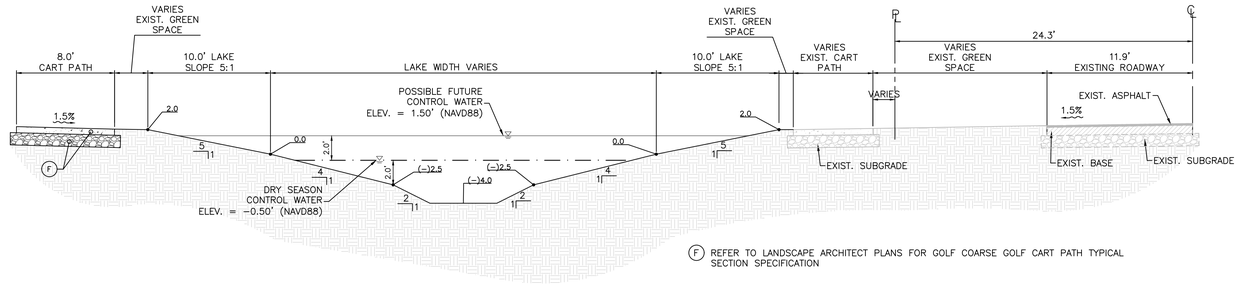
SCALE: 1" = 5'
(REFER TO SHEET C4.1)
(REFER TO SHEET C4.2)



(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

SECTION D-D

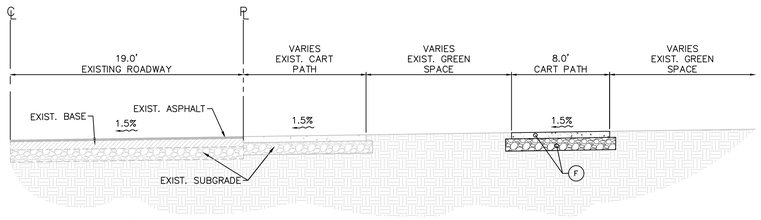
SCALE: 1" = 5'
(REFER TO SHEET C4.1)
(REFER TO SHEET C4.3)



(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

SECTION E-E

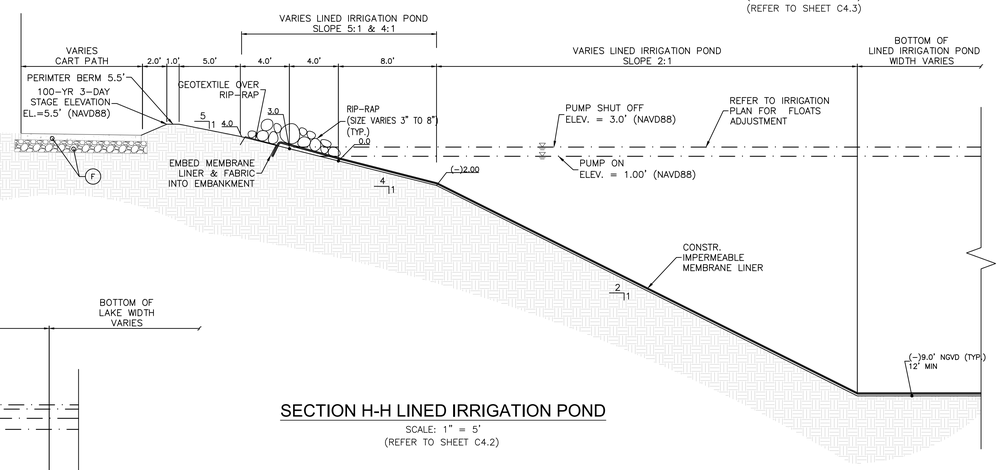
SCALE: 1" = 5'
(REFER TO SHEET C4.1)
(REFER TO SHEET C4.3)



(F) REFER TO LANDSCAPE ARCHITECT PLANS FOR GOLF COARSE GOLF CART PATH TYPICAL SECTION SPECIFICATION

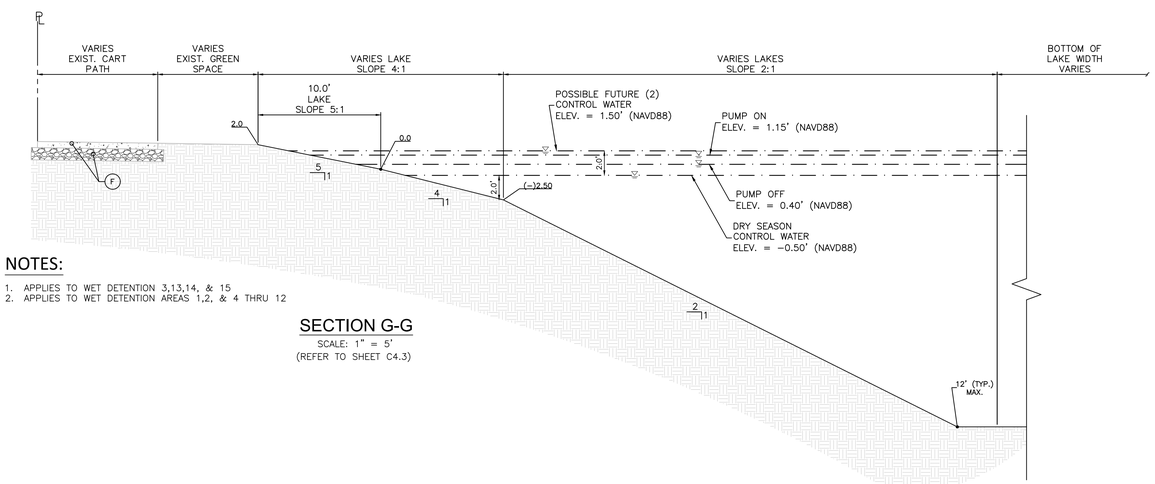
SECTION F-F

SCALE: 1" = 5'
(REFER TO SHEET C4.2)



SECTION H-H LINED IRRIGATION POND

SCALE: 1" = 5'
(REFER TO SHEET C4.2)



SECTION G-G

SCALE: 1" = 5'
(REFER TO SHEET C4.3)

NOTES:

1. APPLIES TO WET DETENTION 3,13,14, & 15
2. APPLIES TO WET DETENTION AREAS 1,2, & 4 THRU 12

SURVEY DATUM NOTE:

ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88') OBTAINED FROM THE SURVEY PERFORMED BY ALLEN & COMPANY..

NGVD-NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 - 1.509'

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

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ML PROJECT No. 21-00060

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FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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Hollywood, FL 33020

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ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
TYPICAL CROSS SECTIONS

SHEET NO.
C4.5

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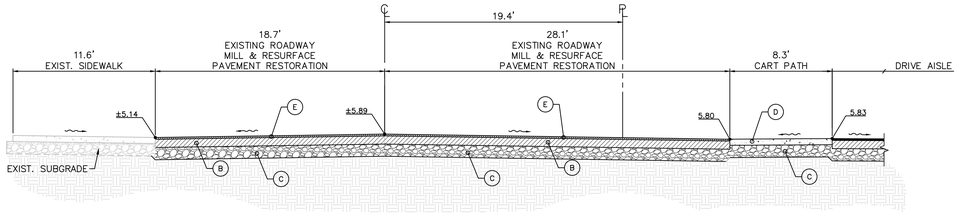

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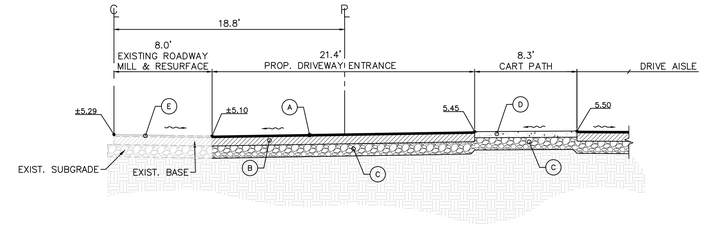
(C) 12" STABILIZED SUBGRADE LBR 40 TYPICAL (TYPE B STABILIZATION) COMPACTED TO 98% MAX. DRY DENSITY PER MODIFIED PROCTOR AASHTO T–180

(D) 6" CONCRETE CART PATH/SURFACE W/ COMPRESSION STRENGTH OF 3500 PSI @ 28 DAYS

(E) MILL & RESURFACE EXIST. ASPHALT PAVEMENT W/ 1–3/4" S–III IN TWO LIFTS. FIRST LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT) ASPHALT 1", SECOND LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT)ASPHALT 3/4"

SECTION I-I
SCALE: 1" = 5'
(REFER TO SHEET C4.1)



(A) 1–3/4" S–III ASPHALT PAVEMENT TO BE CONSTRUCTED IN TWO LIFTS. FIRST LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT) ASPHALT 1", SECOND LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT)ASPHALT 3/4"

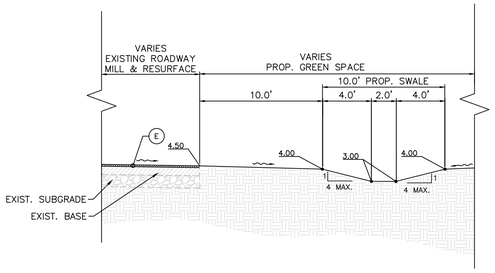
(B) 8" LIMEROCK BASE LBR 100 UNIFORMLY COMPACTED TO 98% MAX. DRY DENSITY PER MODIFIED PROCTOR AASHTO T–180 WITH PRIME & TACK COAT

(C) 12" STABILIZED SUBGRADE LBR 40 TYPICAL (TYPE B STABILIZATION) COMPACTED TO 98% MAX. DRY DENSITY PER MODIFIED PROCTOR AASHTO T–180

(D) 6" CONCRETE CART PATH/SURFACE W/ COMPRESSION STRENGTH OF 3500 PSI @ 28 DAYS

(E) MILL & RESURFACE EXIST. ASPHALT PAVEMENT W/ 1–3/4" S–III IN TWO LIFTS. FIRST LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT) ASPHALT 1", SECOND LIFT TYPE SP9.5 (TYPE S–III EQUIVALENT)ASPHALT 3/4"

SECTION J-J
SCALE: 1" = 5'
(REFER TO SHEET C4.2)



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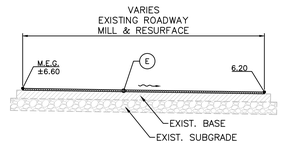
SECTION K-K
SCALE: 1" = 5'
(REFER TO SHEET C4.2)
(REFER TO SHEET C6.2)



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SECTION J-J
SCALE: 1" = 5'
(REFER TO SHEET C6.1)

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NGVD–NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 – 1.509'

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO
LICENSE
No. 50063
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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FOOD & BEVERAGE:

Camacho
3103 Medlock Bridge road
Norcross, Georgia 30071
T: (770) 582-1144

SEAL:

PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
TYPICAL CROSS SECTIONS

SHEET NO.
C4.6

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LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART SIDEWALK
- PROP. GOLF CART PATH
- PROP. PAVERS
- PROP. WATER SURFACE LAKES
- PROP. PAVEMENT RESTORATION

SIGNAGE AND MARKING NOTES:

1. REFER TO SHEET C1.0 & C3.0 FOR SIGNING AND MARKING ON SPECIFICATIONS.

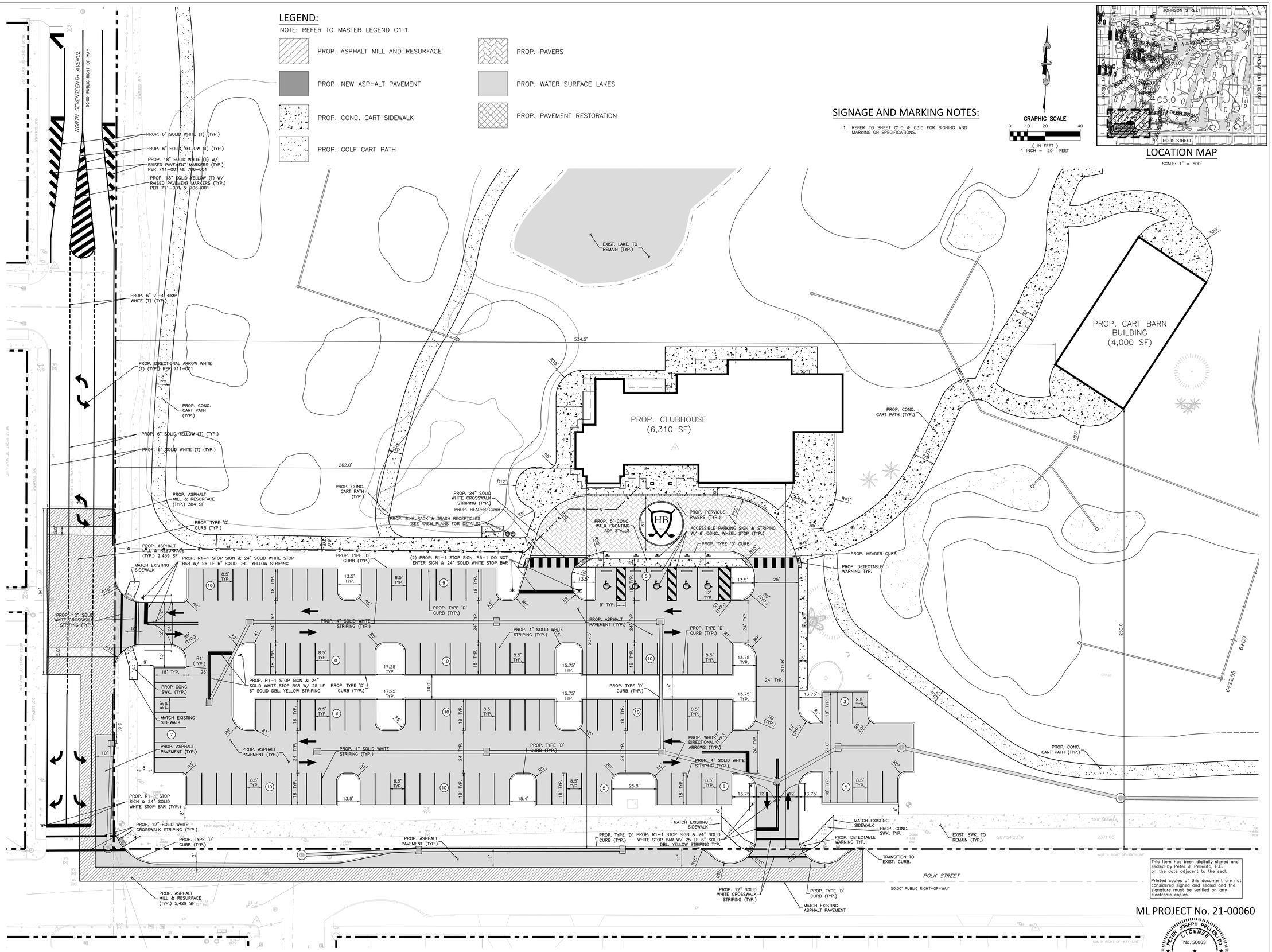
GRAPHIC SCALE

0 10 20 40

(IN FEET)
1 INCH = 20 FEET

LOCATION MAP

SCALE: 1" = 600'



ML PROJECT No. 21-00060

SIGNAGE NOTE:

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camacho

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Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

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SHEET NAME
CLUBHOUSE GEOMETRY, SIGNING & MARKING PLAN

SHEET NO.
C5.0

LEGEND:

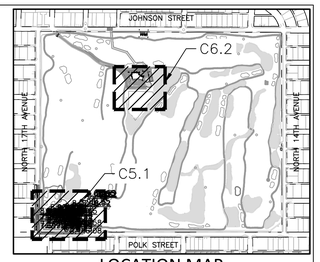
NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

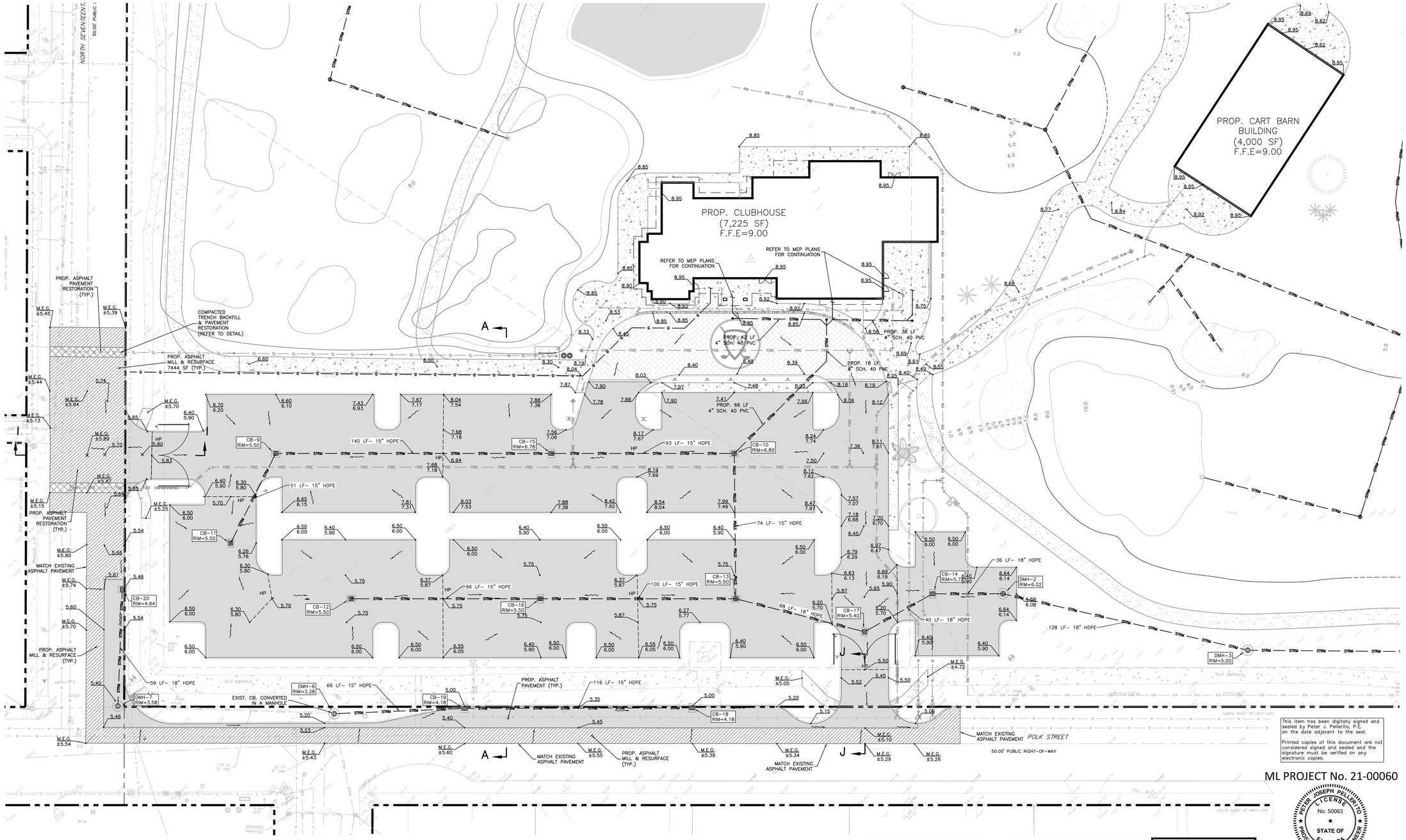
GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C1.0 & C4.0 FOR SITE GRADING AND DRAINAGE SPECIFICATIONS

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 INCH = 20 FEET



LOCATION MAP
SCALE: 1" = 600'



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APPROVED : PETER J. PELLERITO, P.E.
F.L.A. REGISTRATION NO. 50063 DATE : 1/3/2024

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SHEET NAME
CLUBHOUSE GRADING & DRAINAGE PLAN

SHEET NO.
C5.1

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LEGEND:

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- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

SEWER DEMANDS

	Land Use Category	Number of Units	Average Daily Flow (GPD)	Average Daily Flow (GPM)	Average Daily Flow (ERU)	Peak Hour Flow (GPD)	Peak Hour Flow (GPM)	Peak Hour Flow (ERU)
PROPOSED	Club House	7,225	1,445	1	5	6,069	4	20
	Total Proposed		1,445	1	5	6,069	4	20

1) Per Capita Flow per Miami-Dade County standards
Per Capita Flow = 20 GPD/ 100 SF

2) Population per Unit per Miami-dade standard
Persons per household = 1 N/A for commercial use

3) Average Daily Flow based on (# of units) x (per capita flow) x (population per household)

4) The peak factor and the Ten State Standards were both calculated and the larger of the two values was used to calculate the peak hour flow

Tributary Sewer Area	Peak Factor
less than 100 acres	4

Peak factor per the Ten State Standards
P = # Units x Occupancy (population in thousands)
Q_p = Peak Hourly Wastewater Flow
Q_a = Average Daily Wastewater Flow

Q_p / Q_a = 18+sq rt (P) / 4+ sq rt (P)
Peak Factor = 4.2

5) Peak Factor Flow based on (average daily flow) x (peak factor)

6) Equivalent Residential Unit (ERU) Conversion assumption
1 ERU = 300 GPD

Note
1) Proposed flow calculations for based on square footage

Potable Water Demand Analysis

Proposed Land Use as Commercial:
For Analysis of the Potable Water Demand 110% of the Sanitary Sewer Flow was used

Club House Daily Average Flow = 110% * 1,445 gpd = 1,590 gpd

Total Average Flow 1,590 gpd

Maximum Daily Flow (peak hour factor of 4): 1,590 gpd * 4 PHF = 6,358 gpd = 0.00636 MGD, PEAK HR

FIRE DEMAND: 1500 GPM @ 20 psi

Note
1) Proposed flow calculations for based on square footage

Fire Flow Calculations
New Clubhouse - Assembly Use A-3

These calculations are for a single story assembly use building, with a total ground floor square footage of 7,225 sf

Fire Flow Area = 7,225 sf

Based on Type II-B (222) Construction. Per NFPA 18.4.4.1 Fire Flow Area, the fire flow area is base on the total square footage of all floor levels except as noted in 14.4.4.2. Since one floor, total floor area is 7,225 sf.

Per Table 18.4.5.2.1, the fire flow requirement is 1,500 gmp for 2 hours

NFPA 18.4.5.3.2 states the required flow can be reduced by 75% if the building has automatic sprinkler.

1,500 gmp x 75% = 1,125 gpm (fire flow credit)

1,500 gmp - 1,125 gpm = 375 gpm

The minimum fire flow per NFPA 18.4.5.3.2 is 1,000 gpm

Fire flow required = 1,000 gpm (min)

Hydrant Flow Test Procedure

Procedure For One & Two Flow Hydrant Test:

- Establish hydrants closest to location and associated water main(s).
- Static/Residual hydrant (P) should be located close to location (preferably off same main as to provide future water source).
- Flow hydrant(s) (F) should be located off same main up and down stream from mid-point test (static/residual) hydrant.
- Note static system pressure off P hydrant before opening any other (note any unusual or remarkable anomalies such as high demand sources, construction, etc.)
- Flow F1 hydrant and record GPM and residual off P hydrant.
- Flow F2 hydrant and record GPM and residual off P hydrant.
- Flow F1 & F2 simultaneously and record GPM separately from F1 and F2 and record P hydrant residual.

Legend:
F1 & F2 Designation shall represent first and second flowed hydrants respectively.
P Designation shall represent test hydrant for static and residual distribution system pressures.

