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Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

SITE DEVELOPMENT PLANS FOR

MADISON STREET PARK

CONTRACT NO. 18-C-00036

CHANNEL DISTRICT

HILLSBOROUGH COUNTY, FLORIDA

A DEVELOPMENT BY

CITY OF TAMPA

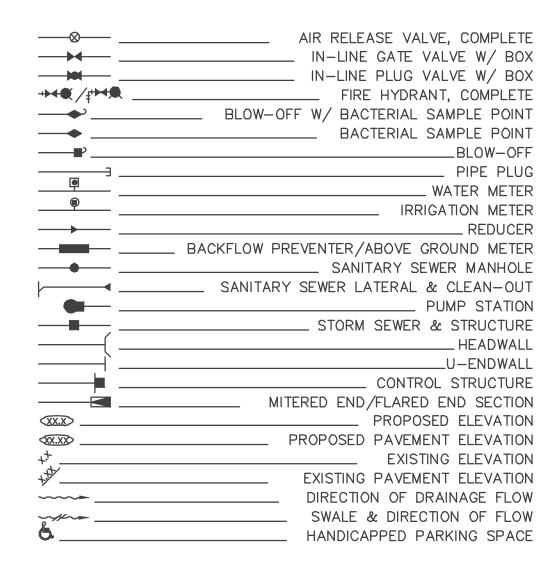
Sunshine State ONE CALL Call before you dig.

LEGEND

ABBREVIATIONS

B0C	BACK OF CURB or BACK OF GUTTER
	EDGE OF PAVEMENT
	DRAINAGE EASEMENT
LME	LAKE MAINTENANCE EASEMENT
	UTILITY EASEMENT
CUE	COUNTY UTILITY EASEMENT
EL or ELEV	ELEVATION
INV	INVERT
LF	LINEAR FEET
NGVD	NATIONAL GEODETIC VERTICAL DATUM
	POINT OF VERTICAL INTERSECTION
	NOT IN CONTRACT
R/W or ROW	RIGHT OF WAY
SB	SOIL BORING
	STATION
	UTILITY POLE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
CATV	CABLE TELEVISION
CATVFPL or FP&L	CABLE TELEVISION FLORIDA POWER & LIGHT
CATV FPL or FP&L UTF	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA
CATV FPL or FP&L UTF B	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE
CATV FPL or FP&L UTF B C	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE
CATV FPL or FP&L UTF B € ft	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE
CATV FPL or FP&L UTF 型 で E P	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE REINFORCED CONCRETE PIPE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE REINFORCED CONCRETE PIPE ELLIPTICAL REINFORCED CONCRETE PIPE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE REINFORCED CONCRETE PIPE ELLIPTICAL REINFORCED CONCRETE PIPE MANHOLE
CATV	CABLE TELEVISION FLORIDA POWER & LIGHT UNITED TELEPHONE OF FLORIDA BASE LINE CENTERLINE FLOW LINE PROPERTY LINE CORRUGATED METAL PIPE DUCTILE IRON PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE REINFORCED CONCRETE PIPE ELLIPTICAL REINFORCED CONCRETE PIPE

SYMBOLS



NOTE: OPEN SYMBOLS AND DASHED LINES DENOTE EXISTING IMPROVEMENTS

DESCRIPTION:

PARCEL 1

A portion of Lot 6, 30, and 31, Block 1, and a portion of the Platted former Railroad Right—of—way, Block 1, INTER—STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, being more particularly described as follows:

Begin at the Northeast corner of Lot 6, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, thence along the West face of an existing two story masonry building S.01°53'09"W., 115.13 feet, to the South boundary line of said Lot 6; thence along the South boundary line of said Lot 6, S.89°29'35"E., 0.12 feet, to the Southeast corner thereof; thence S.01°49'01"W., 12.96 feet, to the Northwest corner of Lot 30; thence S.00°30'15"W., 115.14 feet, to a point on the South boundary of Lot 30, said point lying 97.37 feet Westerly from the Southeast corner of Lot 29 of said Block 1; thence along the South boundary of Lots 30 and 31, N.89°29'25"W., 13.20 feet; thence departing said South boundary line, N.00°30'15"E., 243.20 feet, to the North boundary of Lot 6; thence along the North boundary of Lot 6, S.89°29'49"E., 16.15 feet to the POINT OF BEGINNING.

PARCEL 2

Lot 29 and a portion of Lot 30, Block 1, INTER—STATE INVESTMENT COMPANY'S PLAT No.1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, being more particularly described as follows:

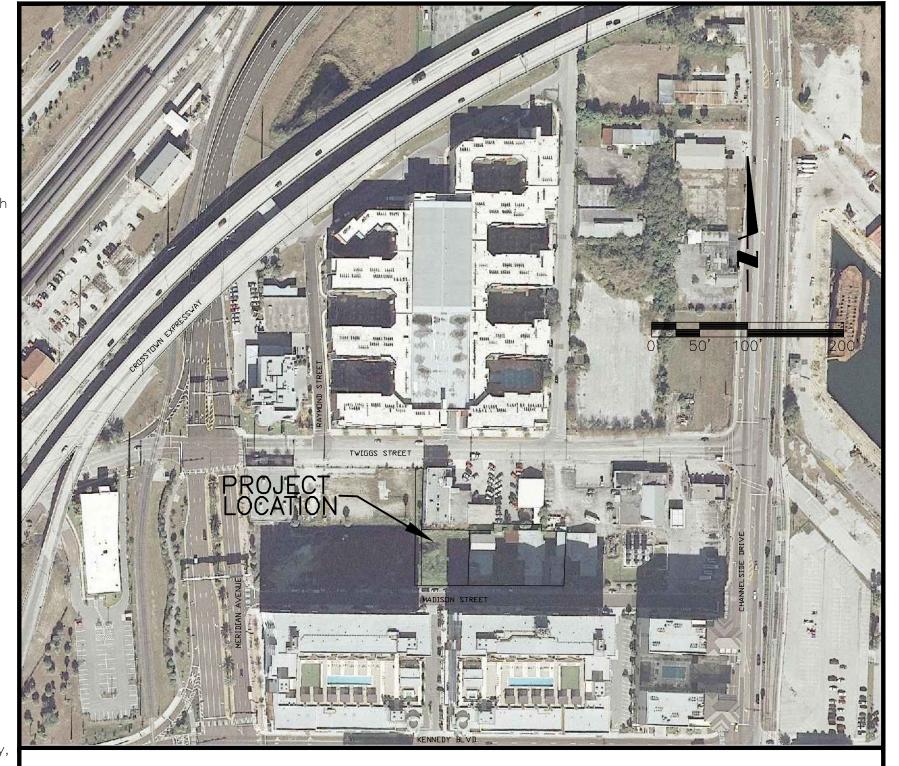
Begin at the Northeast corner of Lot 29, Block 1, INTER-STATE INVESTMENT COMPANY'S PLAT No. 1, according to the plat thereof as recorded in Plat Book 11, Page 54, Public Records of Hillsborough County, Florida, thence along the East boundary of said Lot 29, S.01°51'06"W., 115.17 feet(115.14 feet per Plat), to the Southeast corner of said Lot 29; thence along the South boundary of Lots 29 and 30 of said Block 1, N.89°29'25"W., 97.37 feet; thence departing the South boundary of said Lots, N.00°30'15"E., 115.14 feet, to the Northwest corner of Lot 30; thence along the North boundary of said Lots 29 and 30 S.89°29'35"E., 100.08 feet(100 feet per Plat) to the POINT OF BEGINNING.

PARCEL 3

Lots 25, 26, 27, and 28, in Block 1, of INTERSTATE INVESTMENT COMPANY'S PLAT #1, according to the Plat thereof, as recorded in Plat Book 11, at Page 54, of the Public Records of Hillsborough County, Florida;

AND

That part of railroad right—of—way lying North of and abutting Lots 26 and 27, of Block 1, of INTERSTATE INVESTMENT COMPANY'S PLAT #1, according to the Plat thereof, as recorded in Plat Book 11, at Page 54, of the Public Records of Hillsborough County, Florida, as further described in Deed recorded January 5, 1983, in Official Records Book 4048, Page 854.



LOCATION MAP



777 S Harbour Island Blvd, Suite 600, Tampa, Florida 33602 813-223-9500 - F 813.223.0009 Certificate of Authorization #27013 - www.stantec.com

This item has been electronically signed and sealed by Hamidreza Sahebkar, P.E. on 12/15/2018 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

INDEX TO SHEETS SHEET NAME COVER SHEET GENERAL NOTES EXISTING CONDITIONS MAP SITE/UTILITY PLAN DRAINAGE PLAN WASTEWATER & STORMWATER C7 NOT USED WATER DETAILS CONSTRUCTION SURFACE WATER MANAGEMENT PLAN E1.0 | ELECTRICAL SITE PLAN E1.1 | PHOTOMETRIC SITE PLAN E2.0 | RISER DIAGRAM AND PANELS SCHEDULE E3.0 | ELECTRICAL SPECIFICATIONS L110 | MITIGATION PLAN L120 | HARDSCAPE PLAN L130 | LANDSCAPE PLAN L140 | IRRIGATION PLAN L520 | HARDSCAPE DETAILS L521 | HARDSCAPE DETAILS L522 | HARDSCAPE DETAILS L523 HARDSCAPE DETAILS L524 | SHADE STRUCTURE DETAILS L525 | SHADE STRUCTURE DETAILS L526 SHADE STRUCTURE DETAILS L527 HARDSCAPE DETAILS L530 LANDSCAPE DETAILS AND NOTES LANDSCAPE DETAILS AND NOTES L540 | IRRIGATION DETAILS AND NOTES NO. DATE DESCRIPTION ISSUE DATE: SEC-TWP-RGE PROJECT DESIGNER KEN JERNIGAN 12-14-2018 ISSUE DESCRIPTION: PROJECT ENGINEER 19-29-19 FINAL PLANS BID PLANS HAMID SAHEBKAR, P.E. FL LICENSE NO.: 39991 STATUS: PROJECT SURVEYOR BAYSIDE

PROJECT NUMBER **215612562**

12-2018 IND 1224 E.

INDEX NUMBER

1224 E. MADISON ST.

- . THESE DRAWINGS ARE TO BE CONSIDERED PRELIMINARY AND NOT FOR CONSTRUCTION UNTIL ALL PERMIT APPROVALS ARE CONFIRMED RECEIVED BY THE ENGINEER OF RECORD (EOR).
- . THESE DRAWINGS MAY CURRENTLY BE UNDER REVIEW BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND OTHER REGULATORY AGENCIES. THE FINAL APPROVED PLANS MAY DEVIATE CONSIDERABLY FROM THESE DRAWINGS. THE CONTRACTOR MUST ASSURE CONSTRUCTION IS IN ACCORDANCE WITH THE APPROVED DRAWINGS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE EOR TO VERIFY APPROPRIATE PLANS ARE BEING UTILIZED.
- . WHENEVER A CONFLICT OCCURS BETWEEN ANY SPECIFICATION, ANY INFORMATION SHOWN ON THE PLANS AND/OR ANY REGULATORY REQUIREMENT. THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 5. THESE DRAWINGS SHALL NOT BE UTILIZED FOR CONSTRUCTION PRIOR TO OBTAINING REQUIRED PERMITS FROM ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM WORK WITHIN PUBLIC EASEMENTS AND RIGHTS-OF-WAY AND INSURE THAT ALL OTHER REQUIRED PERMITS ARE APPROVED PRIOR TO COMMENCING THE WORK.
- 6. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE EOR'S SPECIFICATIONS. THE CONTRACTOR SHALL REVIEW ALL ACQUIRED PERMITS PRIOR TO CONSTRUCTION. AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- . ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL
- AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING STATE AND LOCAL BUILDING CODES. 8. CONSTRUCTION SHOWN ON THESE PLANS IS PERMITTED ONLY FOR THE WORK LOCATED WITHIN THE PRIVATE PROPERTY ALL WORK WITHIN THE RIGHT-OF-WAY AND EASEMENTS WILL REQUIRE A SEPARATE PERMIT AND MAY REQUIRE AN
- 9. ALL RIGHT-OF-WAY INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.
- 10.UNLESS OTHERWISE NOTED, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- 11.SOME OF THE DETAILS SHOWN INCLUDED IN THIS DRAWING SET ARE PROVIDED BY THE REVIEWING REGULATORY AGENCIES AND ARE REQUIRED BY THOSE AGENCIES TO BE SHOWN ON THE DRAWINGS FOR PERMIT APPROVAL. BY SIGNING AND SEALING THESE DRAWINGS. THE FOR IS NOT ASSUMING RESPONSIBILITY FOR ANY FRRORS OR OMISSIONS. ON THESE DETAILS. CONTRACTOR SHALL VERIFY THE DETAILS ARE THE LATEST ISSUED BY THE REGULATORY AGENCY. THE DETAILS COMPLY WITH THE LATEST TECHNICAL MANUAL SPECIFICATIONS, AND THE REGULATORY AGENCY INSPECTOR DOES NOT HAVE ANY ALTERNATE REQUIREMENTS NOT SHOWN ON THE DETAILS.
- 12.ALL PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE FLORIDA BUILDING CODE PLUMBING SECTION, AND LOCAL REGULATORY REQUIREMENTS.