Department of Design and

Date: 6/8/22	Time: 8:54am	Static Pressure - 55psi	
Residual/Static Hydrant	Address/Location	Residual Pressures F-1 Only	F-2 Only
P - Hydrant FH004068	312 N 17th Ave	55psi	55psi
		F-1& F-2	52psi
Flow Hydrants	Address/Location	Flow Rate	
F-1 Hydrant (Individual) FH004090	600 N 17th Ave	GPM 1130	
F-2 Hydrant (Individual)	1600 Johnson St	GPM 1130	
F-1 Hydrant (Both Flowing)		GPM 1130	
F-2 Hydrant (Both Flowing)		GPM 1130	

GRAPHIC SCALE
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(IN FEET)
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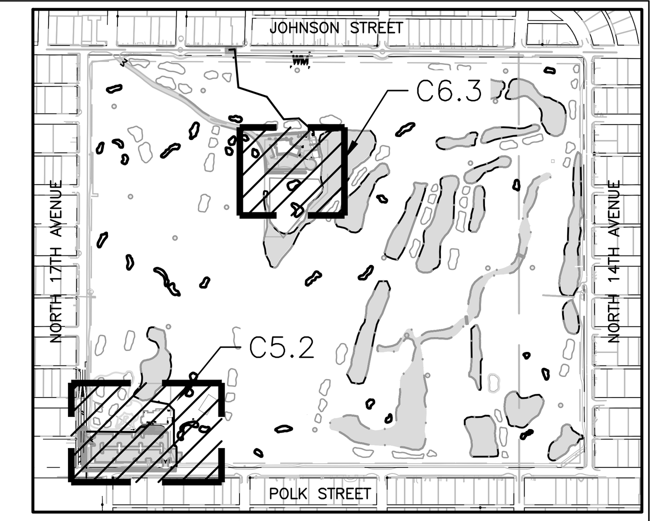
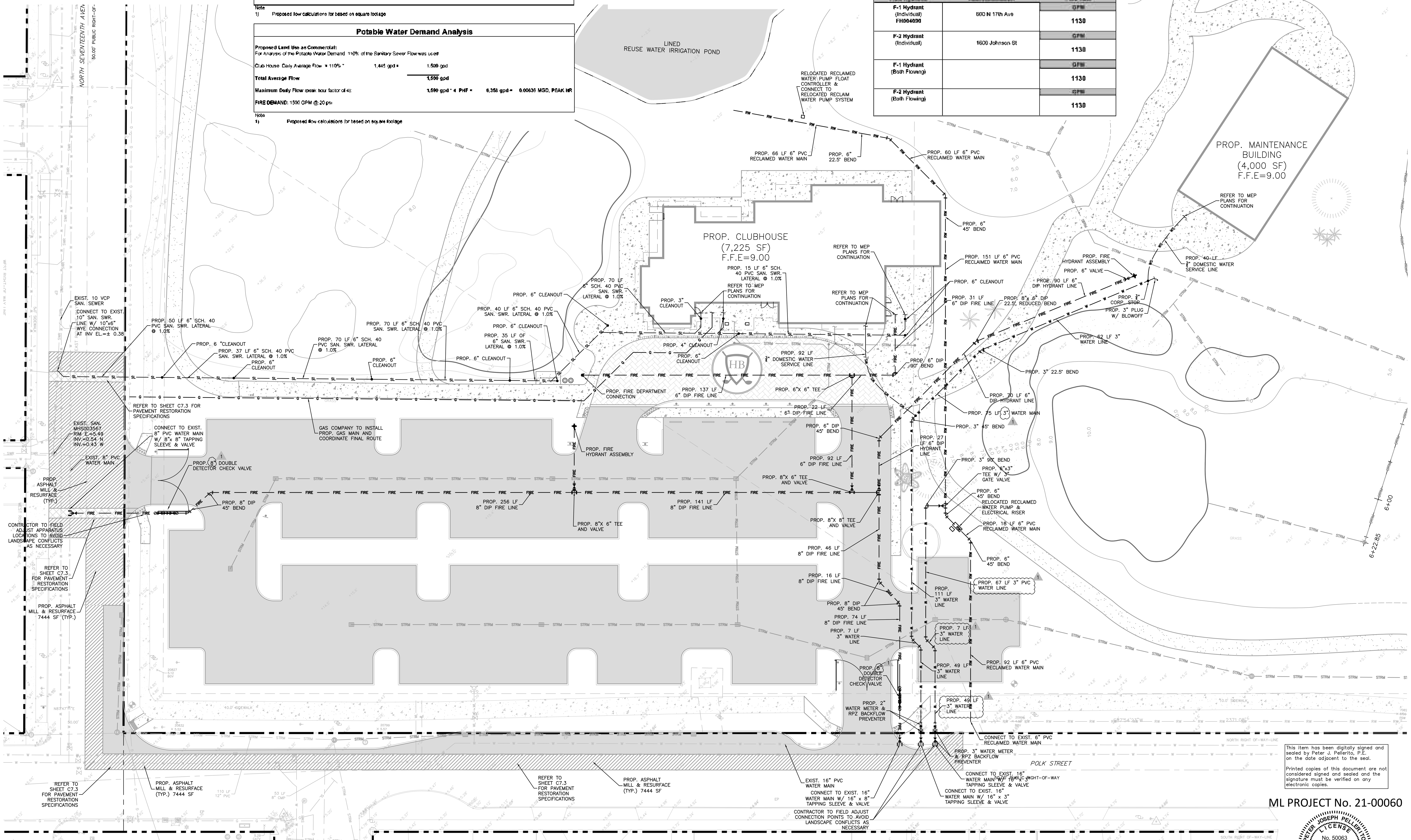


LOCATION MAP
SCALE: 1" = 600'



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ML PROJECT No. 21-00060

UTILITY NOTES:

1. WATER SUPPLY AND ANY NEW HYDRANTS SHALL BE IN PLACE PRIOR TO ACCUMULATION OF COMBUSTIBLE MATERIALS PER NFPA 1.
2. ALL UNDERGROUND FIRE MAIN WORK MUST BE COMPLETED BY FIRE PROTECTION CONTRACTOR HOLDING A CLASS I,II, OR V LICENSE PER FS 633.10

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REVISIONS:

No.:	DESCRIPTION	DATE:
1	CITY COMMENTS	12/22/23

SHEET NAME
CLUBHOUSE UTILITY PLAN

SHEET NO.
C5.2

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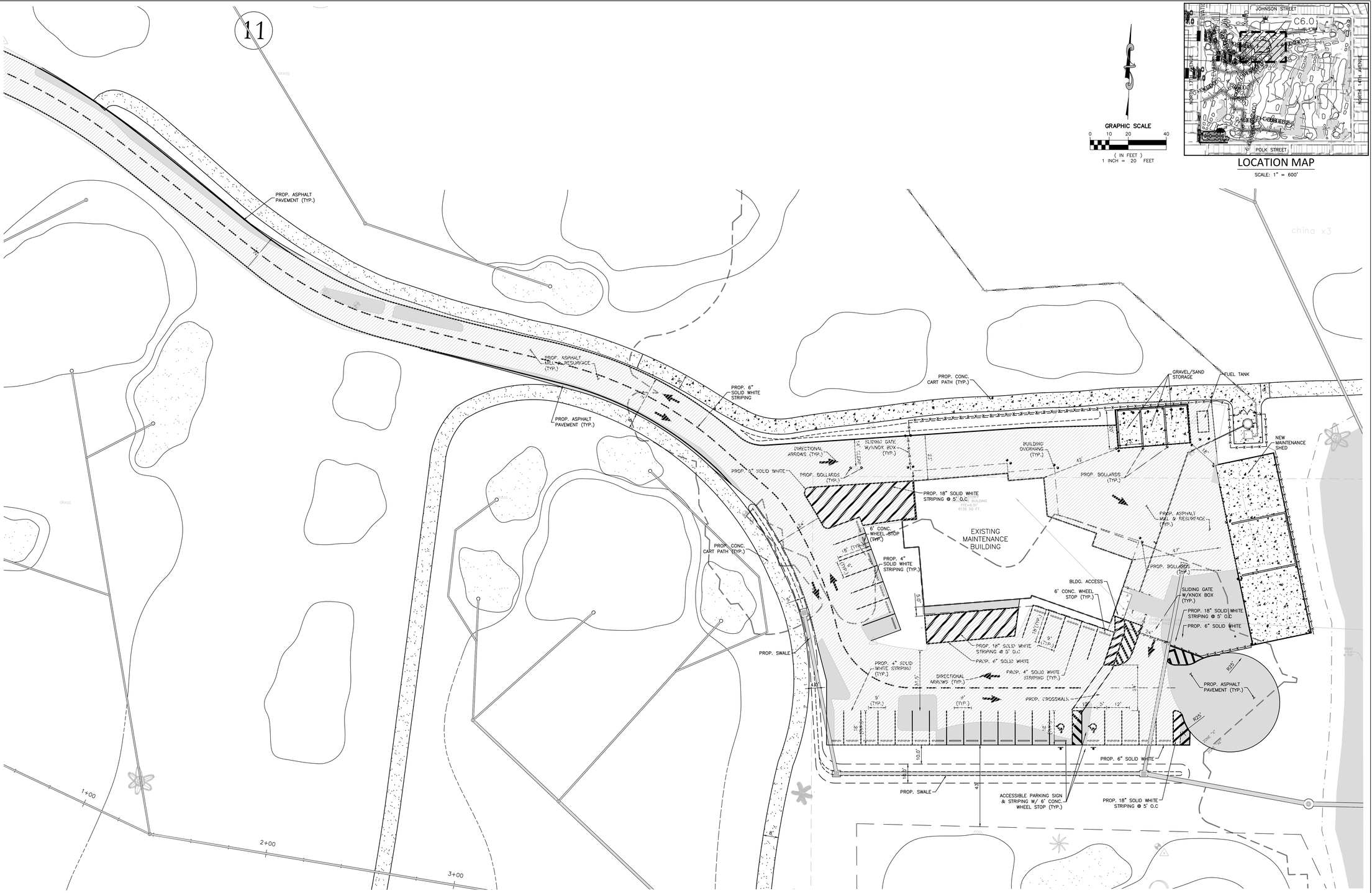

GRAPHIC SCALE
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1 INCH = 20 FEET

LOCATION MAP
SCALE: 1" = 600'

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

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- PROP. CONC. SIDEWALK
- PROP. GOLF CART PATH
- PROP. PAVERS
- PROP. WATER SURFACE LAKES
- PROP. PAVEMENT RESTORATION

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RICHARD MANDELL GOLF ARCHITECTURE

Richard Mandell Golf Architecture
2208 Midland Road
Pinehurst, North Carolina 28374
T: (910) 255-3111

ARCHITECTURE & INTERIOR DESIGN:

Bermello Ajamil & Partners

Bermello Ajamil & Partners, Inc.
Architecture Engineering Planning
Interior Design Landscape Architecture
2601 South Bayshore Drive, 10th Floor
Miami, Florida 33133
T: (305) 859-2050 F: (305) 860-3700

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T: (305) 442-7086

CIVIL ENGINEER:

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FOOD & BEVERAGE:

camacho

Camacho
3103 Medlock Bridge road
Norcross, Georgia 30071
T: (770) 582-1144

SEAL:

PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
MAINTENANCE BUILDING GEOMETRY, SIGNING & MARKING PLAN

SHEET NO.
C6.0

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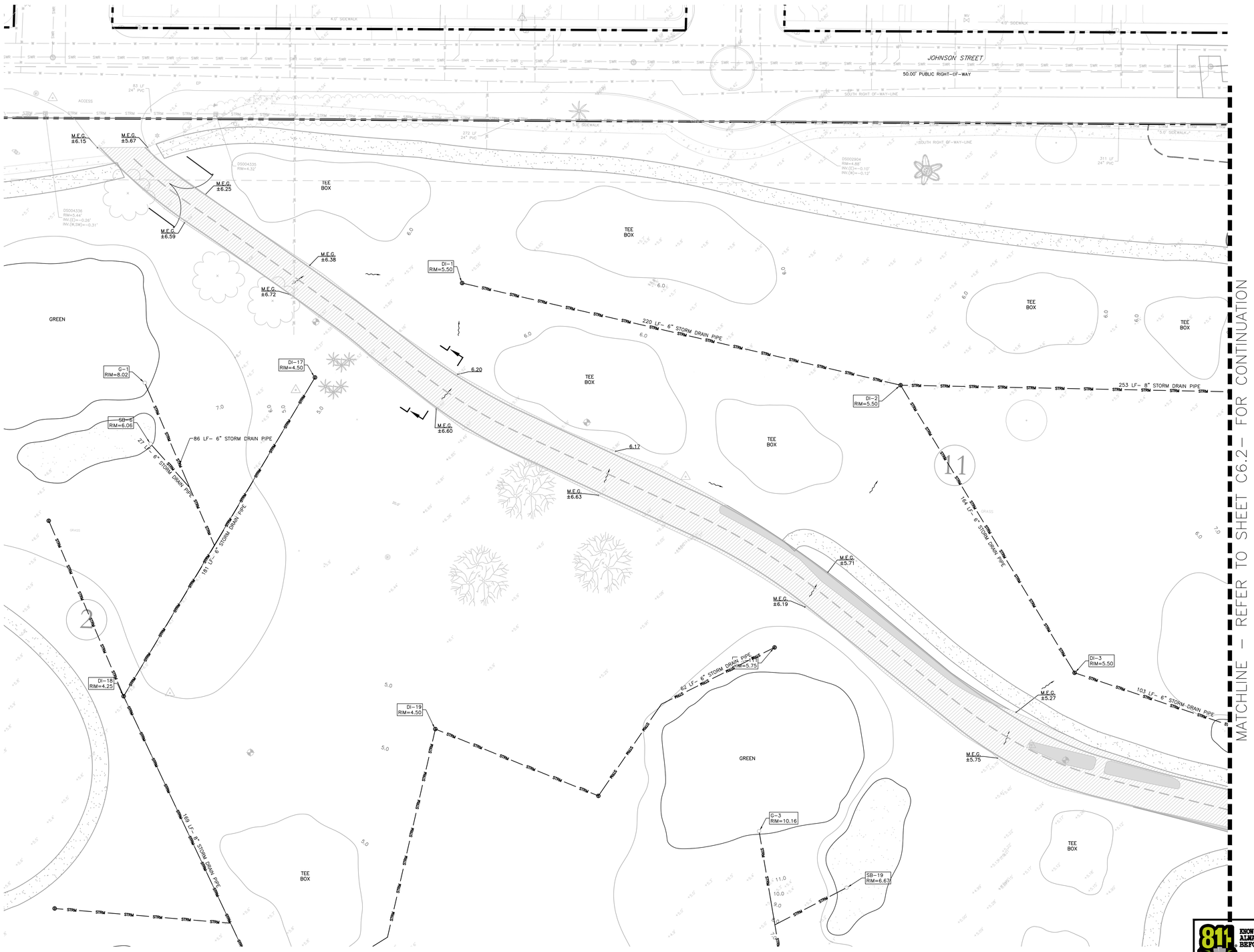

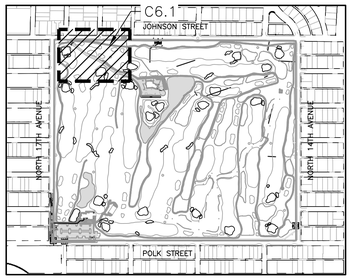

LOCATION MAP

SCALE: 1" = 600'

GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C1.0 & C4.0 FOR SITE GRADING AND DRAINAGE SPECIFICATIONS

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

SURVEY DATUM NOTE:

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NGVD–NAVD CONVERSION
GENERAL CONVERSION FROM 'NGVD' TO 'NAVD'
EQUATION: NAVD88 = NGVD29 – 1.509'

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ML PROJECT No. 21-00060

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

CLIENT:

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Design and Construction Management
PO Box 229045
Hollywood, Florida 33022-9045
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PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
MAINTENANCE BUILDING GRADING & DRAINAGE PLAN (ACCESS ROAD)

SHEET NO.
C6.1

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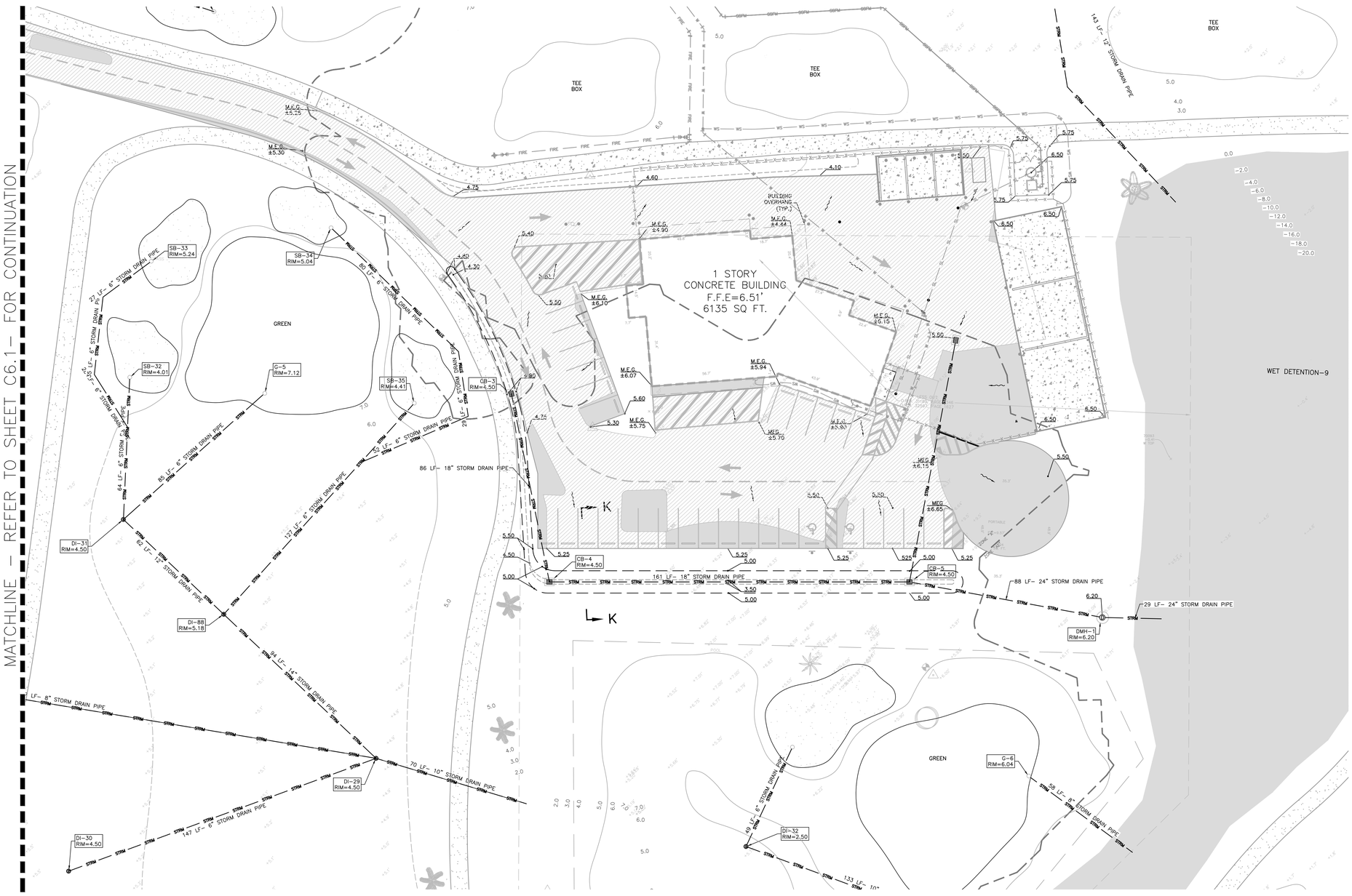

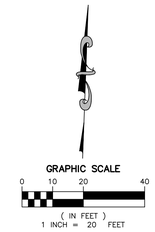

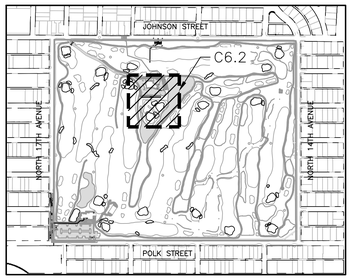

LOCATION MAP

SCALE: 1" = 600'

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LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

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PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
MAINTENANCE BUILDING GRADING & DRAINAGE PLAN

SHEET NO.
C6.2

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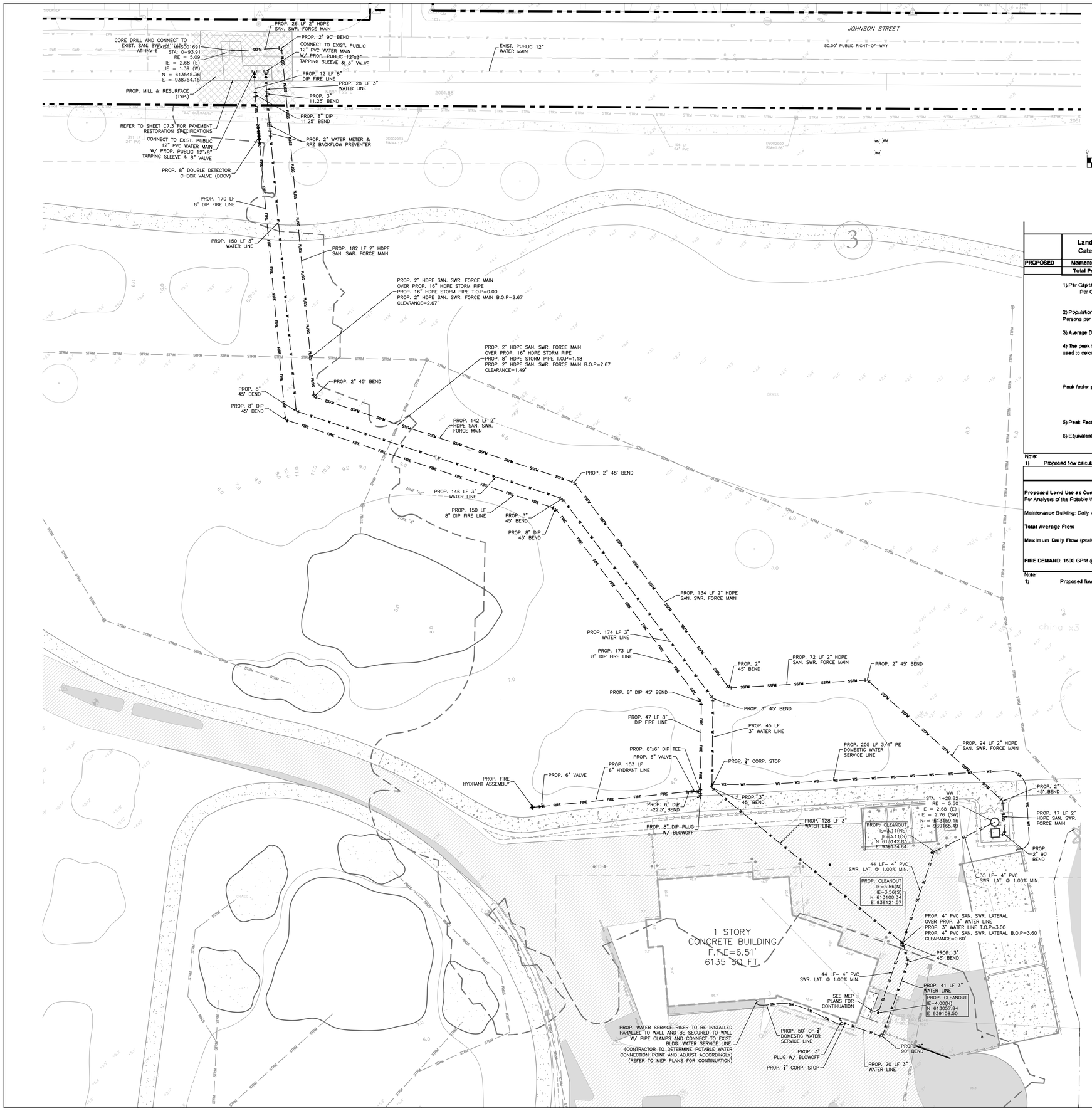

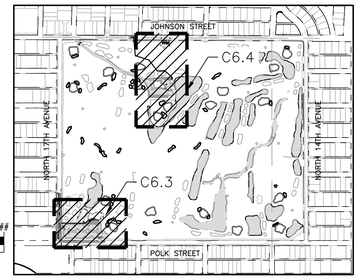

LOCATION MAP

SCALE: 1" = 600'

SEWER DEMANDS

	Land Use Category	Number of Units	Average Daily Flow (GPD)	Average Daily Flow (GPM)	Average Daily Flow (ERU)	Peak Hour Flow (GPD)	Peak Hour Flow (GPM)	Peak Hour Flow (ERU)
PROPOSED	Maintenance Bldg	6,135	307	0	1	1,288	1	4
	Total Proposed		307	0	1	1,288	1	4