CONSTRUCTION

- . SURVEY INFORMATION AND LEGAL DESCRIPTIONS SHOWN HEREON WERE OBTAINED BY OTHERS. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT MAY HAVE BEEN ALTERED WITHOUT THE EOR'S KNOWLEDGE. THE CONTRACTOR SHALL VERIFY THIS INFORMATION AND BE FAMILIAR WITH ALL SITE CONDITIONS (INCLUDING SUB-SURFACE CONDITIONS AND UTILITIES) PRIOR TO COMMENCING THE WORK. DAMAGES TO ANY EXISTING FACILITIES (ABOVE-GROUND AND UNDERGROUND) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHETHER OR NOT
- 2. CONTRACTOR SHALL LOCATE PROPERTY LINES AS REQUIRED TO AVOID ENCROACHMENT ONTO ADJACENT PROPERTY.
- 3. ANY U.S.C. & G.S. MONUMENTS FOUND WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.
- 4. PROPERTY FENCING AND/OR WALLS ON THE PERIMETER OF THE SITE ARE TO BE FIELD VERIFIED WITH ADJACENT PROPERTY OWNERS AS TO WHO OWNS OR MAINTAINS THE FENCE/WALL, REGARDLESS OF WHETHER OR NOT SHOWN HEREON TO BE REMOVED OR IF CONSIDERED AN ENCROACHMENT ON THE WORK TO BE PERFORMED. ANY DAMAGE TO OR REMOVAL OF FENCING/WALLS OWNED OR MAINTAINED BY AN ADJACENT PROPERTY OWNER IS TO BE FULLY REPLACED WITH A SIMILAR FENCE/WALL, TO THE SATISFACTION OF THE ADJACENT PROPERTY OWNER, AT THE EXPENSE OF THE
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THE STAKEOUT SURVEYOR HAS THE MOST CURRENT SET OF PLANS, INCLUDING ALL RECENT REVISIONS MADE BY ADDENDUM OR REQUEST FOR INFORMATION (RFI), AND REGARDLESS IF STAKEOUT IS CONTRACTED THROUGH STANTEC'S SURVEY DEPARTMENT.
- 6. UPON REQUEST, ELECTRONIC DATA (IN AUTOCAD FORMAT) ASSOCIATED WITH THESE SITE PLANS WILL BE PROVIDED FOR CONSTRUCTION LAYOUT PURPOSES. HOWEVER, THE ENGINEER OF RECORD (EOR) WILL IN NO WAY BE RESPONSIBLE FOR ANY ADVERSE RESULTS IF THE ELECTRONIC DATA IS USED BY OTHERS FOR CONSTRUCTION PURPOSES (REGARDLESS OF WHETHER OR NOT THE ELECTRONIC DATA CONTAINS ERRORS).
- 7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE EOR FOR APPROVAL A MINIMUM OF SEVEN (7) WORKING DAYS IN ADVANCE OF THE CONTRACTOR'S NEED FOR THE SAME. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 8. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND VERIFY ALL FIELD CONDITIONS BEFORE ORDERING ANY MATERIALS AND CASTING ANY STRUCTURES AS SHOWN.
- 9. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES, INCLUDING BUT NOT LIMITED TO THE ONES SHOWN ON THE COVER SHEET.
- IO.IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. THE LAYOUTS INDICATED IN THE PLANS ARE NOT EXACT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT
- 11.CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY CONSTRUCTION TRAFFIC RELATED ACCESS POINTS TO THE PROJECT SITE AND/OR SPECIFIC AREAS OF WORK ON THE PROJECT SITE AS NECESSARY.
- 12.ALL STORMWATER, WATER AND SANITARY SEWER LINES SHALL BE INSPECTED PRIOR TO BACKFILL. CONTRACTOR SHALL COORDINATE SCHEDULING OF ALL INSPECTIONS.
- 13.THE CONTRACTOR SHALL PROVIDE THE EOR WITH AS-BUILT SURVEYS PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR OF ALL WATER, SANITARY SEWER AND STORMWATER MANAGEMENT SYSTEMS AS REQUIRED BY THE FDEP AND THE SWFWMD. SANITARY SEWER AS-BUILTS SHALL BE REVIEWED AND APPROVED BY THE EOR PRIOR TO CONSTRUCTING
- 14.ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- 15.ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION
- EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. 16 RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO CONDITIONS PRIOR TO CONSTRUCTION, SPECIAL CARE SHOULD BE TAKEN TO RESTORE OFF-SITE AREAS DISTURBED BY CONSTRUCTION. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, ETC. WITH MATERIALS OF THE SAME TYPE OR BETTER THAN THA

REMOVED DURING CONSTRUCTION.

- . DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- 2. SIGNS AND BARRICADES TO BE ACCORDING TO FDOT MANUAL OF SAFE PRACTICES; REFERENCE FDOT INDEXES 600 THRU
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MAINTENANCE OF TRAFFIC AND PEDESTRIAN CONTROL PER APPROPRIATE FDOT SPECIFICATIONS. SEE FDOT INDEX NUMBERS 600 THROUGH 660.
- 4. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- . CONTRACTOR SHALL PROVIDE AND MAINTAIN HIS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH HIS HEALTH AND SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING HIS EMPLOYEES AND SUBCONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUBCONTRACTORS AND SUBCONTRACTORS' EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT PERCEIVED AS THE ENTIRE SAFETY PROGRAM,
- ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO
- THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P. WHERE TRENCH EXCAVATION EXCEEDS FIVE (5) FEET IN DEPTH, LAWS OF FLORIDA, CHAPTER 90-96, SHALL BE FOLLOWED FOR TRENCH SAFETY. THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

WITH A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE AND A TRENCH SAFETY SYSTEM DESIGN.

- THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN
- 10.ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL AND TRAFFIC DESIGN STANDARD INDEX PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- 1.IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- 12.THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE (1-800-432-4770) TO ARRANGE FIELD LOCATIONS.

3. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION, UNLESS

ALTERATION TO THE CONSTRUCTION OR MATERIALS SHOWN ON THESE PLANS.

- ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT 14.WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF
- MORE THAN ONE HOUR, CONTRACTOR SHALL PROVIDE PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS PER FDOT INDEX 660. UNLESS OTHERWISE NOTED.

PERMITS WILL BE OBTAINED BY THE CONTRACTOR FOR THE CLOSING OF SIDEWALKS IN THE RIGHT-OF-WAY. SIDEWALKS

15.CONTRACTOR SHALL SECURE ALL OPENINGS UNDER CONSTRUCTION AT THE END OF EACH WORKING DAY.

TREE/WETLAND PROTECTION & LANDSCAPING

- 1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE T CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. PROTECTIVE BARRICADES SHALL REMAIN N PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM LOCAL REGULATORY AGENCY AND THE OWNER.
- 2. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AS NECESSARY FOR CONSTRUCTION. DISTURBED AREAS, NOT OTHERWISE STABILIZED, WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL
- 3. ALL MECHANICAL FOUIPMENT SHALL BE SCREENED BY VEGETATION OR OTHERWISE, WHETHOR OR NOT SHOWN HEREON. CONTRACTOR TO COORDINATE WITH THE LANDSCAPE ARCHITECT, ARCHITECT, OWNER OR ENGINEER OF RECORD (EOR), AS APPLICABLE.
- 4. EXISTING TREES & LANDSCAPING SHOWN ON THESE PLANS. SEE PROPOSED LANDSCAPING PLAN FOR TREE RELOCATION OR REMOVAL AND NEW LANDSCAPING. CONTRACTOR SHALL CONTACT THE EOR AND/OR OWNER PRIOR TO ANY CONSTRUCTION THAT MAY DAMAGE TREES WHICH ARE NOT MARKED TO BE REMOVED.
- 5. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION (EXCEPT BY HAND) BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE LOCAL REGULATORY AGENCY.
- 6. TREE LIMBS SHALL BE PRUNED AS REQUIRED FOR NEW CONSTRUCTION. WHEN TREE LIMBS OVERHANG EXISTING OR NEW VEHICULAR USE AREAS, THE CONTRACTOR SHALL PRUNE SUCH TREES TO PROVIDE CLEARANCE MEETING THE STANDARDS SET FORTH BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. PRUNING SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- 7. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LOCAL CODES SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- 8. GRASS SOD AND SEED SHALL BE BAHIA, UNLESS OTHERWISE SHOWN ON THE LANDSCAPE PLANS. SEED AND MULCH ALL AREAS LEFT BARREN FROM CONSTRUCTION, UNLESS OTHERWISE SHOWN. SOD ALL SLOPES GREATER THAN 5:1, WHETHER OR NOT SHOWN HEREON. ALL RETENTION POND BANKS SHALL BE SODDED, REGARDLESS OF SLOPE, TO THE POND BOTTOM FOR DESIGNED DRY PONDS OR THE WATER LINE AT THE TIME OF INSTALLATION FOR DESIGNED WET PONDS. STEEP SLOPES TO BE SODDED AS SOON AS POSSIBLE AFTER FINE GRADING TO PREVENT EROSION

- 1. ALL FILL SHALL CONSIST OF SATISFACTORY SOIL MATERIALS, DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS [GW, GP, GM, SW, SM AND SP] FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS AND OTHER SIMILAR UNSUITABLE MATERIALS. UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS [GC, SC, ML, MH, CL, CH, OL, OH, AND PT]. UNLESS OTHERWISE NOTED, ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% AASHTO T-180, METHOD D.
- 2 REMAINING FARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE LITHLIFED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR ENGINEER OF RECORD (EOR), OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- 3. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE EOR, OR SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE
- PREPARATION AND EARTHWORK. REFER TO SUBSURFACE EXPLORATION REPORT PREPARED BY OTHERS FOR RECOMMENDATIONS.
- 5. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED HE GEOTECHNICAL TESTING COMPANY OR THE EOR AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE ABOVE REFERENCED SOILS REPORT

4. GEOTECHNICAL ENGINEERING CONSULTATION AND OBSERVATION SHOULD BE EXERCISED DURING ALL PHASES OF SITE

- 6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO THE LOCAL REGULATORY AGENCY OR THE EOR SPECIFICATIONS. UPON COMPLETION OF PROPOSED CONSTRUCTION, THE PROJECT'S SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE EOR STATING THAT ALL
- 7 A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING. THE EOR WILL REVIEW THE TESTING REPORTS FOR COMPLIANCE WITH THE REQUIRED SPECIFICATIONS, BUT MAKES NO CLAIM AS TO THE CONTRACTOR'S PROPER MEANS AND METHODS OF EARTHWORK OPERATIONS THAT TOOK PLACE DURING CONSTRUCTION BY DOING SO.

STORM DRAINAGE

- 1. REFERENCED STANDARD INDEX NUMBERS REFER TO DETAILS DEPICTED IN THE FDOT "DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM", LATEST EDITION. UNI ESS OTHERWISE SHOWN.
- 2. CONTRACTOR TO SUBMIT PROPOSED STORM PIPE MATERIALS FOR APPROVAL BY THE ENGINEER OF RECORD (EOR). ALL REINFORCED CONCRETE PIPE (RCP) USED FOR STORM DRAINAGE TO BE CLASS III (ASTM 6-76-72A), WALL B. UNLESS OTHERWISE NOTED ON PLANS. ALL POLYVINYL-CHLORIDE (PVC) OR POLYETHYLENE (PE) PIPE USED FOR STORM DRAINAGE TO MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 948 - MISCELLANEOUS TYPES OF PIPE. ACCEPTABLE STORM PIPE MATERIALS; RCP, A-2000 PVC (12"-36"), ADS N-12HP HDPE (12"-36"), N-12WT (HDPE) ONLY FOR PIPES LESS THAN 12" DIAMETER.
- 3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURE WITH THE EXCEPTION OF MITERED
- 4. ALL DRAINAGE STRUCTURE TOPS AND COVERS SHALL BE HEAVY DUTY TRAFFIC RATED FOR H-20 LOADINGS. ALL FDOT INLET GRATES TO BE CAST IRON OR STEEL CHAINED TO INLETS PER FDOT INDEX #201
- 5. AREA ADJACENT TO THE PROPOSED STRUCTURE SHALL BE GRADED AS REQUIRED TO INSURE ALL ROOF RUNOFF IS
- 6. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE ENGINEER OF RECORD (EOR) PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE EOR 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION. 7. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE
- 8. CONSTRUCT STORMWATER POND(S) AT THE BEGINNING OF PROJECT CONSTRUCTION. POND(S) TO BE GRADED AND

MAINTAINED TO REMAIN FUNCTIONALLY EFFECTIVE DURING ALL PHASES OF CONSTRUCTION.

- 9. DOWNSPOUT COLLECTOR PIPE LENGTHS ARE SHOWN FOR MAIN PIPE RUNS ONLY (FOR CLARITY PURPOSES). BUT ADDITIONAL ROOFDRAIN PIPE MAY HAVE TO BE INSTALLED TO COLLECT ALL DOWNSPOUTS AND CANOPY COLUMN DRAINAGE
- 10.SEE SITE UTILITY PLANS FOR FLOOR DRAIN AND CONDENSATE CONNECTIONS TO STORM SYSTEM. FLOOR DRAINS AND CONDENSATE LINES SHALL NOT BE CONNECTED TO ROOFDRAIN COLLECTION SYSTEM UNLESS BACKWATER VALVE IS
- 11.ABBREVIATIONS: DS-DOWNSPOUTS, RD-ROOFDRAINS, EL-ELEVATION, INV-INVERTS, FF-FINISHED FLOOR, TOS-TOE OF SLOPE, TOB-TOP OF BANK, FD-FLOOR DRAIN

- 1. CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION OF POTABLE WATER AND/OR SANITARY SEWER COLLECTION SYSTEMS PRIOR TO ASSURING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) PERMITS HAVE BEEN ACQUIRED. CONTRACTOR SHALL REVIEW SPECIFIC CONDITIONS DEPICTED ON FDEP PERMITS, WHICH MAY NOT BE SHOWN HEREON.
- 2. CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THE MAKING OF ADJUSTMENTS TO SAME, IF REQUIRED. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY OWNERS PRIOR TO CONSTRUCTION.
- 3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE FEASIBILITY OF CONSTRUCTING GRAVITY SEWER SYSTEMS (IE. VERIFY EXISTING INVERTS AT POINTS OF CONNECTION, EXIT INVERTS OF BUILDING PLUMBING, GREASE TRAP CONFIGURATION, MINIMUM SLOPES, ETC.).
- 4. PIPE LENGTHS, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS REQUIRED, UTILIZING DEFLECTION OR FITTINGS AS NECESSARY. CONTRACTOR TO PROVIDE REDLINE MARKUPS AND CERTIFIED AS-BUILT SURVEYS OF ALL FIELD CHANGES MADE. PRIOR TO BACKFILL, IT MAY BE NECESSARY TO PROVIDE OPEN PIPING ABOVE GRADE TO EACH DEFLECTION OR FITTING LOCATION SO ACCURATE AS-BUILT INFORMATION MAY BE OBTAINED. CONTRACTOR TO ASSURE THIS IS DONE AT EACH CHANGE OF DIRECTION OR ELEVATION, OR RE-EXCAVATION FOR SURVEYING WILL BE
- 5. PORTIONS OF WORK AND/OR MATERIALS FOR THE UTILITY CONNECTIONS MAY BE PROVIDED BY THE GOVERNING
- 6. WATER AND SANITARY SEWER SYSTEMS SHALL NOT BE PLACED INTO SERVICE UNTIL INSPECTED AND APPROVED BY THE FDEP AND OTHER PERTINENT REGULATORY AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND OBTAINING THE FOLLOWING ITEMS:
- B) CURRENT BACTERIOLOGICAL TEST RESULTS
- C) PRESSURE, EXFILTRATION AND OTHER APPROPRIATE TEST RESULTS
- D) LOCATING WIRE CONTINUITY TESTS E) AS-BUILT SURVEYS
- ALL APPLICABLE ITEMS ABOVE SHALL BE PROVIDED TO THE ENGINEER OF RECORD (EOR) A MINIMUM OF 60 DAYS PRIOR TO FINAL ACCEPTANCE AND PLACEMENT INTO OPERATION.

PAVING & GRADING

- 1. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED SIDEWALK, PAVEMENT, SLAB, STRUCTURE TOP, OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 2. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING
- 3. CURBING WILL BE PLACED IN LOCATIONS SHOWN ON THE PLANS TO THE DIMENSIONS AND SPECIFICATIONS SHOWN ON THE DETAILS PROVIDED, LOCAL REGULATORY REQUIREMENTS, OR PER FDOT DESIGN STANDARDS. CONTRACTOR TO VERIFY LOCATIONS AND DIMENSIONS WITH THE ENGINEER OF RECORD (EOR) PRIOR TO POURING CONCRETE.
- 4. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH REMOVABLE, PERFORATED JOINT CAPS AND SELF-LEVELING JOINT SEALER AT FULL DEPTH ABUTMENTS OF CONCRETE AND OTHER MATERIALS (BUILDINGS,
- OTHER POURED CONCRETE, ETC.), UNLESS OTHERWISE NOTED ON DRAWINGS. 3" FLEXIBLE EXPANSION JOINTS MATERIAL, WITH SELF-LEVELING JOINT SEALÉR SHALL BE USED AROUND CURVED EMBEDMENTS. 5. ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT, LEAD FREE MATERIAL. THERMOPLASTIC PER FDOT SPECIFICATIONS AT DRIVEWAY INTERSECTIONS AND IN RIGHTS-OF-WAY. FAST DRY TRAFFIC PAINT (WATER BORNE) PER
- FDOT SPECIFICATIONS FOR PARKING LOT STRIPING AND ON-SITE TRAFFIC MARKINGS. PROVIDE PAVEMENT MARKINGS AS SHOWN PER FDOT INDEX NO. 17346. 6. ALL DIMENSIONS ARE TO OUTSIDE WALL OF BUILDING, ASSUMED CENTER POINT OF EXISTING TREE TRUNK (PER SURVEY
- SYMBOL). FRONT FACE OF CURB/SIDEWALK, EDGE OF PAVEMENT (IF NO CURB) PAVEMENT STRIPING CENTERLINE, OR PROPOSED TOP OF BANK/TOE OF SLOPE, UNLESS OTHERWISE NOTED. 7. PRIOR TO BASE OR PAVING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE ALL NEW OR FUTURE UNDERGROUND

UTILITIES, I.E. ELECTRIC, IRRIGATION, PVC SLEEVES OR CONDUITS, ETC., HAVE BEEN INSTALLED, INSPECTED AND AS-BUILT.