1) Per Capita Flow per Miami-Dade County standards.
Per Capita Flow = 5 GPD / 100 SF

2) Population per Unit per Miami-dade standard:
Persons per household = 1 N/A for commercial use

3) Average Daily Flow based on (# of units) x (per capita flow) x (population per household)

4) The peak factor and the Ten State Standards were both calculated and the larger of the two values was used to calculate the peak hour flow

Tributary Sewer Area less than 100 acres	Peak Factor 4

Peak factor per the Ten State Standards
P = # Units x Occupancy (population in thousands) Q_h = 18+sq rt (P)
Q_h = Peak Hourly Wastewater Flow Q_a = 4+ sq rt (P)
Q_a = Average Daily Wastewater Flow Peak Factor = 4.2

5) Peak Factor Flow based on (average daily flow) x (peak factor)

6) Equivalent Residential Unit (ERU) Conversion assumption:
1 ERU = 300 GPD

Note:
1) Proposed flow calculations for based on square footage

Potable Water Demand Analysis

Proposed Land Use as Commercial:
For Analyses of the Potable Water Demand, 110% of the Sanitary Sewer Flow was used:

Maintenance Building: Daily Average Flow = 110% * 307 gpd = 337 gpd

Total Average Flow 337 gpd

Maximum Daily Flow (peak hour factor of 4). 337 gpd * 4 PHF = 1,350 gpd = 0.00135 MGD, PEAK HR

FIRE DEMAND: 1500 GPM @ 20 psi

Note:
1) Proposed flow calculations for based on square footage

LEGEND:

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

UTILITY NOTES:

1. WATER SUPPLY AND ANY NEW HYDRANTS SHALL BE IN PLACE PRIOR TO ACCUMULATION OF COMBUSTIBLE MATERIALS PER NFPA 1.
2. ALL UNDERGROUND FIRE MAIN WORK MUST BE COMPLETED BY FIRE PROTECTION CONTRACTOR HOLDING A CLASS I,II, OR V LICENSE PER FS 633.10

SURVEY DATUM NOTE:

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11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
MAINTENANCE BUILDING UTILITY PLAN

SHEET NO.
C6.3

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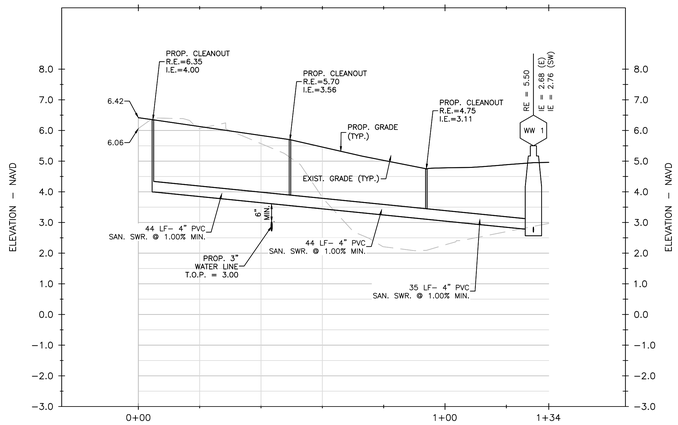
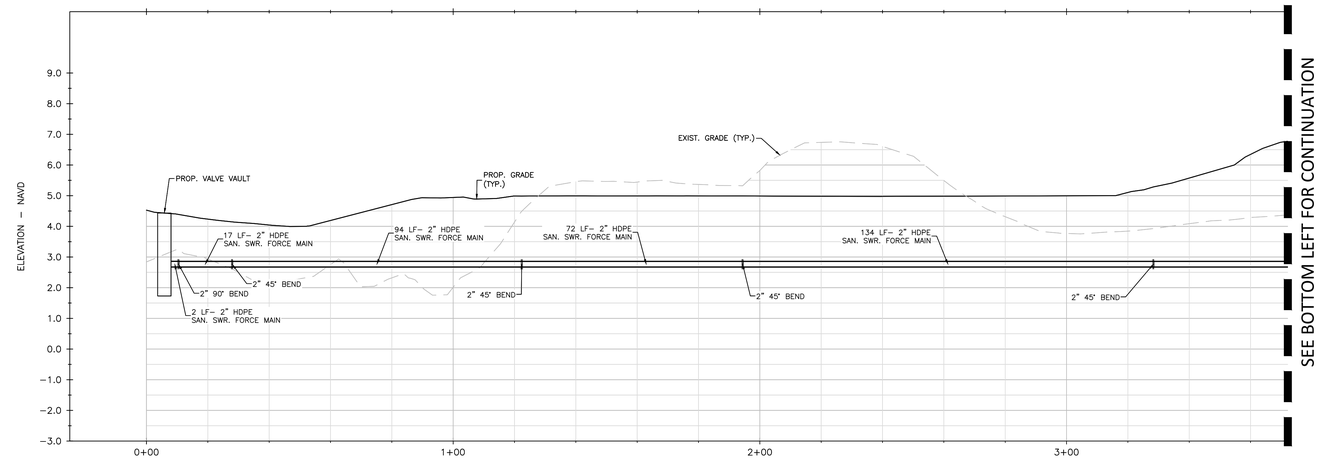
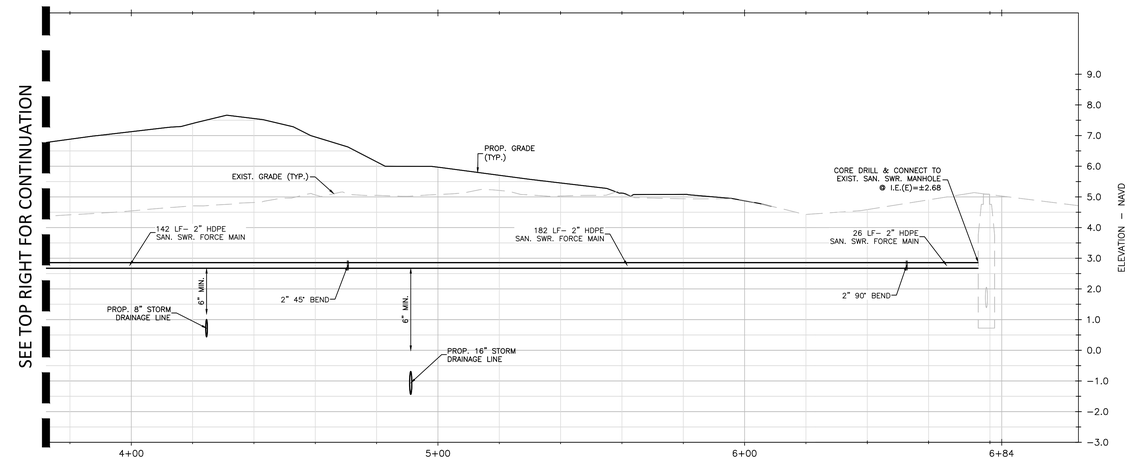


PROPOSED SANITARY SEWER LATERAL PROFILE VIEW

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'





PROPOSED SANITARY SEWER FORCE MAIN PROFILE VIEW

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

SURVEY DATUM NOTE:

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SHEET NAME
MAINTENANCE BUILDING UTILITY PROFILE

SHEET NO.
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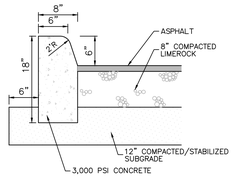
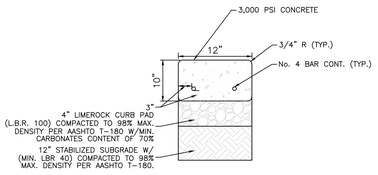
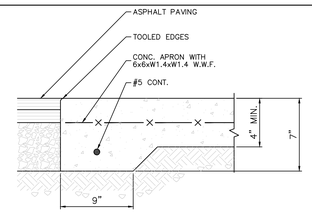


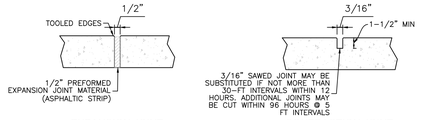
TYPE 'D' CURB
N.T.S.



HEADER CURB
N.T.S.

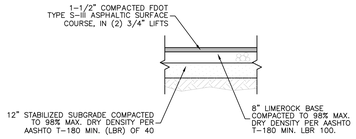


FLUSH CONCRETE SIDEWALK TO PAVEMENT EDGING DETAIL
N.T.S.
(3,500 PSI (MIN))



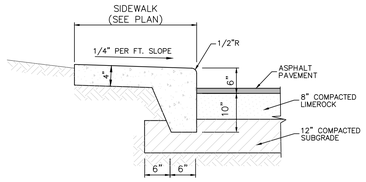
EXPANSION JOINT
(30' FT MAX SPACING)

CONTRACTION JOINT
(30' FT MAX SPACING)

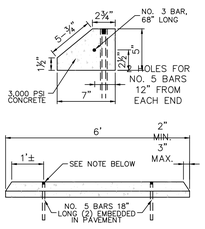


NOTE:
PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF AT LEAST 12" BELOW THE SUBGRADE LEVEL.

ASPHALT PAVEMENT TYPICAL CROSS-SECTION
N.T.S.

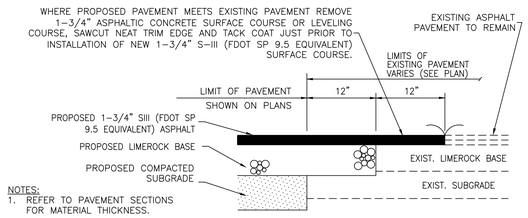


MONOLITHIC CURB AND SIDEWALK DETAIL
N.T.S.
(3,500 PSI (MIN))



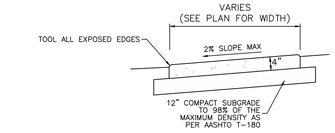
NOTE:
BARS TO BE DRIVEN 3/4 INCHES BELOW TOP OF WHEEL STOP AND GROUT FILLED FLUSH WITH TOP OF WHEEL STOP.

WHEEL STOP DETAIL
N.T.S.



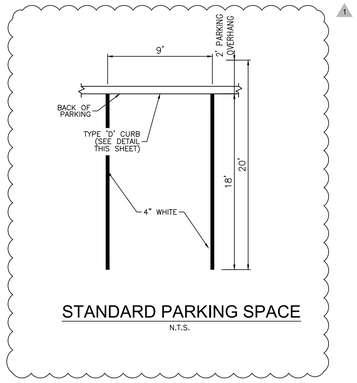
NOTES:
1. REFER TO PAVEMENT SECTIONS FOR MATERIAL THICKNESS.
2. LIMEROCK STEP CUT SHALL BE 8"V:12"H MIN.

CONNECTION TO EXISTING PAVEMENT DETAIL
N.T.S.

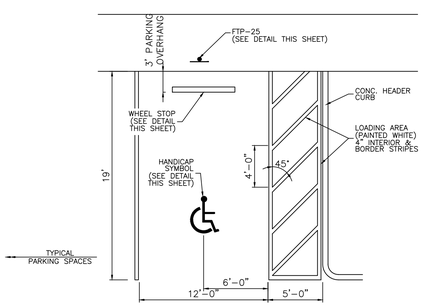


NOTES:
1. PROVIDE EXPANSION JOINTS BETWEEN SIDEWALK AND CURB OR AT ANY OTHER RIGID STRUCTURE/MATERIAL.
2. EXPANSION JOINTS SHALL BE PROVIDED AT 30 FT MAX SPACING. SIDEWALK JOINTS PLACEMENT SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS OR AS APPROVED BY ENGINEER.
3. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI @ 28 DAYS FOR SIDEWALKS/WALKWAYS.
4. FOR SIDEWALKS COMPACT SUBGRADE TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
5. TOOLED CONTRACTION JOINT SHALL BE PROVIDED AT 5 FT MAXIMUM SPACING. SAWED CONTRACTION JOINT MAY BE SUBSTITUTED IF CUT AT NO MORE THAN 30 FT INTERVALS WITHIN 12 HOURS AFTER CONCRETE HAS SET. ADDITIONAL CUTS AT 5 FT INTERVALS MUST BE CUT WITHIN 96 HOURS. SIDEWALK JOINTS PLACEMENT SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS OR AS APPROVED BY ENGINEER.
6. ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH F.D.O.T. STANDARDS, INCLUDING ANY REQUIRED "CURB RAMPS".
7. SIDEWALK SHALL BE 6" THICK AT DRIVEWAY LOCATIONS.

CONCRETE WALKWAY/SIDEWALK
N.T.S.

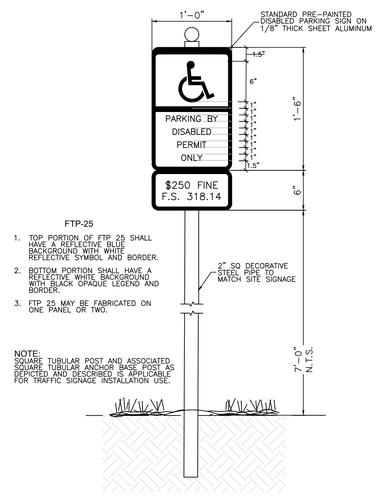


STANDARD PARKING SPACE
N.T.S.



NOTES:
GRADING/SLOPING OF THE ACCESSIBLE PARKING SPACE/ACCESS AISLE/'LOADING AREA' AND ACCESSIBLE SIDEWALK MUST ADHERE/MEET A.D.A. CRITERIA/REQUIREMENTS IN ALL DIRECTIONS. 'CONTRACTOR SHALL BE RESPONSIBLE TO INSURE ALL ACCESSIBLE PARKING SPACES AND ACCESSIBLE PATHS/ROUTES CONFORM TO A.D.A. CRITERIA/REQUIREMENTS, IRRESPECTIVE OF PROPOSED GRADING NOTED ON PLANS.

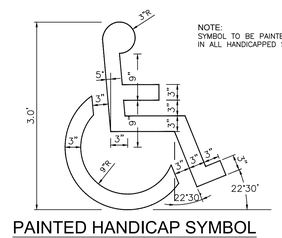
HANDICAP PARKING SPACE
N.T.S.



FTP-25
1. TOP PORTION OF FTP 25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 25 MAY BE FABRICATED ON ONE PANEL OR TWO.

NOTE:
SQUARE TUBULAR POST AND ASSOCIATED SQUARE TUBULAR ANCHOR BASE POST AS DEPICTED AND DESCRIBED IS APPLICABLE FOR TRAFFIC SIGNAGE INSTALLATION USE.

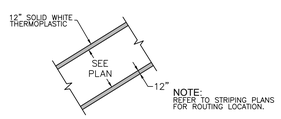
ACCESSIBLE PARKING SIGN DETAIL
N.T.S.



NOTE:
SYMBOL TO BE PAINTED WHITE IN ALL HANDICAPPED SPACES.

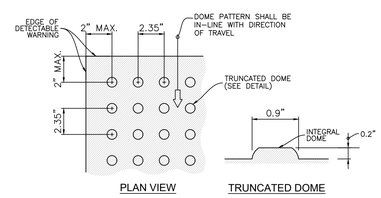
PAINTED HANDICAP SYMBOL
N.T.S.

NOTES:
1. DETECTABLE WARNING SURFACE AS REQUIRED PER AMERICAN WITH DISABILITIES ACT DESIGN STANDARDS REQUIRED AT ALL CONCRETE SIDEWALK LANDINGS WITHIN PROJECT LIMITS.
2. STAMPED CONCRETE IS NOT PERMITTED FOR DETECTABLE WARNING SURFACES. ARMOR TILE OR AN APPROVED EQUAL SHALL BE USED.
3. WHEN NOT PLACED ON CURB RAMPS, DETECTABLE WARNINGS SHALL BE PLACED ON THE WALKING SURFACES ADJOINING A VEHICULAR WAY. THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE.
4. UNLESS NOT PLACED DIRECTLY ON A RAMP, DETECTABLE WARNING SURFACE MUST NOT EXCEED 2% SLOPE IN ANY DIRECTION.
5. WHEN PLACED ON CURB RAMPS, DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL LENGTH AND WIDTH OF THE RAMP. FOR RAMPS WITHIN FDOT RIGHT-OF-WAY, REFER TO THE LATEST VERSION OF THE FDOT DESIGN STANDARDS INDEX #522-002.
6. CONSTRUCTION OF DETECTABLE WARNING SURFACE IS NOT LIMITED TO CONCRETE MATERIAL. HOWEVER, PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST INFORM TO THE ENGINEER OF RECORD THE PROPOSED MATERIAL FOR THE DETECTABLE WARNING SURFACE. CONTRACTOR MUST ENSURE THAT THE FOLLOWING TRUNCATED DOME CRITERIA IS MET:
   A. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%
   B. 90% OF THE INDIVIDUAL TRUNCATED DOMES MUST COMPLY WITH THE SPECIFIED DIMENSIONS AND DESIGN CRITERIA.
   C. NO TWO ADJACENT DOMES MAY BE NON-COMPLIANT.
   D. SURFACE MAY NOT DEVIATE MORE THAN 0.1" FROM A TRUE PLAN.
7. DETECTABLE WARNING SURFACES SHALL BE RECESSED INTO CONCRETE SIDEWALK TO INSURE FINISHED SURFACE IS FLUSH WITH FINISHED SURFACE OF CONCRETE SIDEWALK.

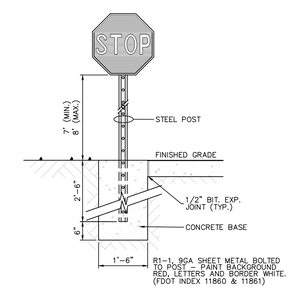


NOTE:
REFER TO STRIPING PLANS FOR ROUTING LOCATION.

PEDESTRIAN ROUTING STRIPING
N.T.S.



DETECTABLE WARNING DETAIL
N.T.S.



TRAFFIC SIGN MOUNTING DETAIL
N.T.S.

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Richard Mandell Golf Architecture
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SEAL:

PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
GENERAL CONSTRUCTION DETAILS

SHEET NO.
C7.0

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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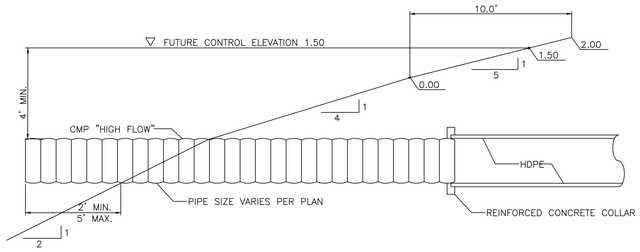
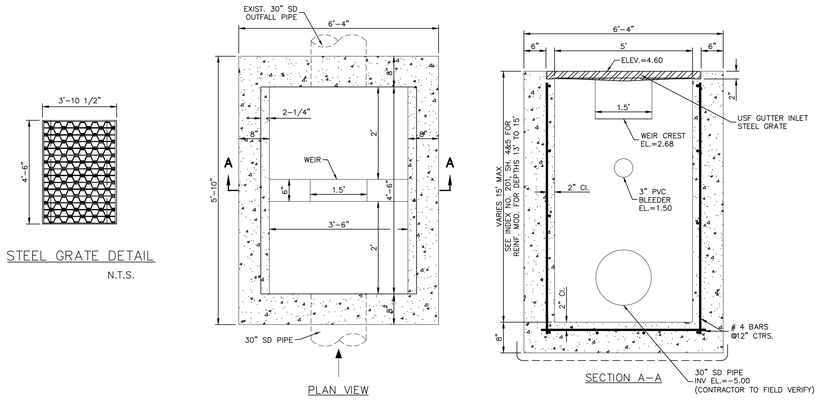


TYPICAL PIPE OUTFALL SECTION

N.T.S.

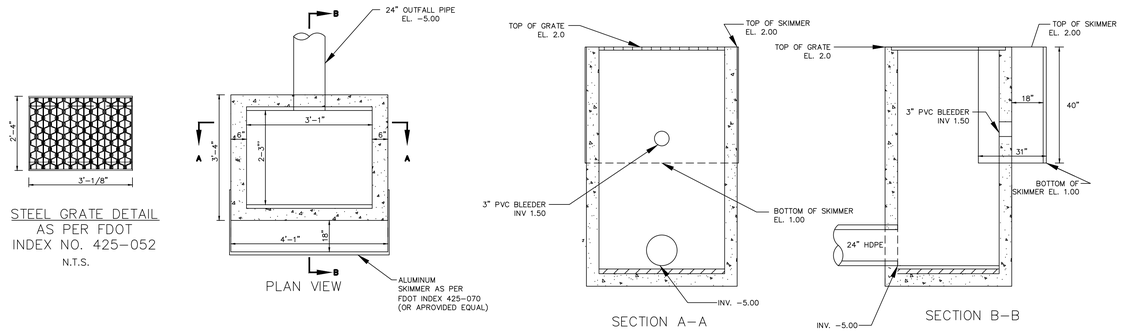
(SEE PLAN SHEETS FOR INVERT ELEVATION AND PIPE SIZE)



CONTROL STRUCTURE DETAIL

DITCH BOTTOM INLET TYPE "J"

N.T.S.

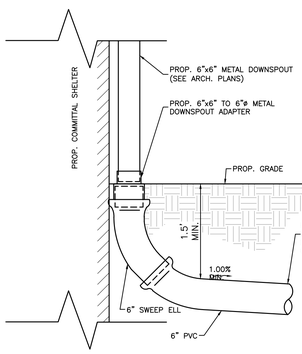


CONTROL STRUCTURE CS-2 & CS-3

FDOT TYPE "C" INLET

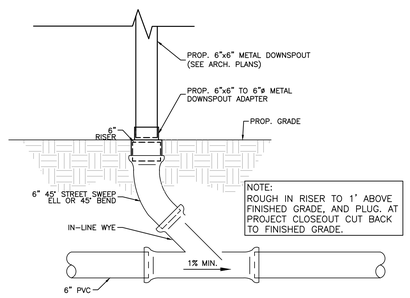
INDEX NO. 425-052

N.T.S.



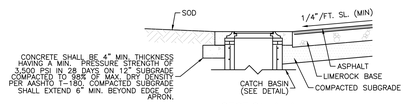
7 ROOF LEADER CONNECTION DETAIL

N.T.S.



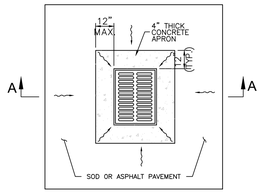
9 ROOF LEADER DOWNSPOUT MANIFOLD DETAIL

N.T.S.



SECTION "A - A"

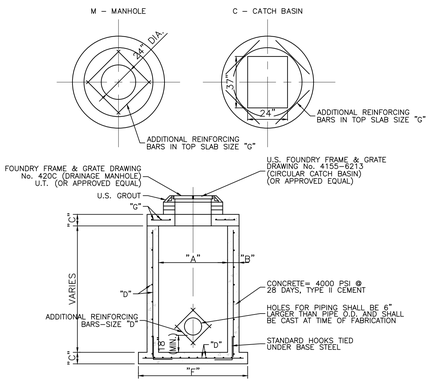
NOTES:
INLET REFLECTED ABOVE, SAME REQUIREMENTS APPLY TO 'CONCRETE COLLAR' FOR STORM MANHOLES IN GREEN AREA.



PLAN

CONCRETE APRON/COLLAR

N.T.S.

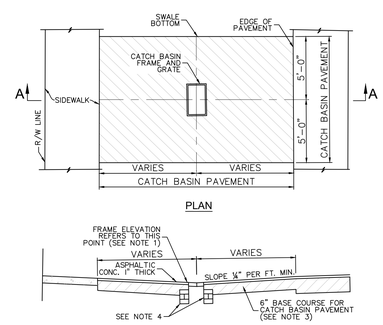


SECTION

MANHOLE	CATCH BASIN	"A"	"B"	"C"	"D"	"E" (GRADE 40 OR EQ.)	"F"	"G" (GRADE 40 OR EQ.)
M4	C4	4'-0"	6"	8"	ASTM C-478	#4 @ 12" C.C.E.W.	6'-0" DIA	#4 @ 6" C.C.E.W.
M5	C5	5'-0"	8"	8"	ASTM C-478	#5 @ 12" C.C.E.W.	7'-4" DIA	#5 @ 8" C.C.E.W.
M6	C6	6'-0"	8"	8"	ASTM C-478	#5 @ 6" C.C.E.W.	8'-4" DIA	#5 @ 6" C.C.E.W.
M7	C7	7'-0"	8"	8"	ASTM C-478	#5 @ 6" C.C.E.W.	9'-4" DIA	#5 @ 6" C.C.E.W.
M8	C8	8'-0"	10"	10"	ASTM C-478	#5 @ 6" C.C.E.W.	10'-8" DIA	#6 @ 6" C.C.E.W.
M10	C10	10'-0"	12"	12"	ASTM C-478	#5 @ 6" C.C.E.W.	12'-0" SQ	#6 @ 6" C.C.E.W.