THE NECESSARY SLEEVES/CONDUITS ARE PROVIDED AND SHALL COORDINATE THE LOCATIONS WITH THE CONSTRUCTION 8. ALL PEDESTRIAN ROUTES, SIDEWALKS AND RAMPS, AS WELL AS ALL HANDICAPPED SIGNS, SYMBOLS, PARKING SPACES, ETC. SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL ADA REQUIREMENTS WHETHER OR NOT SHOWN HEREON. CONTRACTOR SHALL VERIFY REQUIREMENTS WITH LOCAL INSPECTORS PRIOR TO POURING

SIDEWALKS AND RAMPS.

- 1. PROVIDE TRAFFIC SIGNAGE SHOWN PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. UNLESS OTHERWISE SHOWN. INSTALL TRAFFIC SIGNAGE PER FDOT INDEX #17302. SEE ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE REQUIREMENTS. AS APPLICABLE.
- 2. INSTALL SIGNAGE SO THAT THE BOTTOM EDGE OF THE BOTTOM SIGN IS AT LEAST 7'-0" ABOVE FINISHED GRADE AT THE SIGN POST, THE ADJACENT EDGE OF PAVEMENT (E.O.P.) OR THE ADJACENT TOP OF CURB, WHICHEVER IS GREATER. SIGN POSTS TO BE 11' LONG.
- 3. INSTALL SIGNAGE SO THAT THE VERTICAL EDGE OF THE SIGN CLOSEST TO THE ROAD IS AT LEAST 2' HORIZONTALLY FROM THE ADJACENT E.O.P.

HISTORICAL PRESERVATION NOTE

IF DURING CONSTRUCTION ACTIVITIES, ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC POTTERY, FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND THE LOCAL REGULATORY AGENCY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES BEING FOUND ON THE SITE.

RECORD DRAWING REQUIREMENTS

- THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
- A.DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
- B.DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, WATER AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC
- ORDER OR BY CHANGE ORDER. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

C.DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD

- D.LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS. E.DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE FIELD VERIFIED AND SHOWN. THE INVERTS AND GRADE
- ELEVATIONS OF ALL INLETS AND MANHOLES SHALL BE SHOWN. F.EACH SHEET OF THE PLANS SHALL BE SIGNED. SEALED AND DATED BY A REGISTERED SURVEYOR WITH A NOTE READING

"THESE AS-BUILTS DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

STORMWATER SYSTEM OPERATION & MAINTENANCE

- THE OPERATION AND MAINTENANCE ENTITY FOR THE DEVELOPMENT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE PONDS SURFACE AND SUBSURFACE DRAINAGE SYSTEMS. THIS WILL REQUIRE INSPECTION, ON AT LEAST AN ANNUAL BASIS OF THE ON-SITE DRAINAGE SYSTEM, INCLUDING BUT NOT LIMITED TO INLETS, STORM MANHOLES, STORM PIPES, DITCHES, SWALES, DETENTION AREAS, AND CONTROL STRUCTURES, MAKING SURE THAT THE SYSTEM IS FREE FROM EXCESS SIL DEBRIS AND SEDIMENTATION BUILD-UP. THIS MAY REQUIRE PERIODIC MAINTENANCE AS DESCRIBED BELOW AND AS NEEDED MAINTAIN THE VIABILITY OF THE ORIGINAL DESIGN INTENT. THE WORK SPECIFIED CONSISTS OF THE OPERATION AND MAINTENANCE ACTIVITIES REQUIRED TO INSURE CONTINUED AND PROPER PERFORMANCE OF THE STORMWATER MANAGEMENT SYSTEM. THE OPERATION AND MAINTENANCE ENTITY SHOULD PERFORM THE FOLLOWING OPERATION AND MAINTENANCE
- 1. PONDS & SWALES SHALL BE PERIODICALLY MOWED AND CLEANED. DURING THE MOWING OPERATION, PONDS & SWALES SHALL BE INSPECTED FOR BARE SPOTS, DAMAGE, AND EROSION. ANY BARE SPOTS GREATER THAN ONE SQUARE FOOT IN AREA SHALL BE SODDED TO REPLACE THE GRASS COVER. IN CASE OF EROSION OR DAMAGE WHERE UNDERLYING SOIL IS MISSING, THE MISSING SOIL SHALL BE REPLACED AND THE AREA BROUGHT TO GRADE, THEN SODDED AS REQUIRED.
- 2. INLET GRATES WILL BE CHECKED MONTHLY FOR DAMAGE OR BLOCKAGE. ANY DAMAGED GRATES WILL BE REPLACED OR REPAIRED. ANY DEBRIS BLOCKING FULL FLOW THROUGH THE GRATE WILL BE REMOVED.
- 3. PIPES & INLETS WILL BE INSPECTED YEARLY FOR DAMAGE OR BLOCKAGE. ANY DAMAGED PIPES OR INLETS WILL BE REPAIRED OR REPLACED. ANY TRASH, DEBRIS, OR SAND DEPOSITS WILL BE REMOVED.
- 4. DISCHARGE STRUCTURES AND CONTROL DEVICES SHOULD BE MAINTAINED OPERATIONAL BY ELIMINATING CLOGGING OF THE BAFFLES, GRATES, ETC., CAUSED BY TRASH, DEBRIS AND SEDIMENT. THE INSPECTION FOR PROPER OPERATION AND MAINTENANCE OF THESE DEVICES SHOULD BE CONDUCTED QUARTERLY. ADDITIONAL MONITORING AND MAINTENANCE SHOULD BE CONDUCTED AFTER SEVERE RAINFALL EVENTS.
- 5. DRY DETENTION AND RETENTION AREAS SHOULD BE MAINTAINED OPERATIONAL BY REMOVING SEDIMENTS, TRASH AND INVADER VEGETATION WHICH CAN HINDER PROPER FUNCTIONING. THE INSPECTION SHOULD BE CONDUCTED QUARTERLY. ADDITIONAL MONITORING AND MAINTENANCE SHOULD BE CONDUCTED AFTER SEVERE RAINFALL EVENTS.
- 6. ALL GRASS IN THE DRY POND AREA SHOULD BE MOWED PERIODICALLY AND ALL CLIPPINGS RECOVERED AND DISPOSED OF OFF-SITE. IF PERCOLATION BECOMES RESTRICTED DUE TO A BUILD UP OF FINES THE BOTTOM MUST BE CLEANED AND REGRADED TO DESIGN ELEVATIONS.