PRECAST CIRCULAR CATCH BASIN AND MANHOLE DETAIL

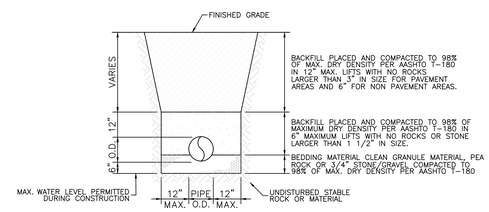
N.T.S.



NOTES:
1. FRAME ELEVATION SHALL BE AT LEAST 3" BELOW SWALE GRADE ELEVATIONS AS SHOWN ON DETAILS R-11 THRU R-81.
2. FRAME ELEVATION SHALL BE AT LOW POINT OF CATCH BASIN PAVEMENT.
3. 6" CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY PUBLIC WORKS DEPARTMENT.
4. A SMOOTH LINE OF MORTAR ½" THICK INSIDE AND OUTSIDE.

CATCH BASIN PAVEMENT

N.T.S.



NOTES:
1. WHERE SOILS SIDE SLOPE CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
2. WHERE REQUIRED SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
3. MUCK OR OTHER UNSUITABLE MATERIAL WITHIN TRENCH LIMITS SHALL BE COMPLETELY REMOVED AND/OR TO A MINIMUM OF 2 FEET BELOW THE PIPE AND REPLACED WITH CLEAN GRANULE MATERIAL-3/4" ROCK (CLASS 1).
4. WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT. WHERE NECESSARY, COURSE SAND, PEA ROCK OR 3/4" LIMESTONE/GRAVEL SHALL BE USED TO PROVIDE UNIFORM BEDDING.
5. JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE DISCRETION OF THE ENGINEER, IF WARRANTED PER UNDERLYING AND THE SOILS CONDITIONS.
6. BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLASTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONSIST OF SAND AND GRAVEL. NO ROCKS OR STONES LARGER THAN 1 1/2" IN DIAMETER. ROCKS OR STONES NO LARGER THAN ¼" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
7. TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD REQUIRED BY MEMORIAL HEALTHCARE SYSTEMS, IF MORE RESTRICTIVE THAN ABOVE CRITERIA.

TRENCH EXCAVATION DETAIL

N.T.S.

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ML PROJECT No. 21-00060

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FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
DRAINAGE DETAILS

SHEET NO.
C7.1

NOTE: GC IS RESPONSIBLE TO **SHARE & COORDINATE COMPLETE SET WITH ALL SUBCONSULATANTS**.

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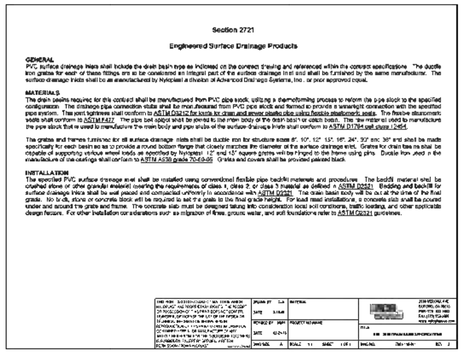


Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin pipe as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

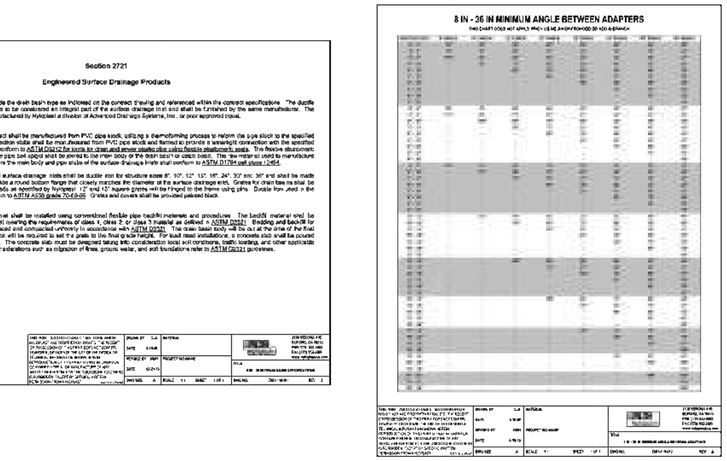
MATERIALS

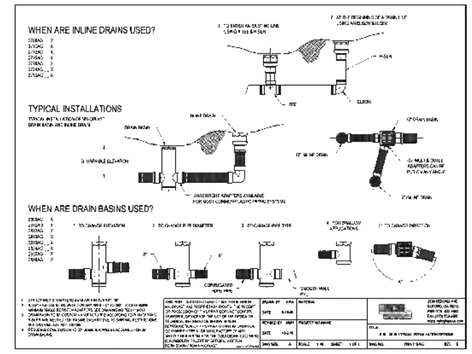
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be machined from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. The joint tightness shall conform to ASTM D3212 for bells for drain and sewer gravity pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be glued to the inner body of the drain basin for plastic bells. The raw material used by manufacturer the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

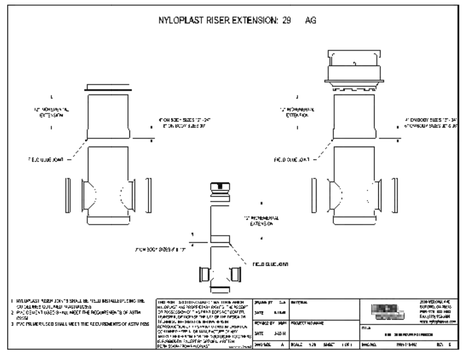
The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain fits no shall be capable of supporting vehicle wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

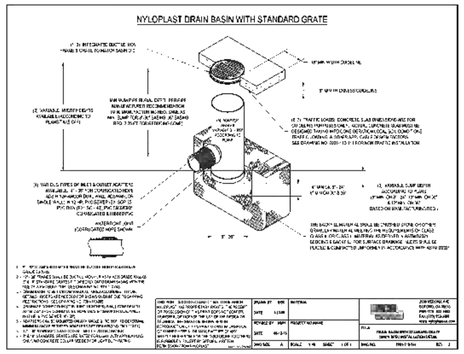
INSTALLATION

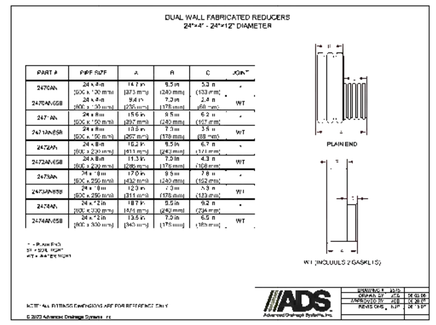
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load road installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation conditions such as migration of fines, groundwater, and soft foundations refer to ASTM D2321 guidelines.











PART #	PART DESC	A	B	C	JOINT
24T04AN	24 x 4 in (300 x 100 mm)	14.7 in (373 mm)	6.5 in (240 mm)	5.3 in (133 mm)	*
24T04AN-05B	24 x 4 in (600 x 100 mm)	9.4 in (238 mm)	7.3 in (178 mm)	2.8 in (68 mm)	WT
24T 06AN	24 x 6 in (600 x 150 mm)	15.6 in (397 mm)	6.5 in (240 mm)	6.0 in (152 mm)	*
24T 06AN-05B	24 x 6 in (600 x 150 mm)	10.7 in (272 mm)	7.3 in (178 mm)	3.7 in (93 mm)	WT
24T08AN	24 x 8 in (600 x 200 mm)	18.0 in (457 mm)	6.5 in (240 mm)	6.7 in (170 mm)	*
24T08AN-05B	24 x 8 in (600 x 200 mm)	11.3 in (286 mm)	7.3 in (178 mm)	4.3 in (108 mm)	WT
24T10AN	24 x 10 in (600 x 250 mm)	17.0 in (432 mm)	6.5 in (240 mm)	7.5 in (192 mm)	*
24T10AN-05B	24 x 10 in (600 x 250 mm)	12.3 in (311 mm)	7.3 in (178 mm)	5.3 in (133 mm)	WT
24T12AN	24 x 12 in (600 x 300 mm)	18.7 in (474 mm)	6.5 in (240 mm)	9.2 in (234 mm)	*
24T12AN-05B	24 x 12 in (600 x 300 mm)	13.6 in (345 mm)	7.3 in (178 mm)	6.5 in (165 mm)	WT

WT (INCLUDES 2 GASKETS)

ACTUAL DIMENSIONS ARE FOR REFERENCE ONLY

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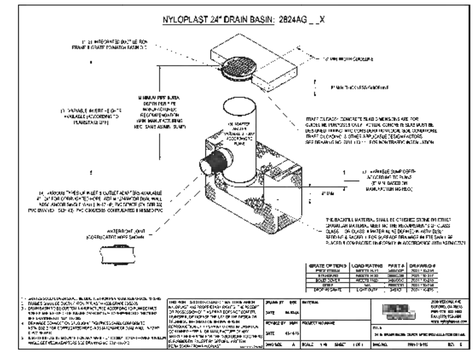

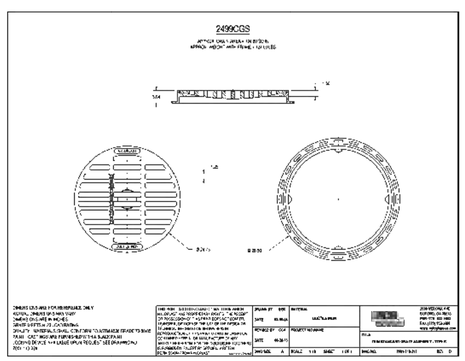

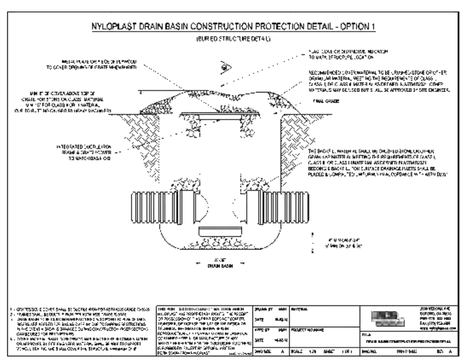

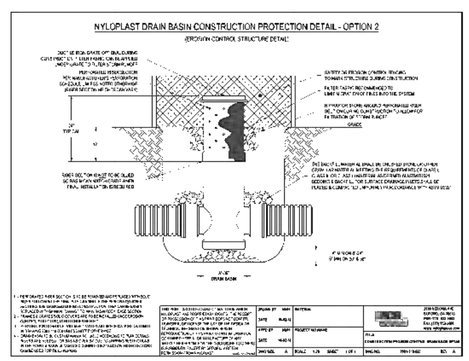

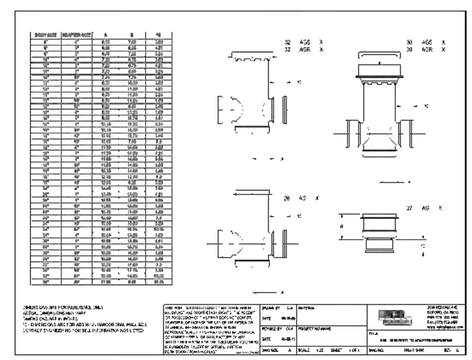

CONTRACTOR MAY PROVIDE ADS OR EQUIVALENT

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APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NAME
DRAINAGE DETAILS

SHEET NO.
C7.2

NOTE: GC IS RESPONSIBLE TO **SHARE & COORDINATE COMPLETE SET WITH ALL SUBCONSULATANTS**.

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GENERAL NOTES:

1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES ENGINEERING AND CONSTRUCTION SERVICES DIVISION (ECSD), AND ALL OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE.
3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS; AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND/OR THE ORIGINAL SITE SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES TO ARRANGE FOR THE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT, AND TO ENSURE THAT EXISTING UTILITIES ARE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE BY THE UTILITY OWNER.
6. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND-HOLES, PULL-BOXES, STORMWATER INLETS, AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAID WITH ASPHALT PAVEMENT.
7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL NOTIFY ECSD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBMITTED TO ECSD IN ACCORDANCE WITH THE CONTRACT DOCUMENTS REQUIREMENTS, FOR APPROVAL. IN ADDITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF REQUIRED.
10. THE CONTRACTOR SHALL NOTIFY ECSD IMMEDIATELY FOR ANY CONFLICT ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
11. ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — GENERAL NOTES — G-00

GENERAL NOTES (CONTINUED):

12. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING / STORAGE AREA. CONTRACTOR SHALL SECURE STAGING / STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
13. CONTRACTOR SHALL HAUL AWAY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.
14. CONTRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED BY THE ENGINEER.
15. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS.
16. THE CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY.
17. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, INCLUDE COST IN OTHER ITEMS.
18. ALL ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE ECSD UNLESS OTHERWISE NOTED ON THE DRAWINGS.
19. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, PARKING LOTS, SIDEWALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY ECSD FIELD ENGINEER.
20. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
22. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.
23. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARDS AND CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.
24. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE ECSD FIELD ENGINEER.
25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
26. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS / REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ECSD.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — GENERAL NOTES (CONTINUED) — G-00.1

GENERAL NOTES (CONTINUED):

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC. WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC. PRIOR TO BEGINNING WORK IN ANY AREA.
28. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES WHEN THE CONTRACTOR IS NOT WORKING UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN / VEHICULAR TRAFFIC.
30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR APPROVED.
32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST EDITION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOBSITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
36. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED.
37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — GENERAL NOTES (CONTINUED) — G-00.2

GENERAL NOTES (CONTINUED):

40. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-432-4770 (SUNSHINE ONE CALL OF FLORIDA).

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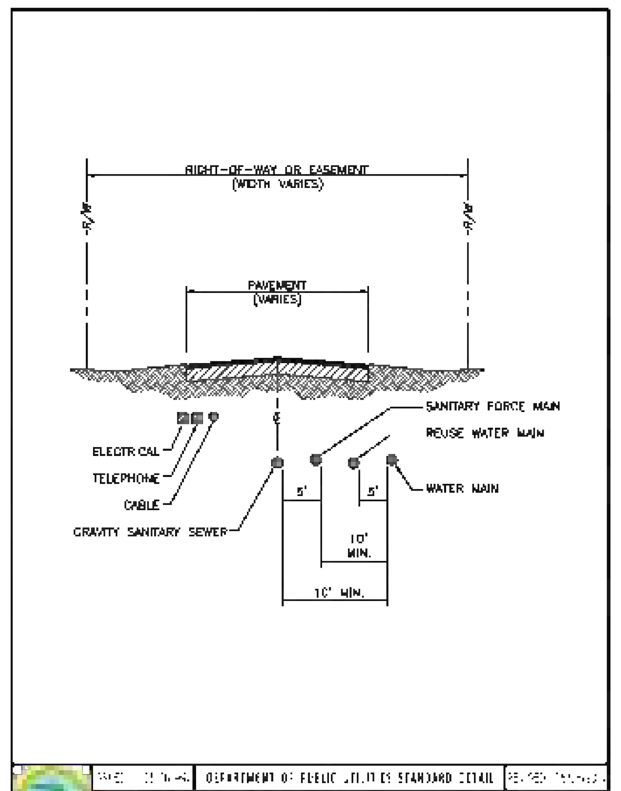
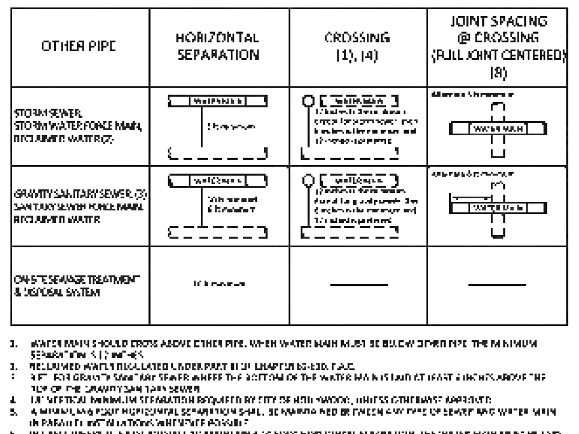
41. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 18" ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS BURIED PIPE BELOW. THE TAPE SHALL BE MAGNA TEC, AS MANUFACTURED BY THOR ENTERPRISES INC. OR APPROVED EQUAL.
42. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER CONNECTIONS SHALL BE METERED, AND THE COST OF WATER AND TEMPORARY METER SHALL BE BORNE BY THE CONTRACTOR.
43. A COMPLETE AS-BUILT SURVEY SHALL BE ACCURATELY RECORDED OF THE UTILITY SYSTEM DURING CONSTRUCTION. AS-BUILT SURVEY SHALL BE SUBMITTED TO ECSD SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PROJECT. THE COST OF SIGNED AND SEALED AS-BUILTS SHALL BE COVERED IN OVERALL BID. THE AS-BUILT SURVEY SHALL INCLUDE:
   a. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, FITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE.
   c. THE PLAN VIEW SHALL ALSO SHOW SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERTS (GRAVITY MAINS) AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG MAIN. THE PLAN VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
   c. THE PLAN VIEW SHALL ALSO SHOW THE HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES IMMEDIATELY ADJACENT OR PARALLEL TO THE NEW MAIN.
   d. PROFILE VIEW WITH SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERT (GRAVITY MAIN) AND OF THE FINISHED GRADE OR MANHOLE RIM DIRECTLY ABOVE THE MAIN AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG THE MAIN. THE PROFILE VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
   e. THE PROFILE VIEW SHALL SHOW ALL UNDERGROUND UTILITIES CROSSING THE NEW MAIN AND THE VERTICAL SEPARATION PROVIDED BETWEEN THAT UNDERGROUND UTILITY AND THE NEW MAIN.
   f. ALL CADD FILES MUST BE CREATED FOLLOWING THE CITY OF HOLLYWOOD "SURVEY / AS-BUILT CAD DRAWING STANDARDS".

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — GENERAL NOTES (CONTINUED) — G-00.3



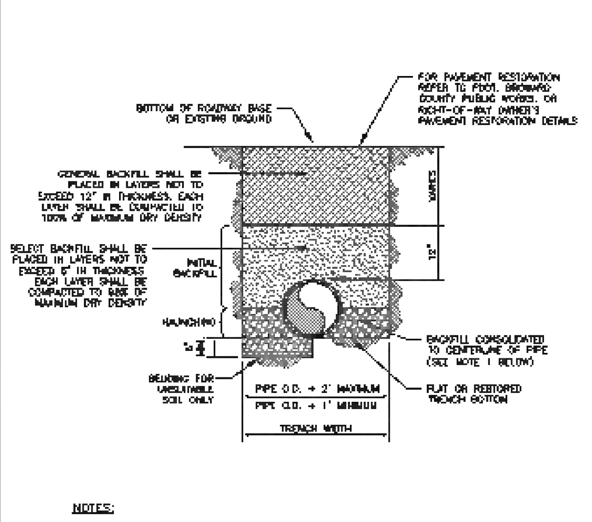
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — TYPICAL UTILITY ACCOMMODATION WITHIN RIGHT OF WAY OR EASEMENT — G-01

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314



1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. 18" VERTICAL MINIMUM SEPARATION REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.
5. A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
8. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.

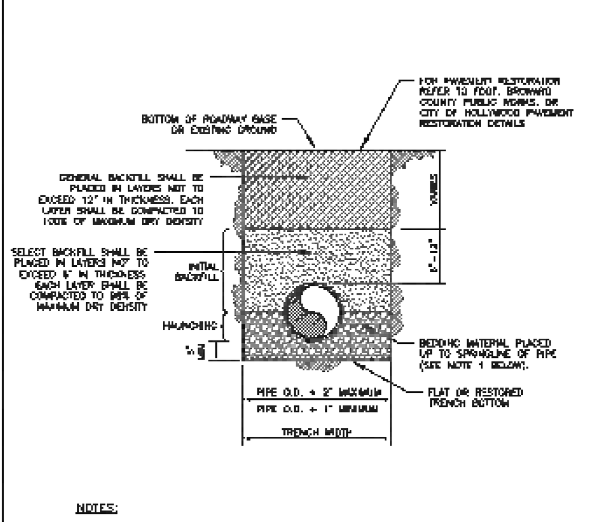
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — SEPARATION REQUIREMENTS OF F.D.E.P. — G-01.1



NOTES:

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR GRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARDS 125-B.

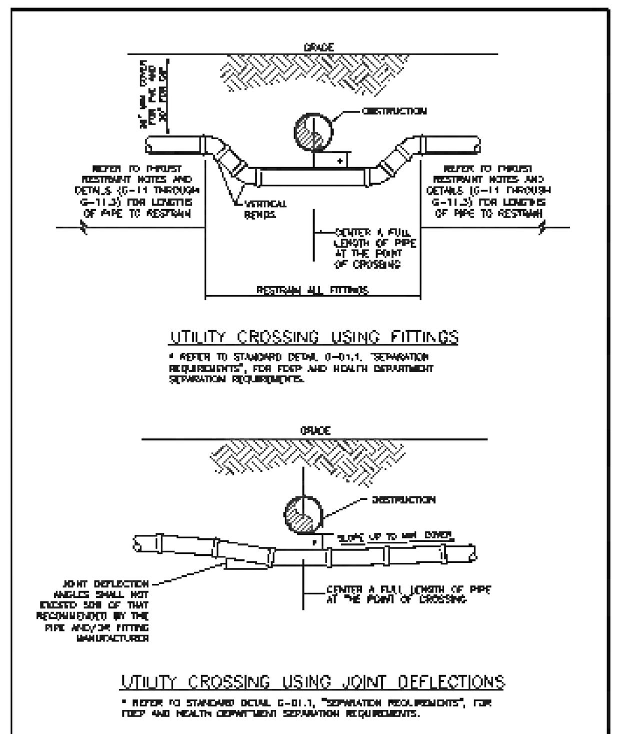
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — PIPE LAYING CONDITION TYPICAL SECTION (D.I.P.) — G-02



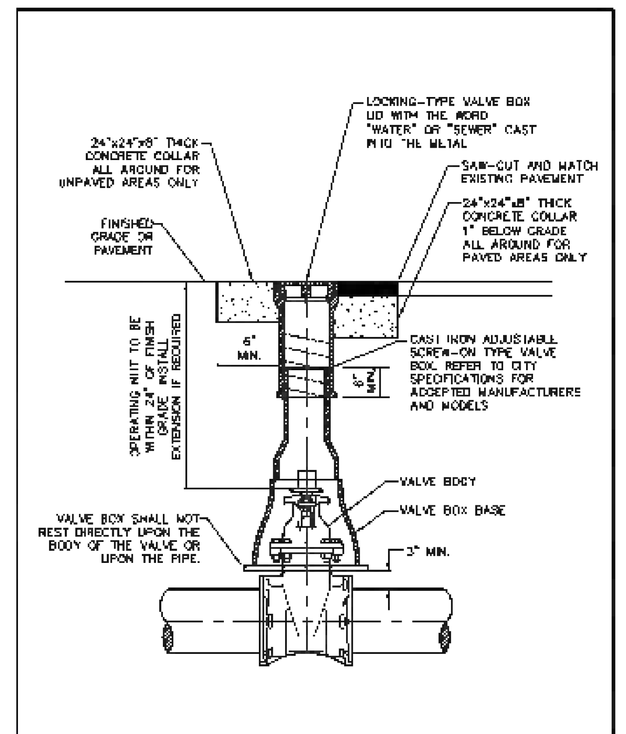
NOTES:

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR GRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125-B.