LAND SURVEYING

- 1. TOPOGRAPHIC SURVEY PROVIDED BY BAYSIDE ENGINEERING & SURVEYING
- 2. TEMPORARY BENCHMARKS ARE SHOWN ON THESE PLANS, PROVIDED BY BAYSIDE ENGINEERING & SURVEYING.
- 3. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, U.S. SURVEY FEET.
- 4. ALL BENCHMARKS USED FOR CONSTRUCTION LAYOUT SHALL BE VERIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER PRIOR TO USE, TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD (EOR) IN WRITING.
- 5. ALL FIELD SURVEY LAYOUT FOR THE FACILITIES SHOWN ON THE CONSTRUCTION DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT THEIR OWN EXPENSE.

CITY OF TAMPA PUBLIC WATER SYSTEM NOTES

- 1. WATER SERVICE IS TO BE PROVIDED BY THE CITY OF TAMPA WATER DEPARTMENT (TWD).
- 2. TAP(S) OF CITY WATER MAINS ARE TO BE PERFORMED BY TWD PERSONNEL ONLY. THE CONTRACTOR SHALL EXCÀVATE, FURNISH & INSTALL APPROVED TAPPING SLEEVE AND CONDUCT PRESSURE TESTING OF THE TAPPING SLEEVE, TO BE WITNESSED BY TWD. CITY PERSONNEL WILL PERFORM THE ACTUAL TAP. CONTACT TWD CHIEF CONSTRUCTION ENGINEER ZACH WORLEY AT 635-3432 AT LEAST 10 WORKING DAYS PRIOR TO THE INTENDED CONNECTION TO COORDINATE THE TAP WITH THE CITY.
- 4. VALVES ON EXISTING PUBLIC WATER MAINS ARE TO BE OPERATED BY CITY PERSONNEL ONLY.
- 5. CONSTRUCTION OF ANY WATER INSTALLATIONS TO BE CITY-OWNED SHALL BE COORDINATED WITH TWD PRIOR TO THE START OF CONSTRUCTION. CONTACT TWD TECHNICAL SERVICES (635-3432) A MINIMUM OF 10 WORKING DAYS PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING FOR REVIEW OF INSTALLATION TECHNIQUES AND PROCEDURES.
- 6. ALL WATER WORK FOR CITY OWNERSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE TWD TECHNICAL MANUAL, LATEST EDITION, AND WITH ALL APPLICABLE CONSTRUCTION DETAILS THEREIN. THESE DETAILS AND STANDARDS SHALL BE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.

THE TWD TECHNICAL MANUAL. ALL DEVELOPER INSTALLED CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE

- 7. PRIOR TO PRE-CONSTRUCTION MEETING WITH TWD, THE CONTRACTOR SHALL OBTAIN THE LATEST EDITION OF
- 8. RESTRAIN ALL JOINTS OF ALL DIP WATER MAIN AND FITTINGS FROM THE TAP OF THE MAIN TO THE IF PAVING IS TO OCCUR BEFORE THE INSTALLATION OF ANY UNDERGROUND UTILITIES, THE CONTRACTOR SHALL ENSURE TEMPORARY PLUG AT THE POINT OF SERVICE.

TO CONFORM TO THE LATEST TWD SPECIFICATIONS AS OUTLINED IN THE TECHNICAL MANUAL.

- 9. POLYWRAP ALL DIP WATER MAIN AND FITTINGS EXCEPT THOSE INSIDE VAULTS IN ACCORDANCE WITH TWD STANDARD DETAIL 2.05.
- 10.ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES UNLESS OTHERWISE NOTED. WATER MAINS SHALL BE LOCATED 5 FEET OFF THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- 11.WHENEVER THE DEPTH OF COVER OVER WATER MAINS IS LESS THAN 30 INCHES, A SHOCK PAD SHALL BE INSTALLED IN ACCORDANCE WITH TWD STANDARD DETAIL 2.06. ANY WATER MAIN WITH LESS THAN 36 INCHES OF COVER MUST BE APPROVED BY TWD.
- 12.ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH TWD SPECIFICATIONS. ALL DUCTILE IRON PIPE (DIP) SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C-151/A21.51. PIPE SHALL BE LINED WITH A STANDARD-THICKNESS CEMENT-MORTAR LINING AND SEAL COATED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C104/A21.4 AND NSF 61. PIPE SHALL BE PRESSURE CLASS 350.
- 13.JOINTS OF ALL DIP SHALL BE PUSH-ON JOINTS CONFORMING TO AWWA STANDARD C-111/A21.11.
- 14.ALL WATER MAIN FITTINGS SHALL BE DUCTILE IRON AND MECHANICAL JOINT, WEDGE-ACTION RESTRAINTS SUCH AS EBBA MEGA-LUG OR APPROVED EQUAL SHALL BE INSTALLED TO JOIN THE FITTINGS TO THE PIPE.
- 15.CONCRETE THRUST BLOCKS SHALL NOT BE USED FOR THRUST RESTRAINT. RESTRAINT OF PUSH-ON DIP JOINTS (OTHER THAN FOR FITTINGS) SHALL BE WITH APPROVED GASKET-TYPE "GRIPPER" RESTRAINT DEVICES SUCH AS AMERICAN "FAST-GRIP" OR U.S. PIPE "FIELD-LOK" GASKETS.
- 16.BENDS SHALL BE INSTALLED ON DIP WATER MAIN AS NECESSARY TO MAINTAIN PROPER ALIGNMENT. DIP JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH AWWA C-600, LATEST EDITION, EXCEPT DEFLECTION ALLOWED SHALL BE LESS THAN 80% OF THE DEFLECTION VALUES GIVEN IN THE AWWA DEFLECTION TABLES.
- 18.CLEARANCE BETWEEN ALL TREES AND WATER MAINS SHALL MEET CITY OF TAMPA PARKS DEPARTMENT LATEST REQUIREMENTS. NO TREE SHALL BE PLANTED WITHIN 10 FEET OF INSTALLED OR EXISTING WATER MAINS.

WHO'S CLEARANCES SHALL BE AS SPECIFIED BY FDEP REGULATIONS AND BY THE TWD TECHNICAL MANUAL.

17.ALL WATER MAINS SHALL BE CONSTRUCTED IN A MANNER SUCH AS TO MAINTAIN A MINIMUM OF 3 FEET

HORIZONTAL SEPARATION FROM OTHER UTILITIES EXCEPT STORM SEWERS, SANITARY SEWERS AND GAS LINES,

CONSTRUCTION STANDARDS & SPECIFICATIONS:

- B. CITY OF TAMPA CODE OF ORDINANCES, CHAPTER 5, BUILDING CODE, CURRENT YEAR. C. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2014),
- (AKA: STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED. E. FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION (MARCH 2008).
- BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12" IN THICKNESS AND SHALL BE COMPACTED TO A MIN. OF 95% OF THE MODIFIED PROCTOR MAX. DRY DENSITY PER AASHTO T-180. 3. ALL SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 304 AND 310.