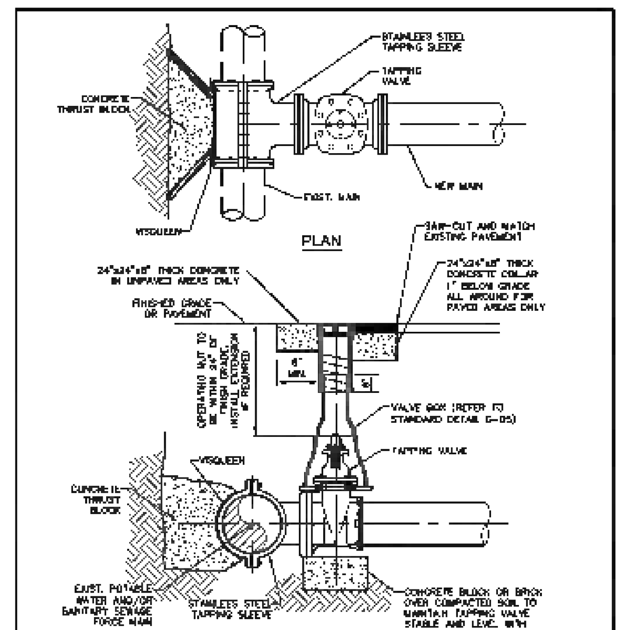
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — PIPE LAYING CONDITION TYPICAL SECTION (P.V.C.) — G-03



DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — UTILITY CROSSING DETAIL — G-04



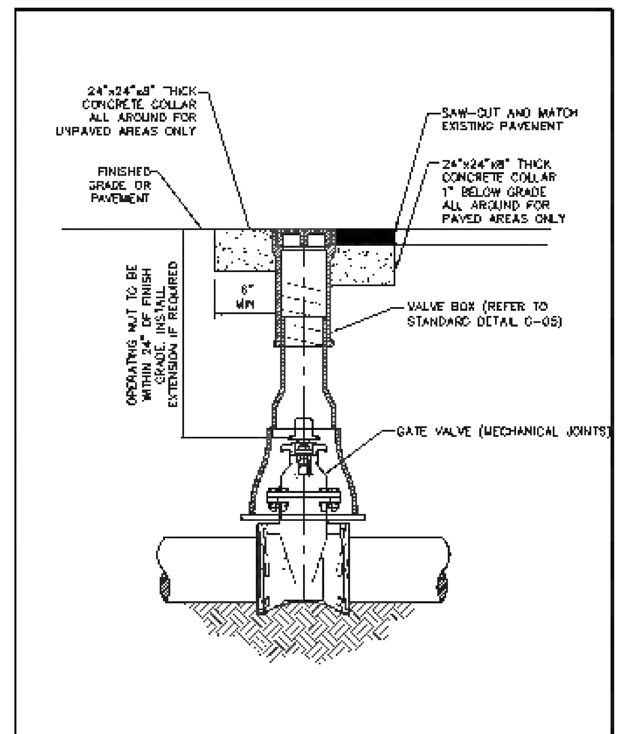
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — TYPICAL VALVE BOX SETTING — G-05



NOTES

1. NOTIFY THE CITY OF HOLLYWOOD 48 HOURS IN ADVANCE OF PROPOSED TAP.
2. TAPPING MUST BE DONE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE.
3. TEMPORARY THRUST BLOCKS TO BE INSTALLED AND REMAIN IN PLACE DURING TAPPING OPERATIONS.
4. FOR SEWAGE FORCE MAINS, REFER TO DETAIL OF PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE.
5. FOR WATER MAINS, A GATE VALVE OF SAME DIAMETER SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE TAPPING VALVE.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — TYPICAL TAPPING SLEEVE AND VALVE SETTING — G-06



DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — TYPICAL GATE VALVE AND VALVE BOX SETTING — G-07

RESILIENT SEATED GATE VALVE SPECIFICATIONS:

4" THROUGH 12" SIZE
(WATER AND FORCE MAIN)

1. GATE VALVES SHALL BE RESILIENT SEATED, MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF AWWA C509 (LATEST REVISION) AND IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.

1.1. VALVES SHALL HAVE AN UNOBSTRUCTED WATERWAY EQUAL TO OR GREATER THAN THE FULL NOMINAL DIAMETER OF THE VALVE.

1.2. THE VALVES ARE TO BE NON-RISING STEM WITH THE STEM MADE OF CAST, FORGED OR ROLLED BRONZE SHOWN IN AWWA C509. TWO STEM SEALS SHALL BE PROVIDED AND SHALL BE OF THE O RING TYPE, ONE ABOVE AND ONE BELOW THE THRUST COLLAR WITH LUBRICANT BETWEEN O-RING.

1.3. THE STEM NUT, ALSO MADE OF BRONZE, MAY BE INDEPENDENT OF THE GATE OR CAST INTEGRALLY WITH THE GATE. IF THE STEM NUT IS CAST INTEGRALLY, THE THREADS SHALL BE STRAIGHT AND TRUE WITH THE AXIS OF THE STEM TO AVOID BINDING DURING THE OPENING OR CLOSING CYCLE.

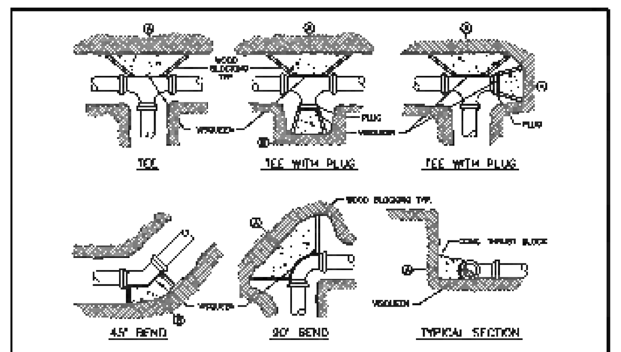
1.4. THE SEALING MECHANISM SHALL CONSISTS OF A CAST IRON GATE HAVING A VULCANIZED SYNTHETIC RUBBER COATING OR A RUBBER SEAT MECHANICALLY RETAINED ON THE GATE. THE RESILIENT SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATER WORKING PRESSURE WHEN INSTALLED WITH THE LINE FLOW IN EITHER DIRECTION.

1.5. A 2-INCH SQUARE WRENCH NUT SHALL BE PROVIDED FOR OPERATING THE VALVE.

1.6. ALL VALVES ARE TO BE SUPPLIED COMPLETE AND READY FOR INSTALLATION INCLUDING, BUT NOT LIMITED TO ALL NUTS, BOLTS RINGS AND RUBBERS.

1.7. ALL VALVES ARE TO BE TESTED IN STRICT ACCORDANCE WITH AWWA C509 LATEST REVISION.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — RESILIENT SEATED GATE VALVE SPECIFICATIONS — G-07.1



MINIMUM CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL (SQ. FT.)

MARK	PIPE SIZE 4" OR 6"	8"	10"	12"
A				
B				

NOTES:

1. THRUST BLOCKS ARE TO BE USED IN COMBINATION WITH, AND NOT IN LIEU OF, MECHANICAL JOINT RESTRAINTS AS REQUIRED BY THE CITY. REFER TO THRUST RESTRAINT DESIGN TABLE IN STANDARD DETAIL G-10.
2. THE AREAS IN THE TABLE ARE BASED ON _____ POUNDS PER SQUARE FOOT SOIL BEARING AGAINST THE UNDISTURBED TRENCH WALL AND ARE TO REPRESENT THE MINIMUM VERTICAL PROJECTED AREA AT THE THRUST BLOCK IN A PLANE PERPENDICULAR TO THE LINE BISECTING THE INCLUDING ANGLE OF THE FITTING.
3. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
4. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
5. DO NOT COVER COUPLING OR JOINTS WITH CONCRETE.
6. CONCRETE TO BE 2500 P.S.I. MINIMUM 28 DAY STRENGTH.
7. TABLE TO BE COMPLETED BY DESIGN ENGINEER.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — THRUST BLOCK DESIGN — G-10

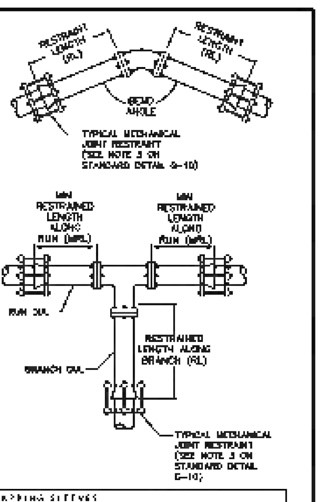
THRUST RESTRAINT NOTES:

1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. OR P.V.C. PIPE SHALL BE MEGA-LUG AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
3. DUCTILE IRON FITTINGS UP TO 20-INCHES IN DIAMETER SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGA-LUGS OR APPROVED EQUAL.
4. DUCTILE IRON FITTINGS 24-INCH IN DIAMETER AND ABOVE SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGA-LUGS OR APPROVED EQUAL, WITH THE ADDITION OF THRUST BLOCKS AND CONCRETE ANCHORS AT THE DISCRETION OF THE ENGINEER OF RECORD.
5. ANY THRUST BLOCKS AND ANCHORS ARE TO BE DESIGNED BY THE ENGINEER OF RECORD. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.
6. THRUST BLOCKS CONSISTING OF POURED IN PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AFTER 28 DAYS.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — JOINT RESTRAINT DESIGN FOR PVC AND DIP THRUST RESTRAINT NOTES — G-11

HORIZONTAL BENDS

PIPE DIA. (INCHES)	BEND (ANGLE)	RESTRAINED LENGTH (RL) (FT) PVC	*DIP
24	11¼		
	22½		
	45		
	90		
16	11¼		
	22½		
	45		
	90		
12	11¼		
	22½		
	45		
	90		
8	11¼		
	22½		
	45		
	90		
6	11¼		
	22½		
	45		
	90		
4	11¼		
	22½		
	45		
	90		

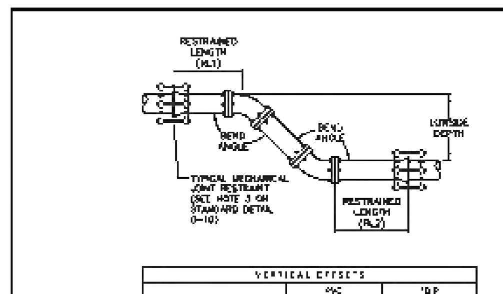


TEES AND TAPPING SLEEVES

RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG RUN (FT)	MINIMUM RESTRAINED LENGTH ALONG BRANCH (FT) PVC	*DIP	RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG RUN (FT)	MIN. RESTRAINED LENGTH ALONG BRANCH (FT) PVC	*DIP
24"	24"				12"	12"			
	16"					8"			
	12"					6"			
	8"					4"			
	6"				8"	8"			
	4"					6"			
16"	16"					4"			
	12"				6"	6"			
	8"					4"			
	6"				4"	4"			
	4"								

*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — JOINT RESTRAINT DESIGN FOR PVC AND DIP HORIZONTAL BENDS AND TEES — G-11.1

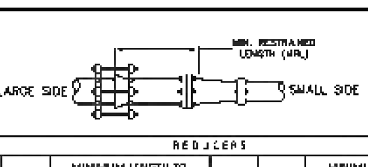


VERTICAL OFFSETS

PIPE DIA. (INCHES)	BEND (ANGLE)	LOWSIDE DEPTH (FT)	PVC RESTRAINED LENGTH RL1 (FT)	PVC RL2 (FT)	*DIP RESTRAINED LENGTH RL1 (FT)	*DIP RL2 (FT)
24	45	4				
		5				
		6				
		7				
16	45	4				
		5				
		6				
		7				
12	45	4				
		5				
		6				
		7				
8	45	4				
		5				
		6				
		7				
6	45	4				
		5				
		6				
		7				
4	45	4				
		5				
		6				
		7				

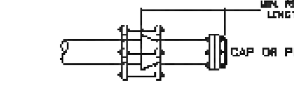
*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — JOINT RESTRAINT DESIGN FOR PVC AND DIP VERTICAL OFFSETS — G-11.2



REDUCERS

LARGE SIDE	SMALL SIDE	MINIMUM LENGTH TO RESTRAIN ON LARGE SIDE (FT) PVC	*DIP	LARGE SIDE	SMALL SIDE	MINIMUM LENGTH TO RESTRAIN ON LARGE SIDE (FT) PVC	*DIP
24"	16"			12"	8"		
	12"				6"		
	8"				4"		
	6"			8"	6"		
	4"				4"		
16"	12"			6"	4"		
	8"				2"		
	6"			4"	2"		
	4"						



DEAD ENDS

PIPE DIA. (INCHES)	MIN. RESTRAINED LENGTH (FT) PVC	*DIP
24"		
16"		
12"		
8"		
6"		
4"		

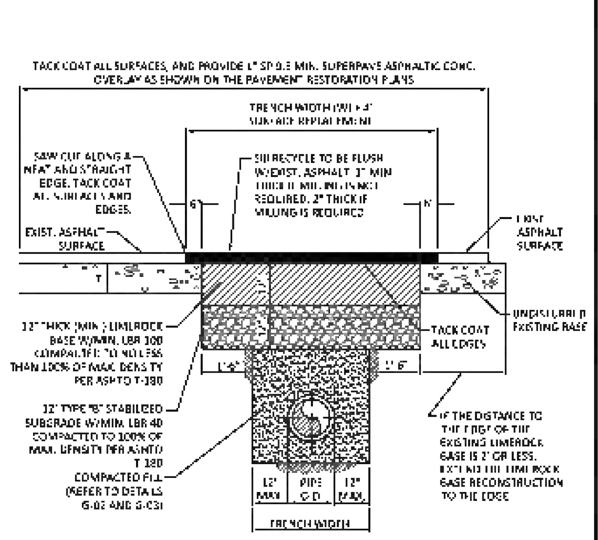
*ALL DIP JOINT-RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — JOINT RESTRAINT DESIGN FOR PVC AND DIP REDUCERS AND DEAD ENDS — G-11.3

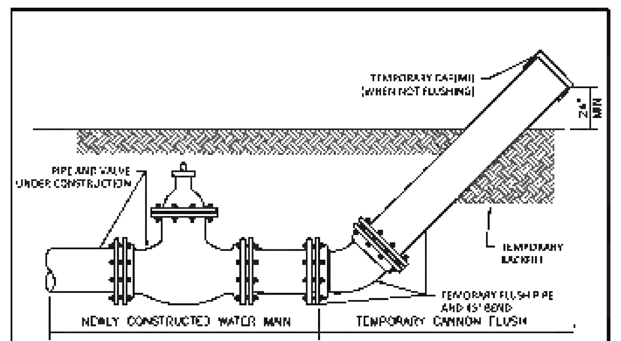
FLEXIBLE PAVEMENT RESTORATION NOTES:

1. THE ABOVE DETAILS APPLY ONLY TO ASPHALT PAVEMENT RESTORATION OVER UTILITY TRENCHES CUT WITHIN CITY OF HOLLYWOOD RIGHTS-OF-WAY. FOR PAVEMENT RESTORATION WITHIN BROWARD COUNTY OR FDOT RIGHTS-OF-WAY REFER TO THE CORRESPONDING DETAILS FOR THOSE AGENCIES.
2. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%. REPLACED BASE MATERIAL OVER TRENCH SHALL BE A MINIMUM OF 12" THICK.
3. LIMEROCK BASE MATERIAL SHALL BE PLACED IN 12" MAXIMUM (LOOSE MEASUREMENT) THICKNESS LAYERS WITH EACH LAYER THOROUGHLY ROLLED OR TAMPED AND COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-180, PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
4. STABILIZED SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM L.B.R. OF 40.
5. BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PIPE LAYING CONDITION TYPICAL SECTIONS IN DETAILS G-02 AND G-03, AND THE SPECIFICATIONS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
6. ALL EDGES AND JOINTS OF EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT TO STRAIGHT LINES, PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFACING.
7. RESURFACING MATERIAL SHALL BE FDOT SUPERPAVE, AND SHALL BE APPLIED A MINIMUM OF TWO INCH IN THICKNESS.
8. MILL AND BUTT JOINT TO EXISTING PAVEMENT.
9. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.
10. REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.
11. WHERE THE UTILITY TRENCH CROSSES EXISTING ASPHALT DRIVEWAYS, THE LIMEROCK BASE THICKNESS MAY BE A MINIMUM OF 6 INCHES THICK. REGARDLESS OF THE EXTENT OF IMPACT, THE ENTIRE DRIVEWAY SURFACE BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND PROPERTY LINE OR FRONT OF SIDEWALK SHALL BE OVERLAID USING 1 INCH THICK MINIMUM ASPHALTIC CONCRETE SURFACE COURSE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE CITY/ENGINEER.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — FLEXIBLE PAVEMENT RESTORATION NOTES — G-12



DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — FLEXIBLE PAVEMENT RESTORATION FOR TRENCHES CUT PERPENDICULAR AND PARALLEL TO THE ROADWAY — G-12.1



GENERAL NOTES:

1. FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ECSD.
2. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAIN SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
3. INSTALL A TEMPORARY 45° BEND AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
4. BENDS AND PIPING SHALL BE THE SAME SIZE OR LARGER AS THE LINE BEING FLUSHED.
5. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION THE CONTRACTOR SHALL PROPERLY NOTIFY ECSD INSPECTOR OF SIX HOURS IN ADVANCE.
6. NO EXISTING VALVE SHALL BE OPERATED, EXCEPT BY AUTHORIZED CITY PERSONNEL.
7. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE ECSD INSPECTOR.
8. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
9. ALL PIPING SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH CITY STANDARDS.
10. IF REQUIRED BY ECSD, WATER SHALL WAINS SHALL BE CLEANED BY PIGGING.
11. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.
12. CONTRACTOR IS CAUTIONED THAT GOVERNING AGENCIES OR UTILITIES MAY HAVE REGULATIONS LIMITING OR PROHIBITING DISCHARGE INTO SEWERS, SURFACE WATERS, CANALS, DITCHES AND OTHER CONVEYANCES/RETENTION AREA. ALL COMPLIANCE WITH GOVERNING AGENCIES REQUIREMENTS (INCLUDING PERMITTING, IF REQUIRED) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. CANNON FLUSHING TO PROCEED AFTER HEALTH DEPARTMENT CLEARANCE IS RECEIVED.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — CANNON FLUSHING — G-13

SEWER NOTES:

1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
6. FORCE MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{S \times D \times \sqrt{P}}{148{,}000}$$

WHERE
L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
D = PIPE DIAMETER IN INCHES
S = LENGTH OF LINES IN LINEAR FEET
P = AVERAGE TEST PRESSURE IN PSI

7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREIN.
8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — SANITARY SEWER MAIN CONSTRUCTION NOTES — S-01

This item has been digitally signed and sealed by Peter J. Pellerito, P.E. on the date adjacent to the seal.

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO — LICENSE No. 50063 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
WATER & SEWER DETAILS

SHEET NO.
C7.3

NOTE: GC IS RESPONSIBLE TO **SHARE & COORDINATE COMPLETE SET WITH ALL SUBCONSULATANTS**.

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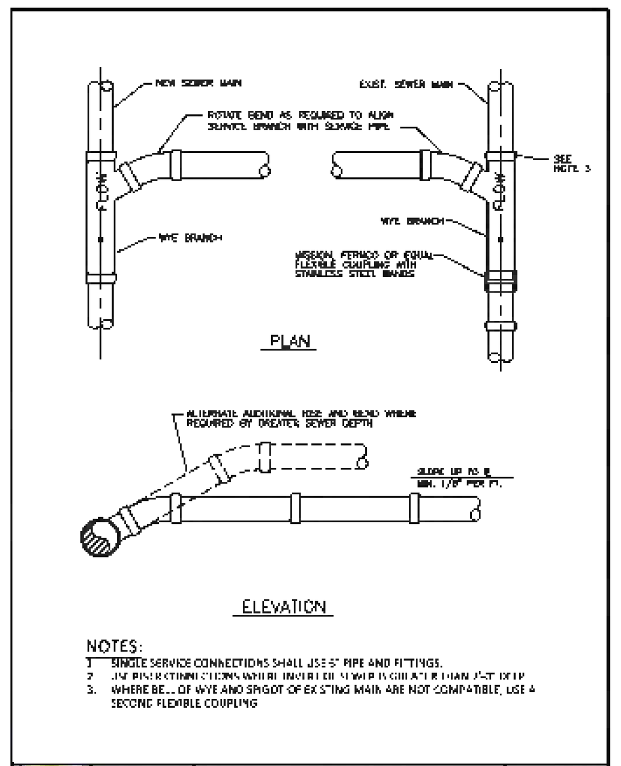
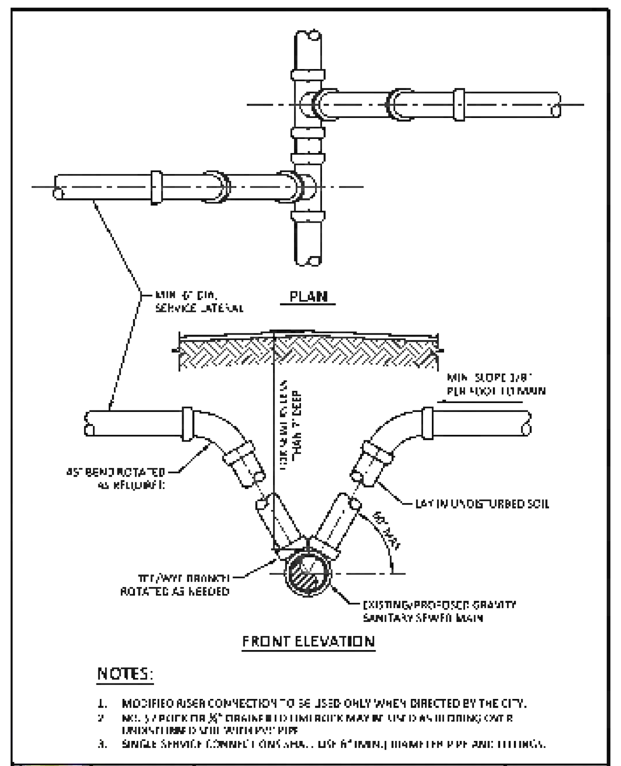
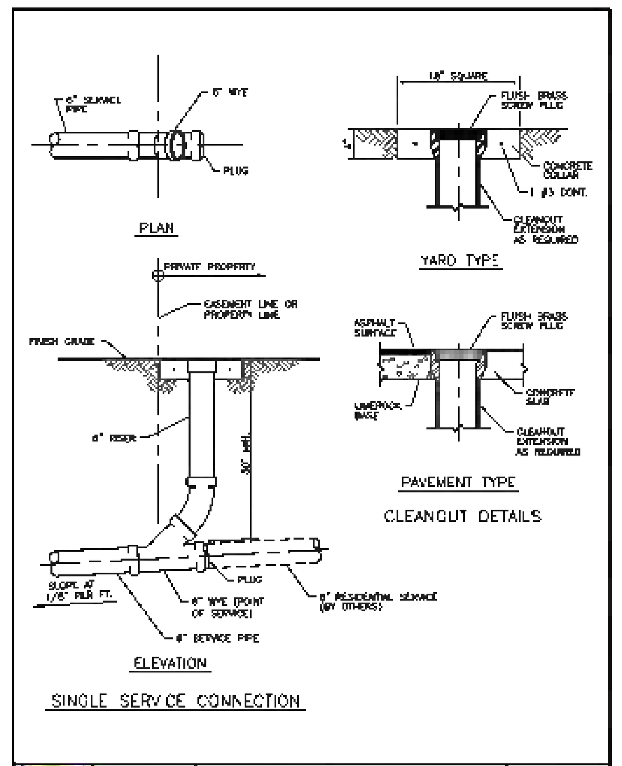


WYE BRANCH CONNECTION — S-09



SANITARY SEWER LATERAL MODIFIED RISER — S-10



SEWER SERVICE CONNECTION AND CLEANOUT AT PROPERTY LINE — S-12

WATER SYSTEM NOTES:

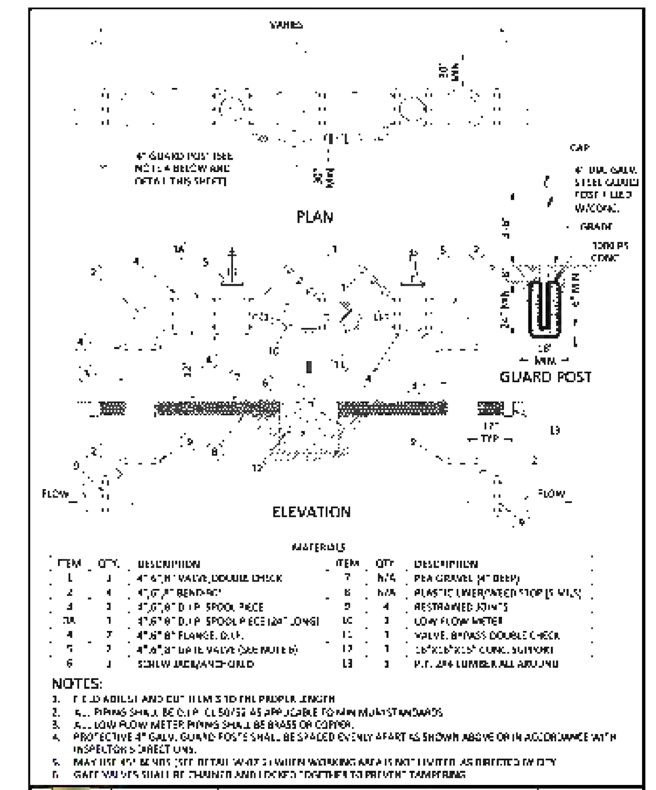
1. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
2. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. (FAC 62-555.314(2)). EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5).
3. AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. (FAC 62-555.314(2)). EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5).
4. NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.
5. POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.
6. THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE TUBING SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.
7. FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEP HOLES SHALL NOT BE COVERED BY THE POLY WRAP.
8. GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO HUNDRED (200) PSI WORKING PRESSURE, NON SHOCK, BLOCK PATTERN, SCREWED BONNET, NON RISING STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A MALLEABLE IRON HANDWHEEL. GATE VALVES 3" THROUGH 16" IN DIAMETER SHALL BE RESILIENT SEAT AND BIDIRECTIONAL FLOW ONLY. VALVES FOR SPECIAL APPLICATIONS WILL REQUIRE CITY UTILITY APPROVAL.
9. VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE 5 INCH (5") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY.
10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — WATER SYSTEM NOTES — W-01

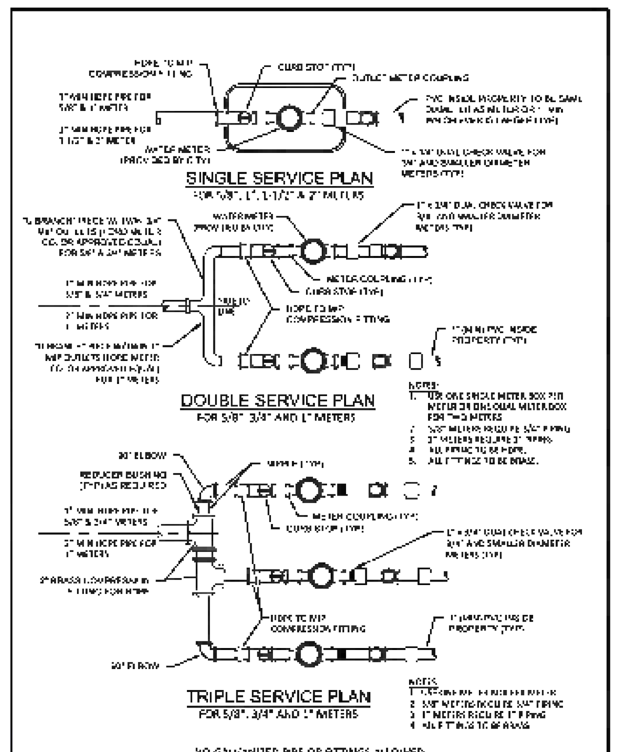
WATER SYSTEM NOTES (CONTINUED):

11. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.
12. ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS DR 18. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS COMPLYING WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.
13. FITTINGS SHALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
14. ALL DUCTILE IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
15. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
16. ALL TRENCHING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE CITY OF HOLLYWOOD SPECIFICATIONS.
17. THE MINIMUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIP) OR 36" (PVC).
18. MINIMUM HORIZONTAL SEPARATION BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 3'.
19. MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURES RECOMMENDATION (MAXIMUM) WHERE DEFLECTION IS REQUIRED.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 18" MINIMUM VERTICAL SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
21. PIPE JOINT RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS MANUFACTURED TO ASTM A 536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING PRESSURE OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2:1, AND SHALL BE EBAA IRON INC., MEGALUG OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE JOINTS (60 FEET) FROM ANY FITTING.
22. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — WATER SYSTEM NOTES — W-02



TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SERVICE (90° BENDS) — W-03



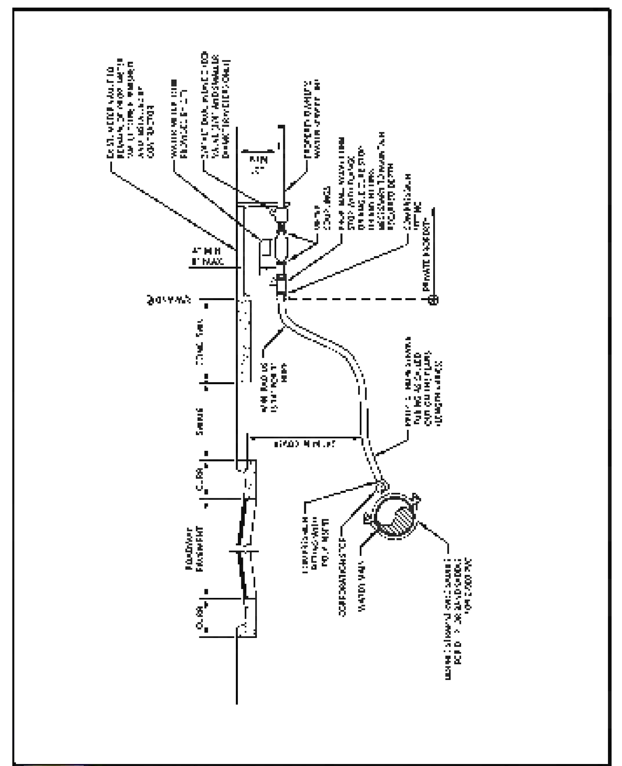
NO GALVANIZED PIPE OR FITTINGS ALLOWED

TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION — W-06

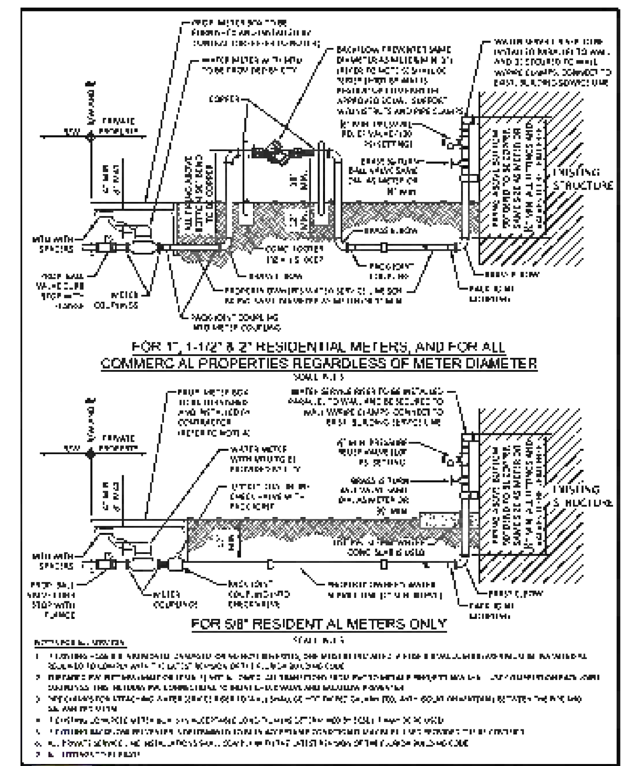
WATER METER SERVICE NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
2. P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901, "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR WATER SERVICE".
3. MINIMUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL 5/8" OR SINGLE 1" DIAMETER METERS.
4. MINIMUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-1/2" OR SINGLE 2" DIAMETER METERS.
5. FOR METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE THE SAME AS THE METER DIAMETER.
6. APPROVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
7. FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF HOLLYWOOD (NEW ACCOUNTS).
8. FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY CONTRACTOR.
9. FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
   a. CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP.
   b. FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP.
10. THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF SIDEWALK, WHENEVER PRACTICAL.
11. AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMS, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACES), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
12. FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

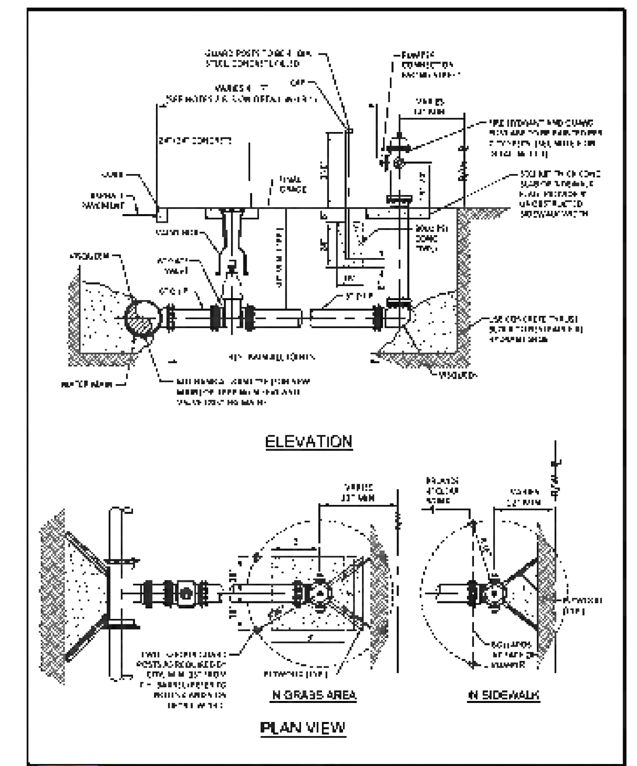
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS — W-07



TYPICAL 1" HDPE WATER SERVICE FOR SINGLE/DUAL 5/8" TO 1" METERS — W-08



TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 5/8" THROUGH 2" METERS — W-10



TYPICAL FIRE HYDRANT INSTALLATION — W-13

NOTES:

1. IN ALL CASES, PROVIDE 4' UNOBSTRUCTED SIDEWALK CLEAR OF THE FIRE HYDRANT AND BOLLARDS.
2. FIRE HYDRANTS SHALL BE LOCATED BETWEEN 4' AND 7' FROM THE FACE OF CURB.
3. FIRE HYDRANTS SHALL NOT BE LOCATED WITHIN A RADIUS OR WITHIN FOOT CLEAR DRIVING ZONE.
4. GUARD POSTS SHALL BE INSTALLED AS REQUIRED FOR SAFETY OR AS APPROVED BY THE DEPT. OF PUBLIC UTILITIES. IN SIDEWALK, LOCATE GUARD POSTS AT THE FACE OF THE PUMPER AND 2' 6" LEFT/RIGHT OF ℄ OF THE FIRE HYDRANT. EXTRA POSTS MAY BE REQUIRED IN INDUSTRIAL AND CONGESTED TRAFFIC AREAS. (4 POSTS MAX.)
5. FIRE HYDRANT CONCRETE SLAB AND CONCRETE GUARD POST FOOTINGS SHALL BE DIFFERENT POURS.
6. THE FIRE HYDRANT BONNET, OPERATING NUT, HOLD-DOWN NUT, PUMPER CAP AND HOSE CAPS SHALL BE PAINTED GREEN, AND THE HYDRANT UPPER BARREL SHALL BE PAINTED SILVER IN ACCORDANCE WITH CITY SPECIFICATIONS.

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — TYPICAL FIRE HYDRANT NOTES — W-13.1

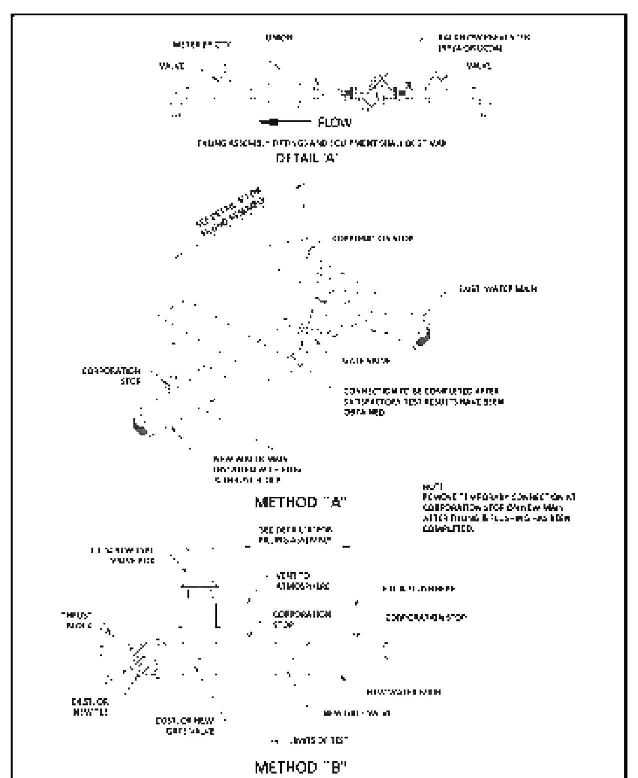
WATER MAIN TESTING AND DISINFECTION NOTES:

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM HAS BEEN APPROVED BY THE CITY OF HOLLYWOOD AND THE BROWARD COUNTY HEALTH DEPARTMENT.
2. THE PRESSURE TEST SHALL BE PERFORMED FOR 2 HOURS AT A CONSTANT PRESSURE OF 150 PSI AND IN ACCORDANCE WITH RULE 62-555.330 (FAC) C600 AWWA LATEST REVISION, EXCEPT AS OTHERWISE SPECIFIED HEREIN AND IN SPECIFICATION SECTION 15/95, "PIPELINE TESTING AND DISINFECTION". PRESSURE TEST SHALL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

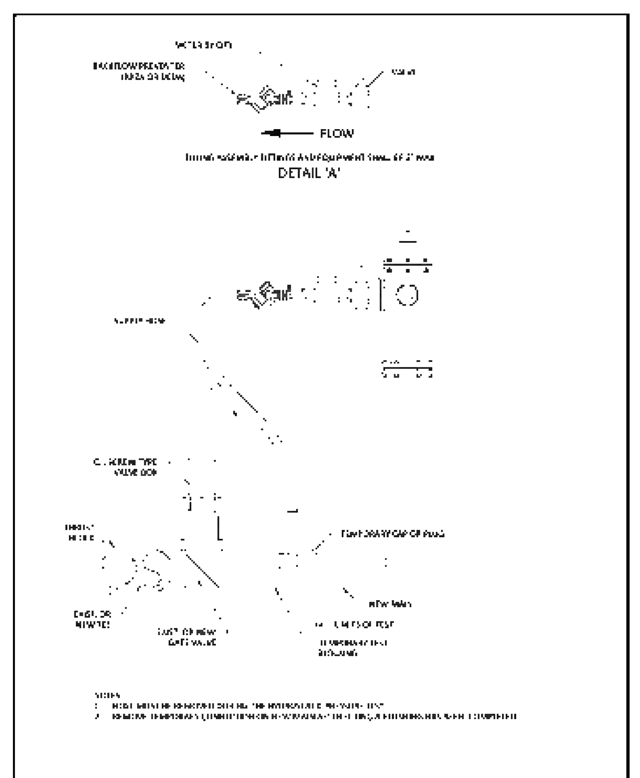
$$L = \frac{S \times D \times \sqrt{P}}{148{,}000}$$

   L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
   S = THE LENGTH OF PIPE BEING TESTED.
   D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
   P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH.
3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED IN LENGTHS NOT TO EXCEED 2,000 FEET PER TEST.
4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AWWA STANDARD C651 AND BACTERIOLOGICAL TESTED FOR TWO CONSECUTIVE DAYS IN ACCORDANCE WITH SPECIFICATION SECTION 15/95, "PIPELINE TESTING AND DISINFECTION".
5. BACTERIOLOGICAL TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL DIRECTLY HIRE A TESTING LABORATORY CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH IN ORDER TO COLLECT AND TEST WATER SAMPLES FROM THE WATER DISTRIBUTION SYSTEM TO BE PLACED INTO SERVICE. SAMPLE COLLECTION AND BACTERIOLOGICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH RULES 62-555.315(6), 62-555.340 AND 62-555.330 (FAC), AS WELL AS ALL REQUIREMENTS OF THE BROWARD COUNTY HEALTH DEPARTMENT PERMIT.
7. THE WATER DISTRIBUTION SYSTEM SHALL NOT BE CONSIDERED COMPLETE AND READY FOR FINAL INSPECTION UNTIL SUCCESSFUL TEST RESULTS ARE OBTAINED FOR ALL TESTS DESCRIBED ABOVE.

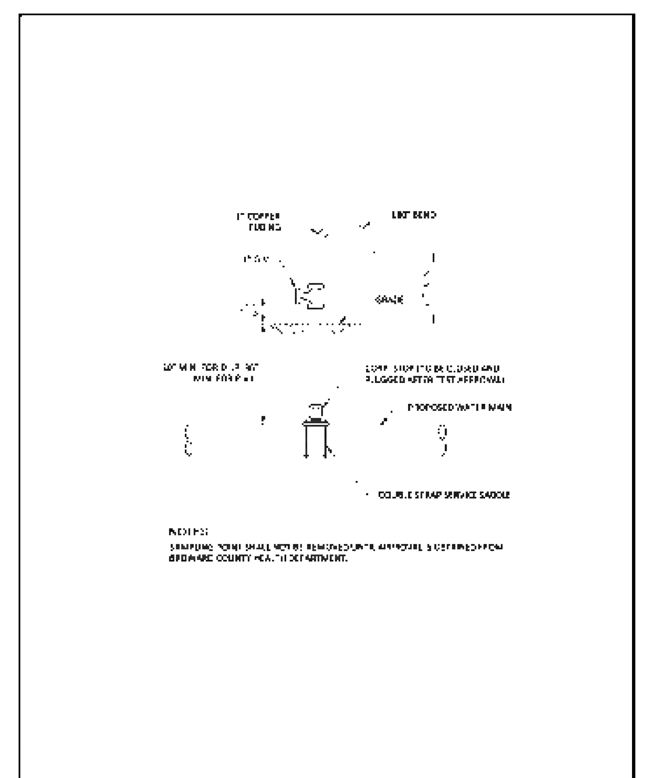
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL — WATER MAIN TESTING AND DISINFECTION NOTES — W-14



FILLING AND FLUSHING DETAILS — W-15



CROSS CONNECTION FILLING AND FLUSHING DETAILS — W-15.1



SAMPLING POINT DETAIL — W-16

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SEAL:

PHASE:
100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

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ML PROJECT No. 21-00060

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FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

SHEET NAME
WATER & SEWER DETAILS

SHEET NO.
C7.4

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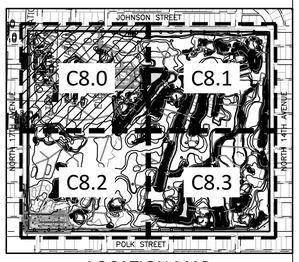
REFER TO SHEET C8.1 FOR CONTINUATION

GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET



LOCATION MAP

SCALE: 1" = 600'

EROSION CONTROL & CONSTRUCTION ENTRANCE NOTES:

1. REFER TO NOTES ON SHEET C1.0

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

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1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.
C8.0

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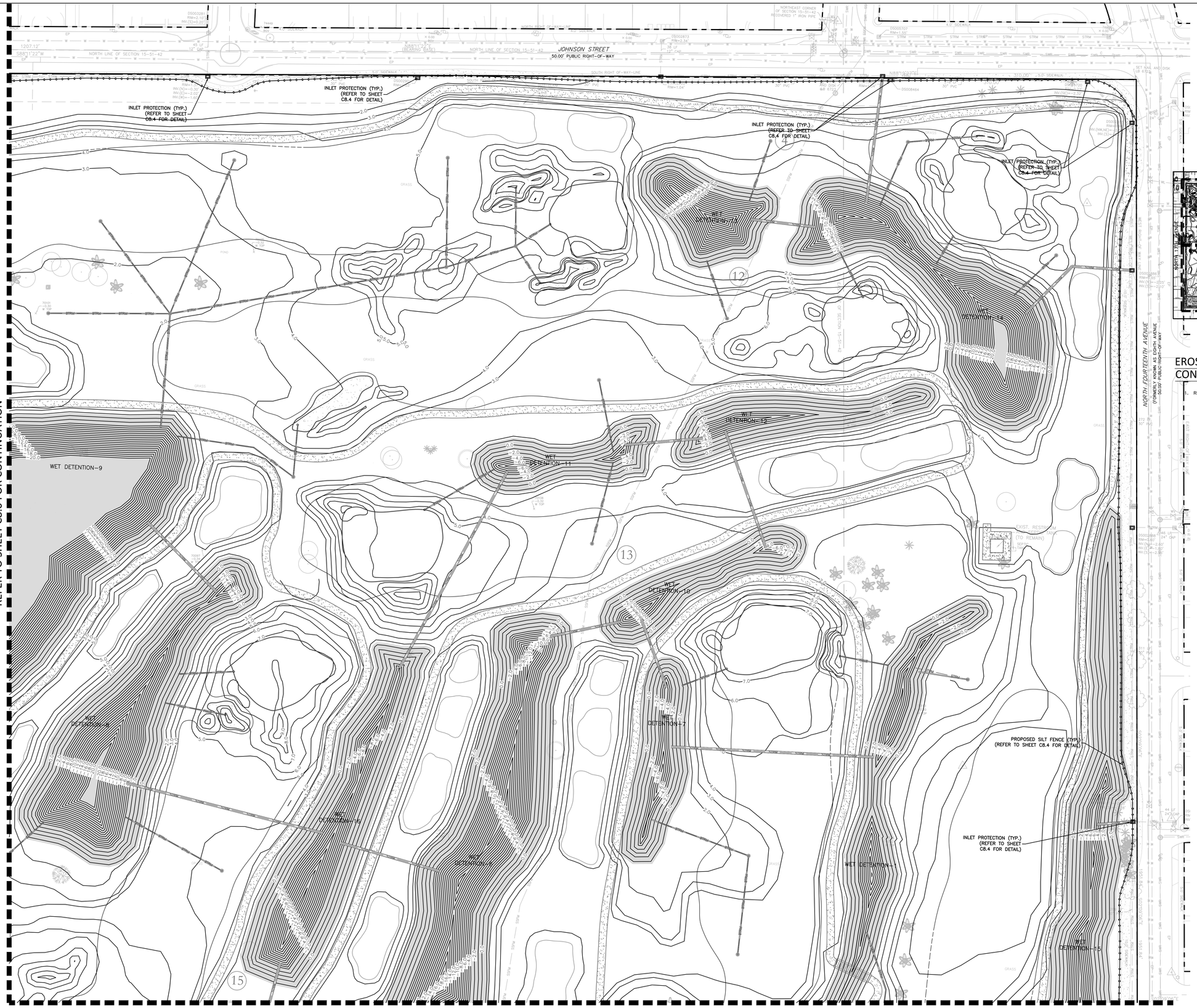
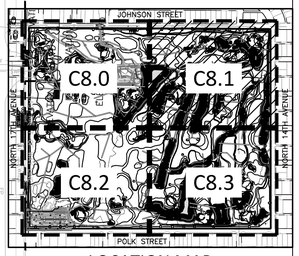


GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET



LOCATION MAP

SCALE: 1" = 600'

EROSION CONTROL & CONSTRUCTION ENTRANCE NOTES:

1. REFER TO NOTES ON SHEET C6.0

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

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707 NE 3rd Ave. Suite. 200
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13680 N.W. 5th Street, Suite 200
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T: (954) 436-7000