EARTHWORK / COMPACTION TESTING REQUIREMENTS

- QUALITY CONTROL TESTING DURING CONSTRUCTION: ALLOW TESTING SERVICE TO INSPECT AND APPROVE EACH SUBGRADE ND FILL LAYER BEFORE FURTHER BACKFILL OR CONSTRUCTION WORK IS PERFORMED. RECOMMENDED TESTING IS AS
- ASPHALT OR CONCRETE PARKING/LOADING AREAS AND DRIVES. B) ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D 1556, WILL BE PERFORMED AROUND EACH MANHOLE OR INLET.
- C) ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D 1556, WILL BE PERFORMED PER 100 FEET OF TRENCHED UTILITIES FOR EACH LIFT. THERE SHALL BE A MINIMUM OF ONE TEST BETWEEN STRUCTURES.
- IF IN OPINION OF ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTION, SUBGRADE OF FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, PROVIDE ADDITIONAL COMPACTION AND TESTING AT NO ADDITIONAL CHARGE

- 1. ALL WORK SHALL CONFORM TO: A. FLORIDA BUILDING CODE (FBC) 6TH EDITION 2017.
- (AKA: STANDARD SPECS). D. FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS FOR STREETS AND HIGHWAYS ON STATE MAINTAINED SYSTEMS (2014),
- PIPE BACKFILL SHALL CONFORM TO F.D.O.T. SPECIFICATIONS SECTION 125-8. FILL SHALL

- A) ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D 1556, WILL BE PERFORMED PER 5,000 SQUARE FEET FOR
- D) FILL MATERIAL: MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2,000 SQUARE FEET OF FILL MATERIAL, BUT IN NO CASE LESS THAN FOUR TESTS. TESTS SHALL BE PERFORMED FOR EACH LIFT OF FILL
- ASPHALT CORES SHALL BE PERFORMED TO DEMONSTRATE FINISHED PAVING SECTION COMPLIES WITH CONSTRUCTION PLANS. A MINIMUM OF 1 CORE PER 1,200 SQUARE YARDS OF PAVING, EVENLY SPACED ALONG MAIN DRIVE ISLES, PER ASTM D-3549. ASPHALT CORES MUST DEMONSTRATE THE AVERAGE ASPHALT THICKNESS MEETS OR EXCEEDS THICKNESS INDICATED ON THE PLANS, PER FDOT STANDARDS.

STREET . 18-C-000

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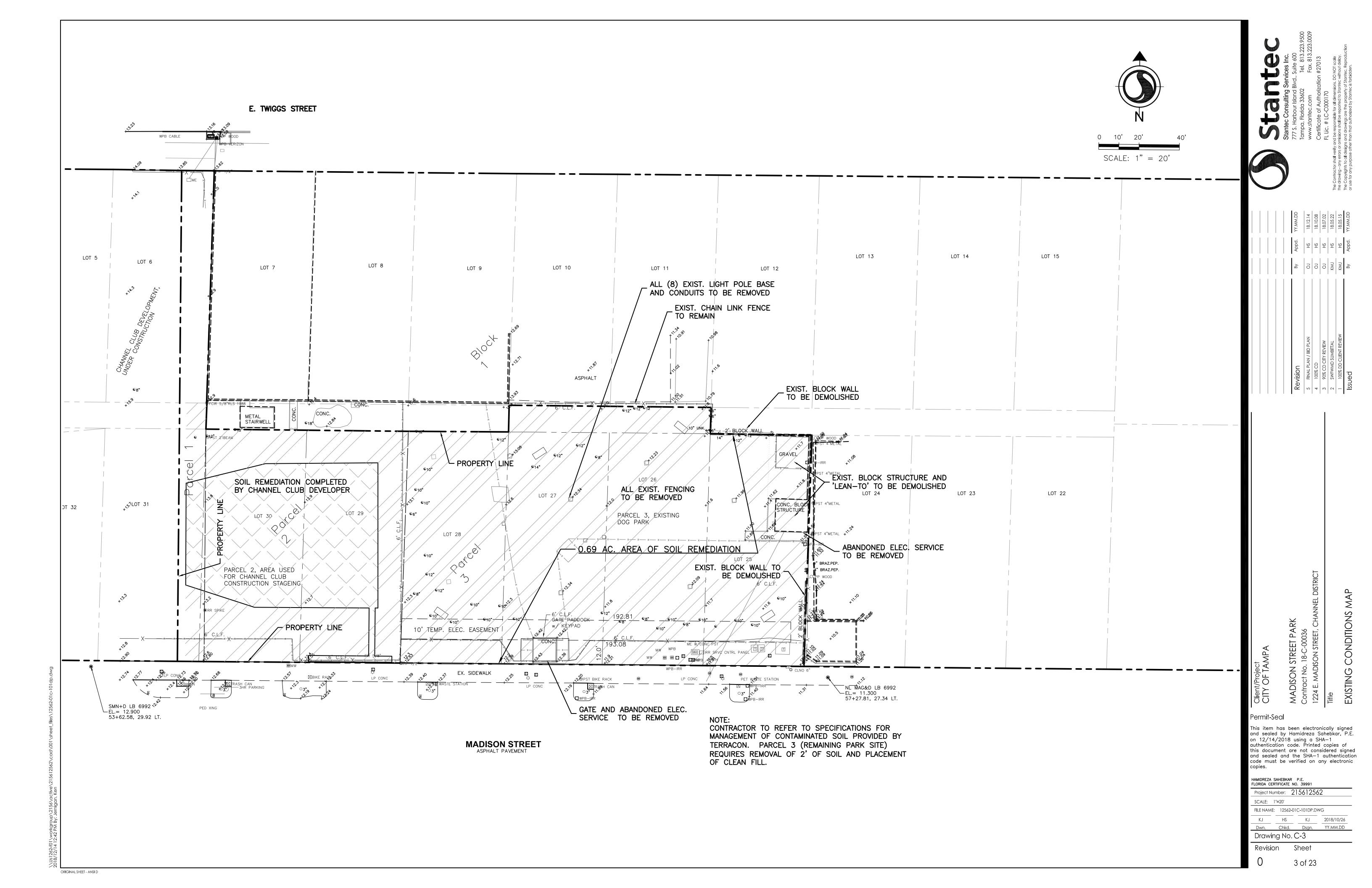
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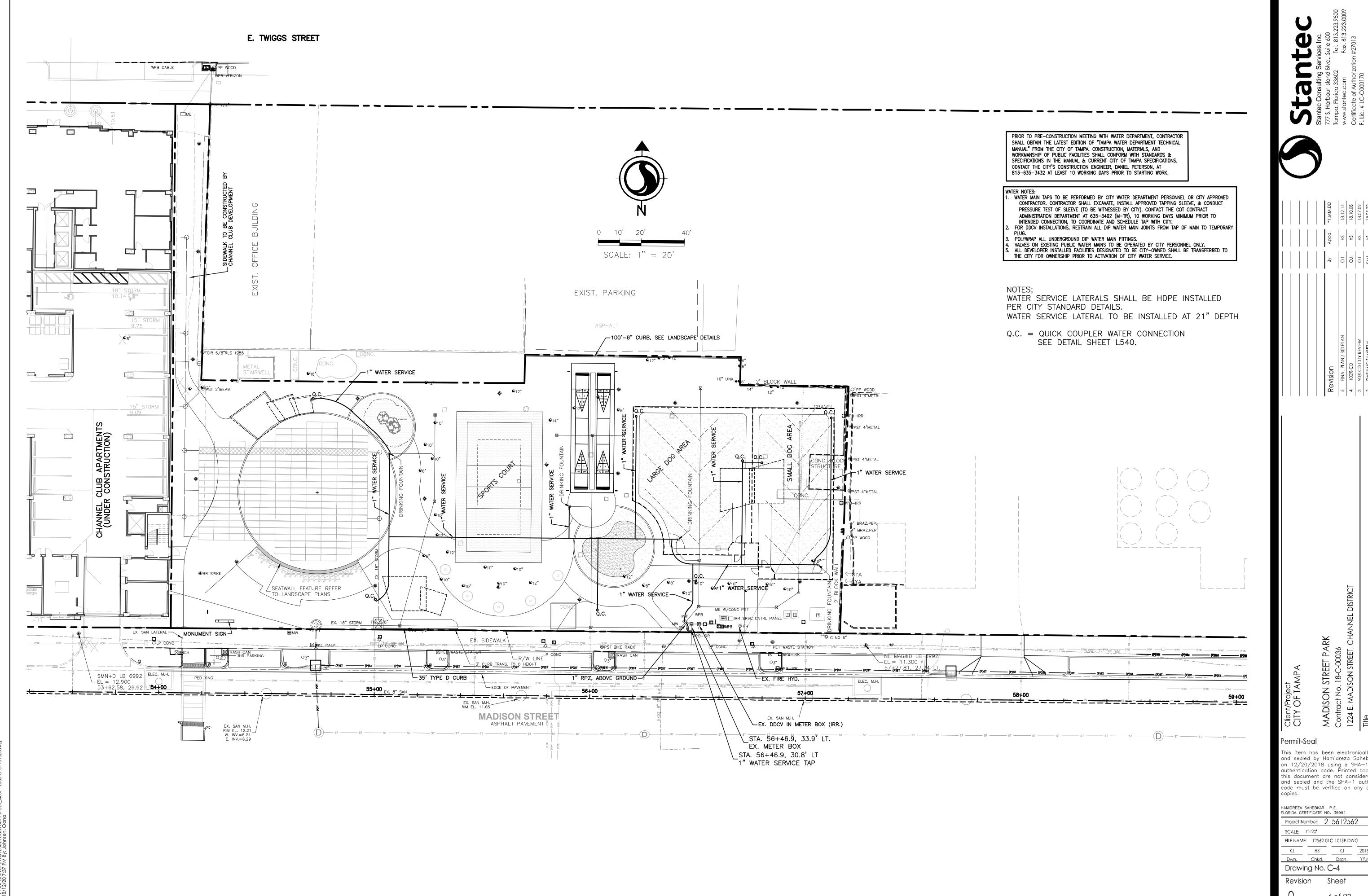
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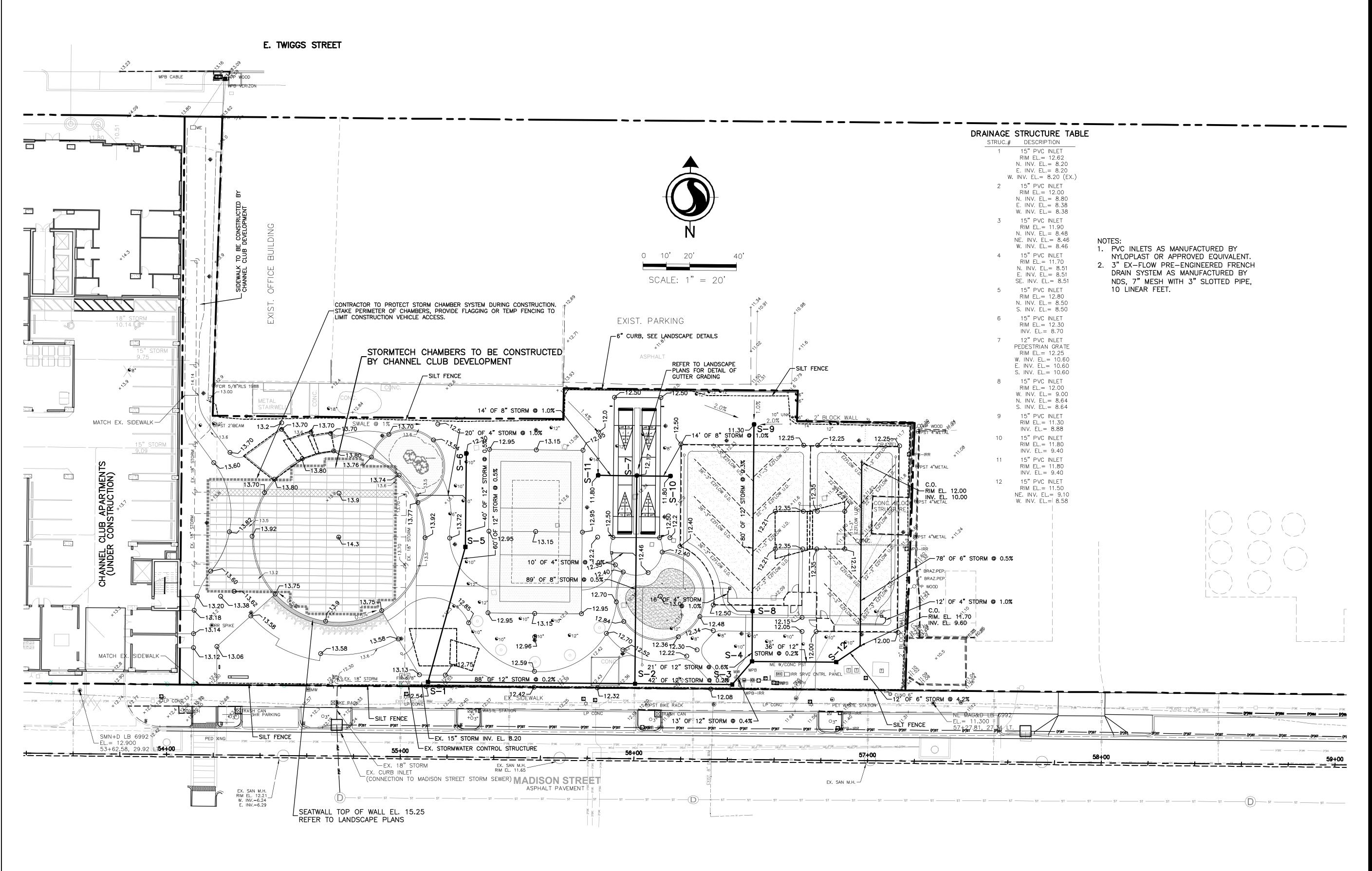
13.ANY SIDEWALK WHICH BECOMES UNDERMINED OR DAMAGED DURING CONSTRUCTION MUST BE REMOVED AND REPLACED.