FOOD & BEVERAGE:

Camacho
3103 Medlock Bridge road
Norcross, Georgia 30071
T: (770) 582-1144

SEAL:

PHASE:

100% CONSTRUCTION DOCUMENTS

PROJECT NAME:
HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE

PROJECT ADDRESS:
1645 Polk Street
Hollywood, FL 33020

PROJECT NO.:
02141.000

ISSUE DATE:
11/16/2023

REVISIONS:

No.:	DESCRIPTION	DATE:

SHEET NAME
STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.
C8.1

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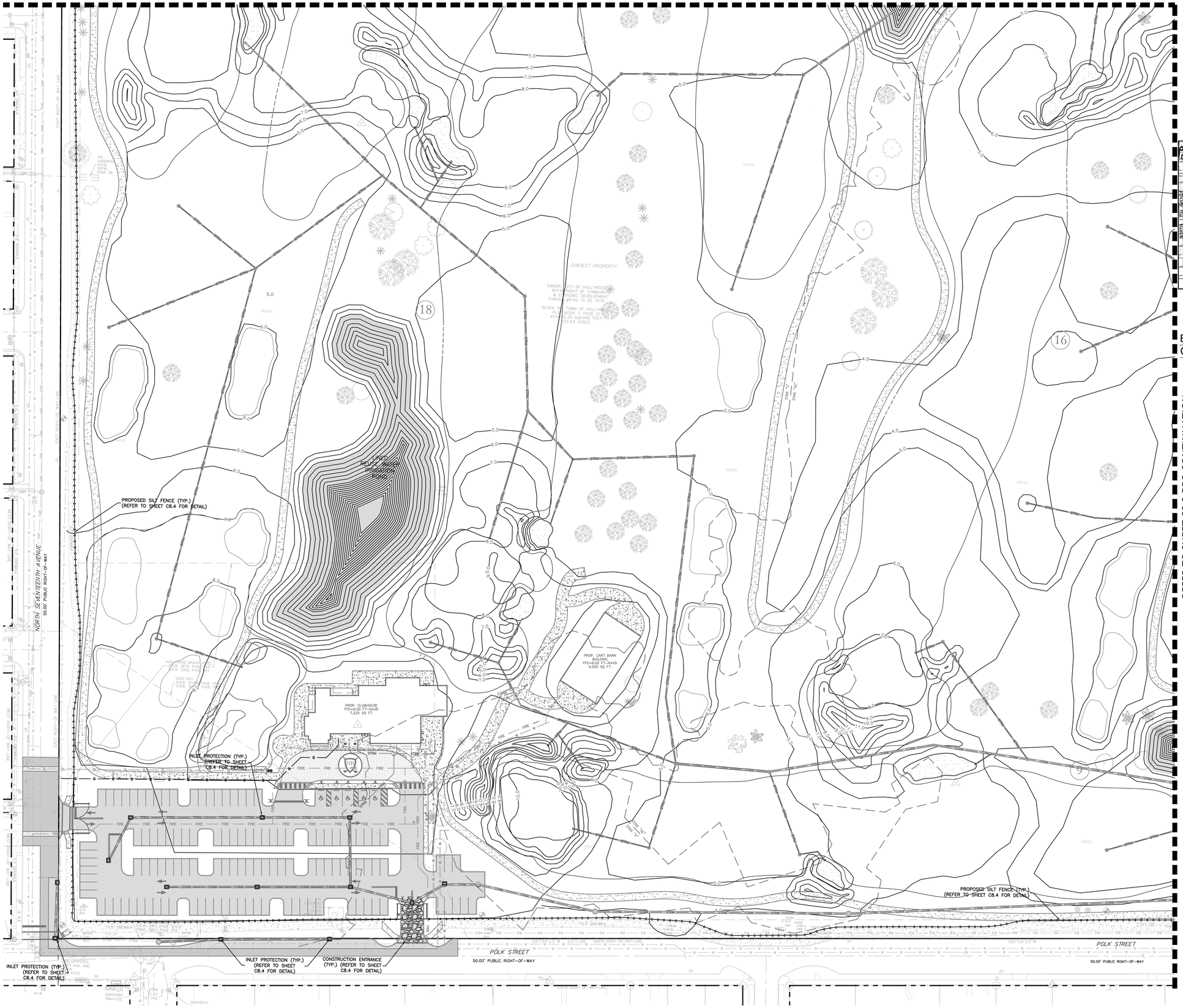
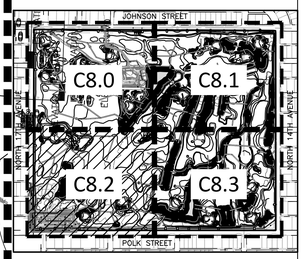
REFER TO SHEET C8.0 FOR CONTINUATION



REFER TO SHEET C8.3 FOR CONTINUATION



LOCATION MAP

SCALE: 1" = 600'

EROSION CONTROL & CONSTRUCTION ENTRANCE NOTES:

1. REFER TO NOTES ON SHEET C6.0

LEGEND:

NOTE: REFER TO MASTER LEGEND C1.1

- PROP. ASPHALT MILL AND RESURFACE
- PROP. NEW ASPHALT PAVEMENT
- PROP. CONC. CART PATH / SIDEWALK
- PROP. PAVEMENT RESTORATION
- PROP. PAVERS

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ML PROJECT No. 21-00060

PETER JOSEPH PELLERITO LICENSE No. 50063 STATE OF FLORIDA PROFESSIONAL ENGINEER

APPROVED : PETER J. PELLERITO, P.E.
FLA. REGISTRATION NO. 50063 DATE : 1/3/2024

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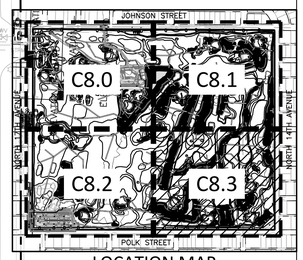
REFER TO SHEET C8.2 FOR CONTINUATION

GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 FEET



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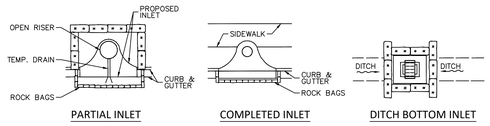
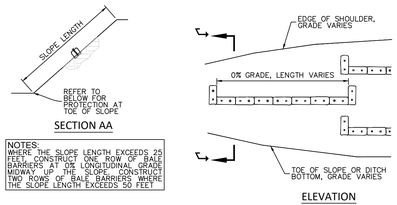




NOTES:
WHERE THE SLOPE LENGTH EXCEEDS 25 FEET, CONSTRUCT ONE ROW OF BALE BARRIERS AT 0% LONGITUDINAL GRADE MIDWAY UP THE SLOPE. CONSTRUCT TWO ROWS OF BALE BARRIERS WHERE THE SLOPE LENGTH EXCEEDS 50 FEET

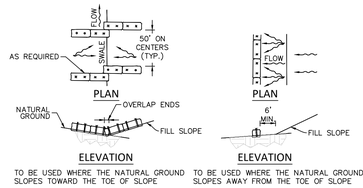
ALONG FILL SLOPE

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.

NOTES FOR BAILED HAY OR STRAW BARRIERS

1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN CORACLE WITH CHART I, SHEET I PER INDEX 102 OF THE 2010 FDOT DESIGN STANDARDS.
2. BALES SHALL BE ANCHORED WITH 2-1"" x 2" (OR 1"" DIA.) x 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



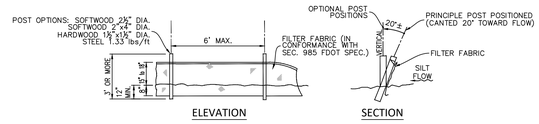
TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

TO BE USED WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

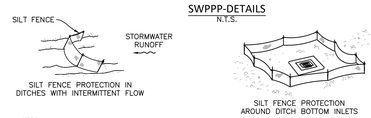
AT TOE OF SLOPE

BARRIERS FOR FILL SLOPES

N.T.S.



SWPPP-DETAILS
N.T.S.

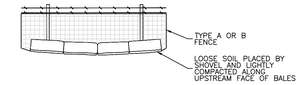


NOTES

1. SPACING FOR TYP III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS OF DRAINAGE STRUCTURES SHEET 2 OF 3 PER 2010 FDOT DESIGN STANDARDS INDEX 102.
2. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER

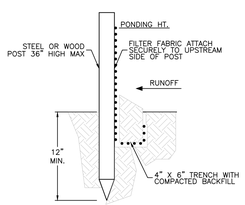
SILT FENCE DETAILS

N.T.S.

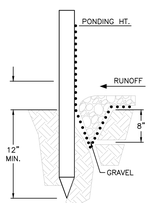


BALES BACKED BY FENCE

N.T.S.



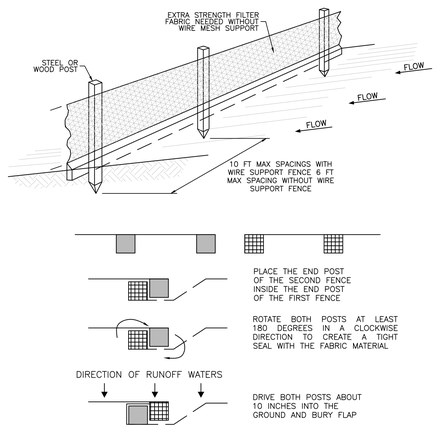
STANDARD DETAIL
N.T.S.
TRENCH WITH NATIVE BACKFILL



ALTERNATE DETAIL
N.T.S.
TRENCH WITH GRAVEL

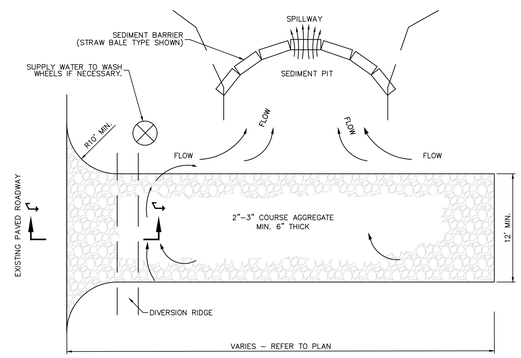
NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



SILT FENCE ATTACHMENT DETAIL

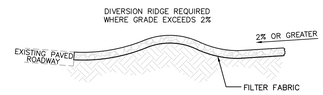
N.T.S.



PLAN
N.T.S.

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



SECTION 'A - A'
N.T.S.

NOTE
USE SANDBAGS, STRAW BALES, OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

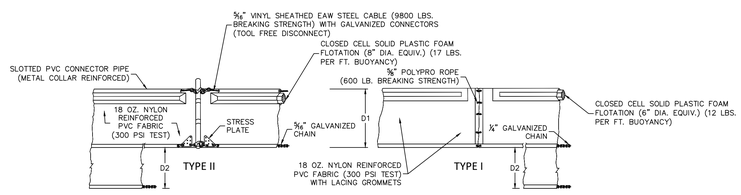
GENERAL NOTES

TEMPORARY ACCESS ROADS AND PARKING AREAS:

1. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT.
2. TEMPORARY PARKING AREAS SHOULD BE LOCATED ON NATURALLY FLAT AREAS TO MINIMIZE GRADING. GRADES SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE BUT SHOULD NOT EXCEED 4 PERCENT.
3. ROADBEDS SHALL BE AT LEAST 14 FEET (5.5 m) WIDE FOR ONE-WAY TRAFFIC AND 20 FEET (8 m) WIDE FOR TWO-WAY TRAFFIC.
4. ALL CUTS AND FILLS SHALL HAVE SIDE SLOPES THAT ARE STABLE FOR THE PARTICULAR SOIL. SLOPES OF 2:1 OR FLATTER ARE RECOMMENDED FOR CLAY SOILS, AND SLOPES OF 3:1 OR FLATTER ARE RECOMMENDED FOR SANDY SOILS.
5. STORMWATER SYSTEM SHALL BE PROVIDED AS NEEDED AND SHALL BE DESIGNED AND CONSTRUCTED ACCORDING TO APPLICABLE REGULATIONS.
6. THE ROADBED OR PARKING SURFACE SHALL BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
7. A 6 INCH (15 cm) COURSE OF FDOT NO. 1 AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF UTILITY INSTALLATION WITHIN THE RIGHT-OF-WAY AND/OR SITE. FILTER FABRIC MAY BE APPLIED TO THE ROADBED FOR ADDITIONAL STABILITY ACCORDING TO THE FABRIC MANUFACTURER'S SPECIFICATIONS, IF NECESSARY PER UNDERLYING SOILS CONDITION AND CONSTRUCTION NEEDS.

SOIL TRACKING MEASURES (TEMPORARY CONSTRUCTION ENTRANCE)

N.T.S.



D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER

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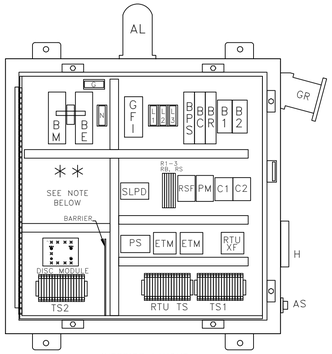
CONTROL CENTER DESIGNED & MANUFACTURED TO MEET ALL D.E.P. REQUIREMENTS

MOPS CONTROL CENTER

SEE SCHEDULE FOR ELECTRICAL SERVICE REQUIREMENTS



INTERIOR LAYOUT
(DOOR NOT SHOWN FOR CLARITY)

PANEL COMPONENTS

AL	ALARM LIGHT
ALT	ALTERNATOR (ON DISC)
AS	ALARM SILENCE SWITCH
B1-2	MOTOR BREAKERS
BC	CONTROL BREAKER
BE	EMERGENCY BREAKER
BM	MAIN BREAKER
BPS	POWER SUPPLY BREAKER
BR	RECEPTACLE BREAKER
C1-2	CONTACTOR, MOTOR START
GFI	CONVENIENCE RECEPTACLE
DISC	DUPLEX INTRINSICALLY SAFE CONTROLLER
ETM	ELAPSED TIME METER
G	GROUND BLOCK
GR	GENERATOR RECEPTACLE
H	HORN
HOA	HAND-OFF-AUTO SWITCH (ON DISC)
L1,2,3	POWER DISTRIBUTION BLOCK
N	NEUTRAL BLOCK
PL	PILOT LIGHT (ON DISC)
PM	PHASE MONITOR
PS	POWER SUPPLY
R1-3	RELAYS
RB	BATTERY RELAY
RS	SILENCE RELAY
RSF	SEAL FAIL RELAY
RTUXF	RTU TRANSFORMER
SLPD	SURGE/LIGHTNING PROTECTION DEV.
TS1	TERMINAL STRIP FOR PUMPS
TS2	TERMINAL STRIP FOR FLOATS

ENCLOSURE

NEMA 4X Stainless Steel
Single Door w/ Padlock Hasp
30"H x 30"W x 8"D

27	NEU	NEU	120	120	+	−	GND	COM	SF	SF2	T1	T2	T3	1	2	P1G	T1	T2	T3	1	2	P2G
SPARE	NEU		120V		RTU TERMINALS (IF USED)		PUMP SEAL FAIL		MOTOR 1 LEADS				MT1 MOTOR 1		GND	MOTOR 2 LEADS			MT2 MOTOR 2		GND	

TS1 TERMINAL SCHEDULE

JUMPERS

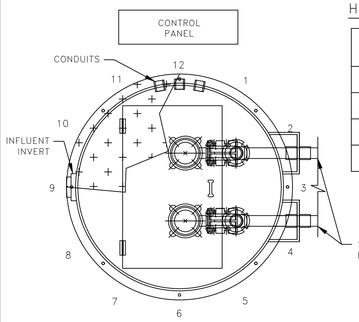
1	2	3	4	5	6	7	8
FS1 ALL OFF		FS2 CALL LEAD		FS3 CALL LAG		FS4 HIGH ALARM	

TS2 TERMINAL SCHEDULE

NOTES:

1. PANEL LABELED FOR U.L 508A "MOTOR CONTROL CENTERS" AND U.L. 698A "HAZARDOUS LOCATION PANELS" (INTRINSICALLY SAFE)
2. COMPLETE BACK-UP, SELF-CHARGING BATTERY, WITH VISUAL/AUDIO ALARM SYSTEM PER RSWF-45.
3. SEE CONTROL CENTER DETAIL SHEET FOR ANY ADDITIONAL NOTES.

** THIS SPACE AVAILABLE FOR CAPACITORS FOR SINGLE PHASE OR TRANSFORMER FOR 460V.

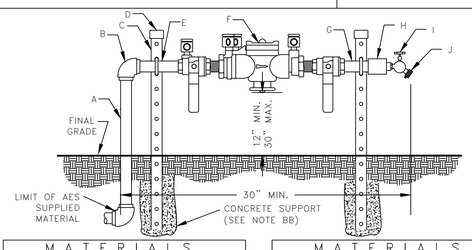


SCHEMATIC BASED ON THE STATION'S DISCHARGE BEING LOCATED AT THE #3 CLOCK POSITION. SEE SCHEDULE FOR LOCATION OF INVERTS AND CONTROL PANEL. LOCATIONS SUBJECT TO CHANGE.

HUB AND INVERT LOCATION

ITEMS	CLOCK POSITION
DISCHARGE LINES	3:00
PRIMARY INVERT	9:00
SECONDARY INVERT	N/A
LOCATION OF CONTROL PANEL	12:00

NOTE: BACKFILL AROUND LIFT STATION FROM ANTI-FLOATATION RING UP TO FINISHED GRADE SHALL BE COMMON FILL COMPACTED IN 12-INCH MAX. LIFTS TO 98% DENSITY PER AASHTO T-180. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE WETWELL DURING COMPACTION.



MATERIALS		
ITEM	QTY.	DESCRIPTION
A	1	3/4" x 36" S.S. NIPPLE
B	1	3/4" S.S. 90° ELBOW
C	2	1-5/8"x1-5/8"x40" ALUM. SUPPORT BRACKET
D	2	SUPPORT BRACKET CAPS P/N 2053
E	2	3/4" S.S. PIPE BOLTS

MATERIALS		
ITEM	QTY.	DESCRIPTION
F	1	3/4" APP. BACKFLOW PREVENTER
G	2	3/4" x 3" S.S. NIPPLE
H	1	3/4" x 3/4" S.S. COUPLING
I	1	3/4" BRONZE HOSE BIB
J	1	3/4" VACUUM BREAKER

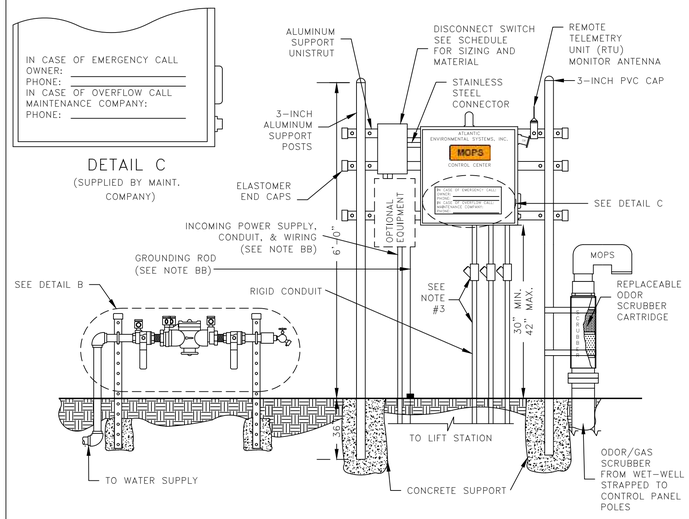
DETAIL B

R.P.Z. BACKFLOW PREVENTER ASSEMBLY DETAIL

U.S.C. AND A.S.S.E. APPROVED

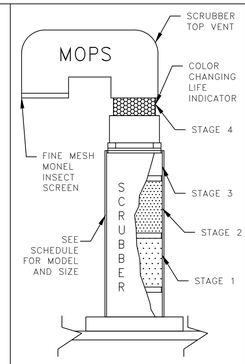
N.T.S.

DETAIL C
(SUPPLIED BY MAINT. COMPANY)



CONTROL CENTER ASSEMBLY AND INSTALLATION

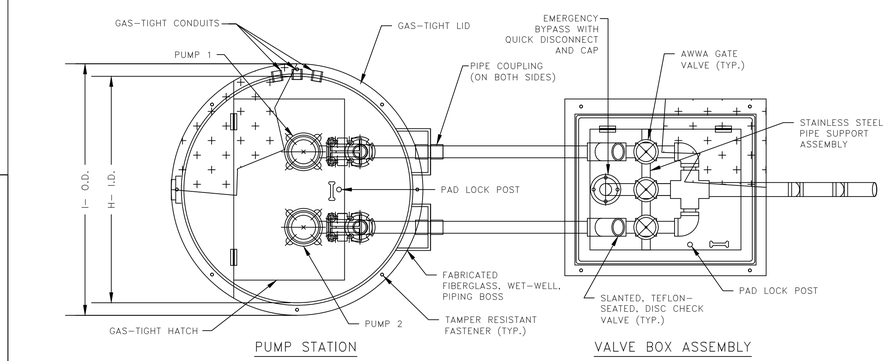
N.T.S.



DETAIL A

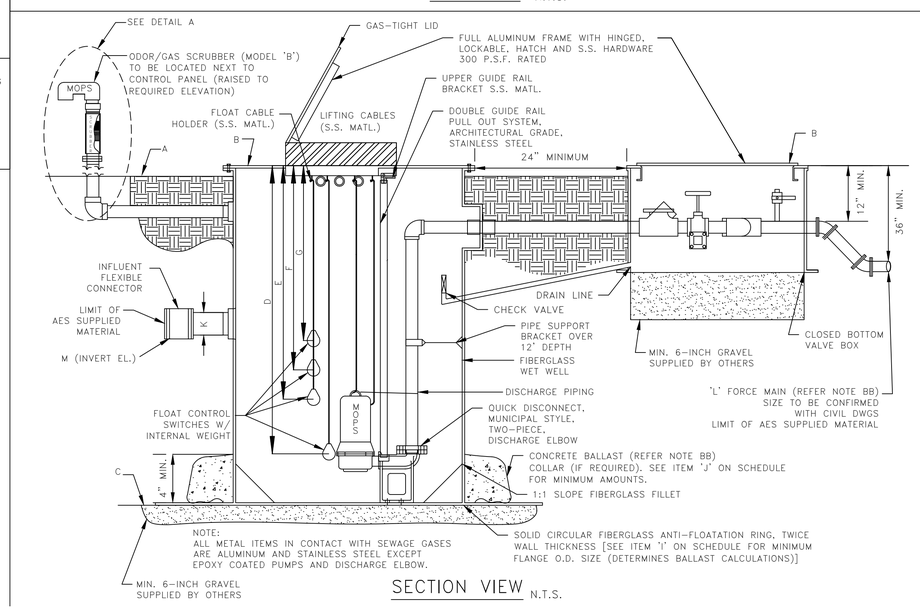
MOPS ODOR/GAS SCRUBBER

NOTES:
1. SCRUBBER DESIGNED TO REMOVE TOXIC SEWAGE GASES, H2S, AND OFFENSIVE ODORS SUCH AS SKATOLES AND MERCAPTANS.
2. SCRUBBER'S LIFE EXPECTANCY CALCULATIONS ARE INCLUDED IN SHOP DRAWING SUBMITTALS.
3. SCRUBBER UNIT CAN BE MOUNTED INSIDE WET-WELL OR TOP MOUNTED.
4. MODEL 'B' SHOWN.



TOP VIEW

N.T.S.



NOTE:
ALL METAL ITEMS IN CONTACT WITH SEWAGE GASES ARE ALUMINUM AND STAINLESS STEEL EXCEPT EPOXY COATED PUMPS AND DISCHARGE ELBOW.

SECTION VIEW

N.T.S.

MOPS

MANUFACTURED ODORLESS PUMP STATION

ATLANTIC ENVIRONMENTAL SYSTEMS, INC.
LAKE WORTH, FL 33461
PH: (561) 547-8080 FAX: (561) 547-3999

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PRIVATE SERIES

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MOPS PUMP STATION SCHEDULE

MOPS SERIES		ITEM DESCRIPTION		
INITIAL DESIGN FLOW (G.P.M.)	22		100 YEAR FLOOD ELEVATION	ZONE X
INITIAL DESIGN HEAD (T.D.H.)	17'		25 YEAR FLOOD ELEVATION	ZONE X
SECONDARY DESIGN FLOW (G.P.M.)	N/A	A	GRADE ELEVATION	5.50'
SECONDARY DESIGN HEAD (T.D.H.)	N/A	B	TOP ELEVATION OF WET WELL	5.50'
RATED PERFORMANCE SPEED	3450 RPM	C	BOTTOM ELEVATION OF WET WELL	-2.50'
RATED MOTOR HORSEPOWER	2.0	D	ALL PUMPS OFF ELEVATION	0.50'
SUBMERSIBLE PUMP TYPE (P-1,P-2)	GRINDER	E	LEAD PUMP ON ELEVATION	1.00'
PUMP MODEL NUMBER	MOPS	F	LAG PUMP ON ELEVATION	1.50'
SERVICE ENTRANCE VOLTAGE	208	G	HIGH ALARM ELEVATION	2.00'
SERVICE ENTRANCE PHASE	3	H	INSIDE DIAMETER OF WET-WELL	48"
CONTROL CENTER FULL LOAD AMPS	21	I	OUTSIDE DIAMETER OF ANTI-FLOATATION RING	84"
NEMA 3R PAINTED STEEL DISCONNECT SWITCH, RATED AMPS	30	J	MINIMUM CUBIC FEET OF CONCRETE BALLAST (CU YDS)	000/(0)
WET WELL SCOURER SYSTEM	N/A	K	INVERT PIPE DIAMETER	4"
REMOTE STATION MONITOR (TELEMETRY)	W/SA	L	FORCE MAIN DIAMETER	2"
ON-SITE GENERATOR SYSTEM	N/A	M	PRIMARY INVERT ELEVATION	2.76'
		N	SECONDARY INVERT ELEVATION	N/A

MOPS EQUIPMENT IDENTIFICATION	QTY.	MODEL DESIGNATION
MOPS PUMP STATION	1	B22-4896-C-2.0
MOPS VALVE BOX ASSEMBLY (VBA)	1	VBA-22
MOPS ODOR/GAS SCRUBBER (OGS)	1	OGS-B
MOPS R.P.Z. ASSEMBLY	1	75
MOPS CONTROL CENTER	1	PSC-222-2.0
MOPS DISCONNECT SWITCH	1	FDS-30-3-2-PS
MOPS CONTROL CENTER MOUNTING ASSEMBLY	1	CCMA-32AL
MOPS WET WELL SCOURER SYSTEM	0	N/A
MOPS REMOTE STATION MONITOR	1	PROVIDED WITH SERVICE AGREEMENT
1st YEAR SERVICE/MAINTENANCE CONTRACT	1	LEVEL 1 WITH REMOTE MONITOR
MOPS ON-SITE GENERATOR SYSTEM	0	N/A
MOPS FIELD SERVICE WORK	1	CONTROL INSTALLATION & START-UP

MOPS PUMP STATION COMPLIANCE NOTES:

THIS PUMP STATION DESIGN COMPLIES WITH THE FOLLOWING REQUIRED STANDARDS:

- STATE OF FLORIDA ENVIRONMENTAL PROTECTION STANDARDS
- FLORIDA ADMINISTRATIVE CODE (F.A.C.): 62-640.400- COLLECTION AND TRANSMISSION SYSTEMS
- NATIONAL ELECTRIC CODE (NEC) CLASS 1, DIVISION 1, GROUP D- HAZARDOUS LOCATIONS
- UNDERWRITER'S LABORATORIES (U.L.) 508A-MOTOR CONTROL CENTERS AND U.L. 698A-INSTRINSICALLY SAFE CONTROL CENTERS
- RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (2014 EDITION).

1. PUMPS ARE RATED BY FACTORY MUTUAL FOR CLASS 1, DIVISION 1, GROUP D ATMOSPHERES AS REQUIRED BY NEC.
2. THE CONTROL CENTER INCORPORATES INTRINSICALLY SAFE RELAYS AND IS LISTED TO UL 698A INTRINSICALLY SAFE FOR CLASS 1, DIVISION 1 ATMOSPHERES.
3. THE CONDUIT PROVIDED, ALONG WITH CONDUIT GAS-SEAL-OFFS, ARE RATED FOR CLASS 1, DIVISION 1 LOCATIONS.
4. THE WASTEWATER PUMPS AND THE CONTROL CENTER INCORPORATE A MECHANICAL SEAL FAILURE DETECTION AND NOTIFICATION SYSTEM.
5. THE CONTROL CENTER INCLUDES EITHER A REMOTE TELEMETRY UNIT (RTU) OR A SELF-CHARGING, BACK-UP ALARM SYSTEM TO OPERATE ON POWER FAILURE.
6. THE PUMP STATION INCORPORATES AN ODORLESS DESIGN WITH A SCRUBBER SYSTEM TO CONTROL TOXIC GASES AND ODORS FOR COMPLIANCE TO F.A.C. 62-604.400.
7. THE BOTTOM OF THE TOP RIM ELEVATION OF PUMP STATION MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 25 YEAR FLOOD ELEVATION. THE LISTED 25 YEAR FLOOD ELEVATION PROVIDED BY SITE CIVIL ENGINEER.
8. THE BOTTOM ELEVATION OF THE MOPS CONTROL CENTER MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 100 YEAR FLOOD ELEVATION. THE LISTED 100 YEAR FLOOD ELEVATION PROVIDED BY THE SITE CIVIL ENGINEER.

MOPS ENGINEERING NOTES:

AA. THE HORSEPOWER SHOWN ON THE SCHEDULE IS A MINIMUM HORSEPOWER REQUIREMENT BASED ON THE STATION'S DESIGN CRITERIA AND THE REQUIRE TORQUE. (LOWER RATED HORSEPOWER EQUIPMENT WILL NOT BE ACCEPTABLE.)
BB. THESE ITEMS ARE NOT SUPPLIED BY A.E.S. WITH THE MOPS STATION.
CC. INVERT ELEVATIONS BASED ON INSIDE BOTTOM OF PIPE.
DD. THE MOPS CONTROL ASSEMBLY CONSISTS OF THE FOLLOWING: CONTROL CENTER DISCONNECT SWITCH, MOUNTING ASSEMBLY, ELECTRICAL CONDUITS, AND SEAL-OFF. THESE ITEMS MUST BE SUPPLIED AND INSTALLED BY THE MOPS PUMP STATION MANUFACTURER TO VALIDATE MOPS WARRANTY PROGRAM.
EE. FOR STATIONS IN MIAMI-DADE COUNTY, THE MOPS PUMP STATION IS SUPPLIED WITH A REMOTE TELEMETRY MONITORING UNIT AND A.E.S. MAINTENANCE SERVICE. THE R.T.U. ALLOWS FOR MONITORING OF LAG ALARM, HIGH ALARM, AND POWER FAILURE PER CHAPTER 24.42.2(5). THE R.T.U. IS EQUIPPED WITH A BATTERY BACK UP AND IS INSTALLED ABOVE THE 100 YEAR FLOOD ELEVATION.

THE MOPS WASTEWATER PUMP STATION DESIGN AND EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN REVIEWED, PERMITTED, AND CERTIFIED AS COMPLYING WITH ALL THE STATE OF FLORIDA D.E.P. AND LOCAL REQUIREMENTS. ANY SUBSTITUTION FROM THIS DESIGN MAY REQUIRE NEW PERMITS, APPLICATION FEES, AND ENGINEERING SERVICES FOR RE-CERTIFICATION AND DESIGN REVIEW.

P.E. CERTIFICATION:

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REVISION	DATE
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Project: HOLLYWOOD BEACH GOLF COURSE

Prepared For: MILLER LEGG AND ASSOCIATES 13680 NW 5TH STREET, SUITE 200, SUNRISE, FL 33325

AES. Project No: 2053

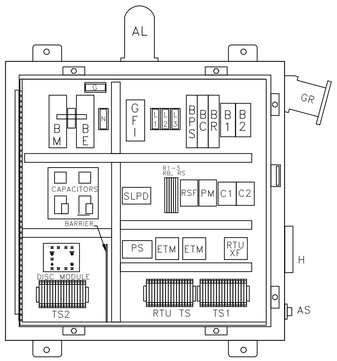
Date: 10/06/2023

Page No. LS-1

CONTROL CENTER DESIGNED & MANUFACTURED TO MEET ALL D.E.P. REQUIREMENTS

MOPS CONTROL CENTER

SEE SCHEDULE FOR ELECTRICAL SERVICE REQUIREMENTS



INTERIOR LAYOUT
(DOOR NOT SHOWN FOR CLARITY)

TS1 TERMINAL SCHEDULE

27	NEU	NEU	120	120	+	−	GND	COM	SF1	SF2	T1	T2	T3	1	2	P1G	T1	T2	T3	1	2	P2G
RECEPTACLE	NEU		120V		RTU TERMINALS (IF USED)			PUMP SEAL FAIL			MOTOR 1 LEADS			MT1 OMOTOR 1		G N D	MOTOR 2 LEADS			MT2 MOTOR 2		G N D

JUMPERS

1	2	3	4	5	6	7	8
FS1 ALL OFF		FS2 CALL LEAD		FS3 CALL LAG		FS4 HIGH ALARM	

TS2 TERMINAL SCHEDULE

PANEL COMPONENTS

AL	ALARM LIGHT
ALT	ALTERNATOR (ON DISC)
AS	ALARM SILENCE SWITCH
B1−2	MOTOR BREAKERS
BC	CONTROL BREAKER
BE	EMERGENCY BREAKER
BM	MAIN BREAKER
BPS	POWER SUPPLY BREAKER
BR	RECEPTACLE BREAKER
C1−2	CONTACTOR, MOTOR START
GFI	CONVENIENCE RECEPTACLE
DISC	DUPLEX INTRINSICALLY SAFE CONTROLLER
ETM	ELAPSED TIME METER
G	GROUND BLOCK
GR	GENERATOR RECEPTACLE
H	HORN
HOA	HAND−OFF−AUTO SWITCH (ON DISC)
L1,2,3	POWER DISTRIBUTION BLOCK
N	NEUTRAL BLOCK
PL	PILOT LIGHT (ON DISC)
PM	PHASE MONITOR
PS	POWER SUPPLY
R1−3	RELAYS
RB	BATTERY RELAY
RS	SILENCE RELAY
RSF	SEAL FAIL RELAY
RTUXF	RTU TRANSFORMER
SLPD	SURGE/LIGHTNING PROTECTION DEV.
TS1	TERMINAL STRIP FOR PUMPS
TS2	TERMINAL STRIP FOR FLOATS

ENCLOSURE

NEMA 4X Stainless Steel
Single Door w/ Padlock Hasp
30"H x 30" W x 8" D

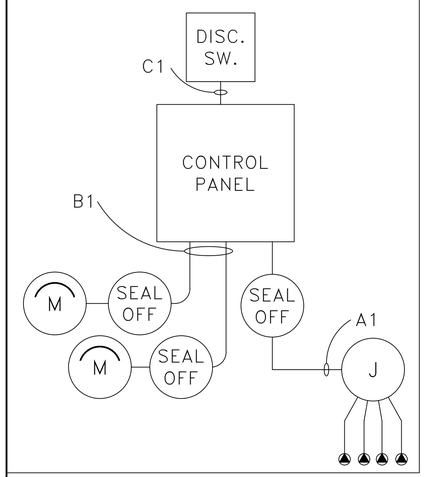
NOTES:

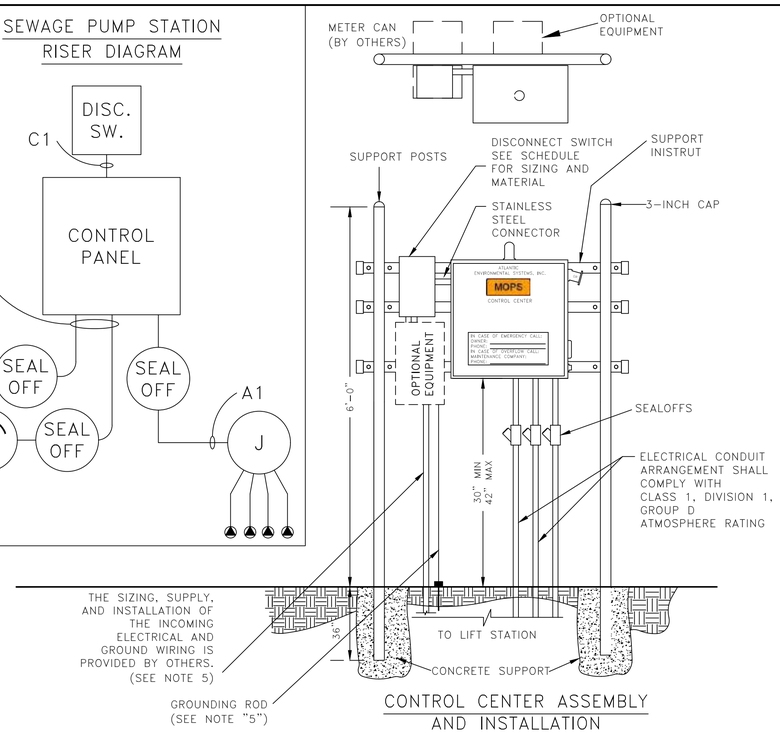
1. PANEL LABELED FOR U.L 508A "MOTOR CONTROL CENTERS" AND U.L. 698A "HAZARDOUS LOCATION PANELS" (INTRINSICALLY SAFE)

2. COMPLETE BACK-UP, SELF-CHARGING BATTERY, WITH VISUAL/AUDIO ALARM SYSTEM PER RSWF-45.

3. SEE CONTROL PANEL DETAIL SHEET FOR ADDITIONAL NOTES.

SEWAGE PUMP STATION RISER DIAGRAM





CONTROL CENTER ASSEMBLY AND INSTALLATION

MOPS

MANUFACTURED ODORLESS PUMP STATION

ATLANTIC ENVIRONMENTAL SYSTEMS, INC.
LAKE WORTH, FL 33461
PH: (561) 547−8080 FAX: (561) 547−3999

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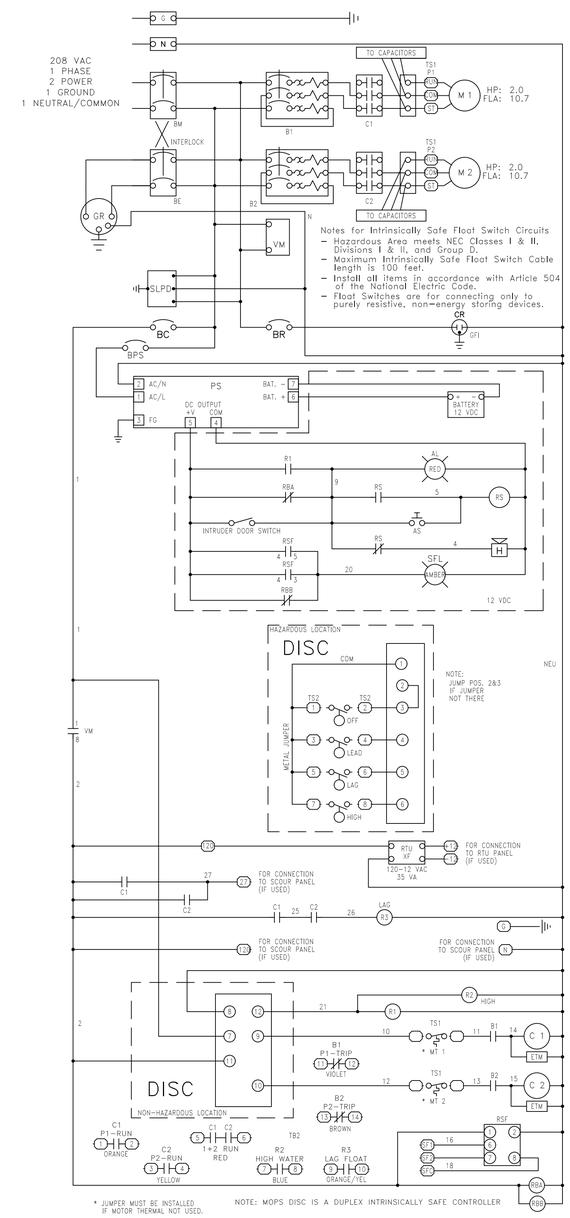
MOPS MANUFACTURED PUMP STATIONS ARE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STANDARDS FOR SEWAGE LIFT STATIONS, INCLUDING THOSE STANDARDS AS DESCRIBED IN THE FLORIDA ADMINISTRATIVE CODE. THE PRIMARY PURPOSE OF THIS DRAWING IS TO RELAY ELECTRICAL REQUIREMENTS AND TO SHOW CONTROL SYSTEMS FOR THE LIFT STATION BY A.E.S.

THIS DRAWING AND THE DESIGN CONTAINED HEREIN IS PROPRIETARY AND IS AND SHALL REMAIN THE PROPERTY OF ATLANTIC ENVIRONMENTAL SYSTEMS, INC. THIS DRAWING AND DESIGN SHOULD BE USED ONLY FOR THE PURPOSE FOR WHICH IT IS INTENDED, AND ONLY WITH WRITTEN AUTHORIZATION FROM ATLANTIC ENVIRONMENTAL SYSTEMS, INC. ANY REPRODUCTION, IN WHOLE OR IN PART, MUST CLEARLY SHOW THE ATLANTIC ENVIRONMENTAL NAME AND ADDRESS IN THE REPRODUCTION.



ELECTRICAL NOTES AND CHECK LIST

1. RISER DIAGRAM
   - 1.A. SEE DIAGRAM (POWER METER ON REAR SIDE OF CONTROL CENTER MOUNTING ASSEMBLY, WHEN APPLICABLE.)
   - 1.B. ALL PRE−WIRED CONTROL PANELS SHALL BE U.L. LISTED AND LABELED, PRIOR TO INSTALLATION.
   - 1.C. AMPS INTERRUPTING CAPACITY NOTED ON RISER DIAGRAM.
   - 1.D. SEAL OFFS SHALL BE USED AND CONFORM TO N.E.C. CH. 500 ON EACH WETWELL CONDUIT.
   - 1.E. ALL SERVICE EQUIPMENT SHALL HAVE A FUSIBLE DISCONNECT AND SHALL BE SERVICE RATED (WHERE APPLICABLE.)
   - 1.F. SUPPORT RACK DETAIL AND MATERIALS OF CONSTRUCTION ARE SHOWN ON PUMP STATION DRAWING.
   - 1.G. ALL EQUIPMENT SHALL COMPLY WITH N.E.C. 430−120 (ALL BREAKERS SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION WHEN REQUIRED.)
2. PANEL SCHEDULE
   - 2.A. SERVICE AND METER ATTACHED TO BACK SIDE OF MOPS PUMP STATION CONTROL CENTER (WHEN APPLICABLE.)
3. LOAD CALCULATIONS
   - 3.A. NOTE LOAD CALCULATIONS IN DETAIL; NEUTRAL SHALL NOT BE DERATED.
4. MISCELLANEOUS
   - 4.A. ALL ELECTRICAL EQUIPMENT AND APPURTENANCES ARE IN COMPLIANCE WITH N.E.C. 110−16.
   - 4.B. CIRCUIT NUMBERS NOT APPLICABLE TO THIS PUMP STATION.
   - 4.C. CONDUIT SEAL−OFFS SHALL BE USED IN ACCORDANCE WITH N.E.C. SECTION 500−5−1 AND 500−5−A.
   - 4.D. PUMP STATION IS RATED CLASS 1, DIVISION 1, GROUP D, FOR HAZARDOUS LOCATION.
   - 4.E. ALL CABLES SHALL BE LISTED WITH A N.R.T.L. FOR USE AND APPLICATION. SUBMERSIBLE PUMP MOTOR CABLES WILL BE SUPPLIED INTEGRAL WITH THE MOTOR BY MANUFACTURER.
   - 4.F. FOR STATIONS IN MIAMI−DADE COUNTY, THE MOPS PUMP STATION IS SUPPLIED WITH A REMOTE−TELEMETRY MONITORING UNIT THROUGH THE A.E.S. MAINTENANCE SERVICE PROGRAM, THE R.T.U. ALLOWS FOR MONITORING OF THE LAG ALARM, HIGH ALARM, AND POWER FAILURE PER CHAPTER 24.42.2(5). THE R.T.U. IS EQUIPPED WITH A BATTERY BACK UP AND IS INSTALLED ABOVE THE 100 YEAR FLOOD ELEVATION.
5. INCOMING POWER SUPPLY AND GROUNDING
   - 5.A. THE DESIGN, SUBMITTAL, SUPPLY, SIZING, AND INSTALLATION OF ALL INCOMING POWER FEEDS, GROUNDING, AND GROUNDING CONDUCTORS ARE TO BE PROVIDED BY OTHERS; AND ARE REQUIRED TO COMPLY WITH THE NATIONAL ELECTRIC CODE AND ALL OTHER LOCAL BUILDING CODES.

SEWAGE PUMP STATION RISER SPECIFICATIONS

POWER = 1 PHASE / 60 HERTZ / 208 VAC / 2 WIRE + NEUTRAL/COMMON + GROUND
(2) 2.0 HP (1.5 KW) PUMP MOTORS WITH FULL LOAD AMPS OF 10.7 EACH
34 AMP MAX. RATING FOR CONTROL PANEL
60 AMP FUSIBLE DISCONNECT SWITCH AS SERVICE ENTRANCE WITH
35 AMP TIME DELAY (INDUCTION MOTOR DUTY) FUSES (QUANTITY 2)

60 AMP DISCONNECT SWITCH
PUMP STATION DUPLEX CONTROL PANEL
PANEL MAIN & EMERGENCY CIRCUIT BREAKERS = 2 POLE
60 AMP, MIN 10 KAIC RATED
MOTOR OCPD RATED FOR 9−14 AMPS ADJUSTABLE

WIRE & CONDUIT SCHEDULE PER DRAWING:
A1 = MIN 1−1/4" RIGID GALVANIZED CONDUIT FOR (4) FLOAT LEVEL SWITCH CORDS
B1 = MIN 1−1/4" RIGID GALVANIZED CONDUIT FOR MOTOR POWER CABLES
C1 = MIN 1" (30A), MIN 1−1/4" (60A) MIN 2/0 (100A) MIN 3/0 (200A)
GALVANIZED STEEL CONDUIT NIPPLE BETWEEN DISCONNECT
SWITCH AND CONTROL PANEL, WITH (4) 208−230V, OR (3) 460V
MIN. SIZE AWG # 6 CONDUCTORS,
GROUND = AWG # 6 COPPER (GREEN)

SEWAGE PUMP STATION POWER LOAD CALCULATIONS

ALL CALCULATIONS ARE PER NATIONAL ELECTRIC CODE SECTION 230−91, 230−42 AND 220.
POWER = 1 PHASE / 60 HERTZ / 208 VAC / 2 WIRE + NEUTRAL/COMMON + GROUND
MOTOR = 2.0 HP (1.5 KW) WITH FULL LOAD AMPS = 10.7
PUMP MOTOR 1 = 10.7 AMPS
PUMP MOTOR 2 = 10.7AMPS
MAX. CONTROL POWER = 1 AMPS
MAX. DUPLEX CONVENIENCE RECEPTACLE POWER = 8.0 AMPS
25% OF LARGEST MOTOR LOAD = 2.7 AMPS

TOTAL AMPS = 33.1 MAXIMUM
USE 34 AMP MAX. RATING FOR CONTROL PANEL
USE 60 AMP FUSIBLE DISCONNECT SWITCH AS SERVICE ENTRANCE (IF APPLICABLE)
USE 35 AMP TIME DELAY (INDUCTION MOTOR DUTY) FUSES (QUANTITY 2)

P.E. CERTIFICATION:

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REV.	DATE
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SCALE: N.T.S.

Project: HOLLYWOOD BEACH GOLF COURSE
Design Engineer: MILLER LEGG
5747 N. ANDREWS WAY, FT. LAUDERDALE, FL 33309

AES. Project No:
Date: 08/17/2023

Drawing No. LS−2