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GENERAL NOTES

- 1. ALL NECESSARY AND NEEDFUL EROSION / SILTATION CONTROL BARRIERS SHALL BE IN PLACE THROUGHOUT THE COURSE OF CONSTRUCTION.
- 2. CONTRACTOR SHALL EVALUATE THE PROJECT AREA AND CONSTRUCTION STAGING TO DETERMINE IF ADDITIONAL EROSION CONTROL BARRIERS ARE NECESSARY ON A WEEKLY BASIS.

PROJECT IS PART OF A MASTER PLANNED COMMUNITY WITH CONCEPTUAL ERP PERMIT #49001660.041, AND WEST SIDE OF THE PARK IS INCLUDED IN CHANNEL CLUB BUILDING ERP PERMIT #44001660.049. THE EAST SIDE OF THE PARK IS TO RECEIVE CREDIT FROM CHANNEL DISTRICT VAULT FOR 0.55 ACRE AREA WITH 0.22 ACRE IMPERVIOUS.

FEMA FLOOD MAP 12057C0354H, ZONE X, DATE; AUG. 28, 2008



	YY,MM,DD	18.12.14	18.10.08	18.06.18	18.05.22	18.05.15	
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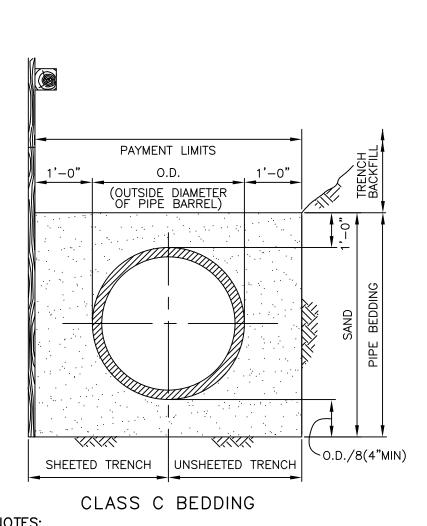
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HAMIDRE:	ZA SAH	HEBKAR	7 P	.E
FLORIDA	CERTII	FICATE	NO.	7

Project Nu	ımber: 2	156125	62						
SCALE:	1"=20'								
KMJ	HS	KWI	17.08.15						
Dwn.	Chkd.	Dsgn.	YY.MM.DD						
Drawing No. C-5									

Revision Sheet

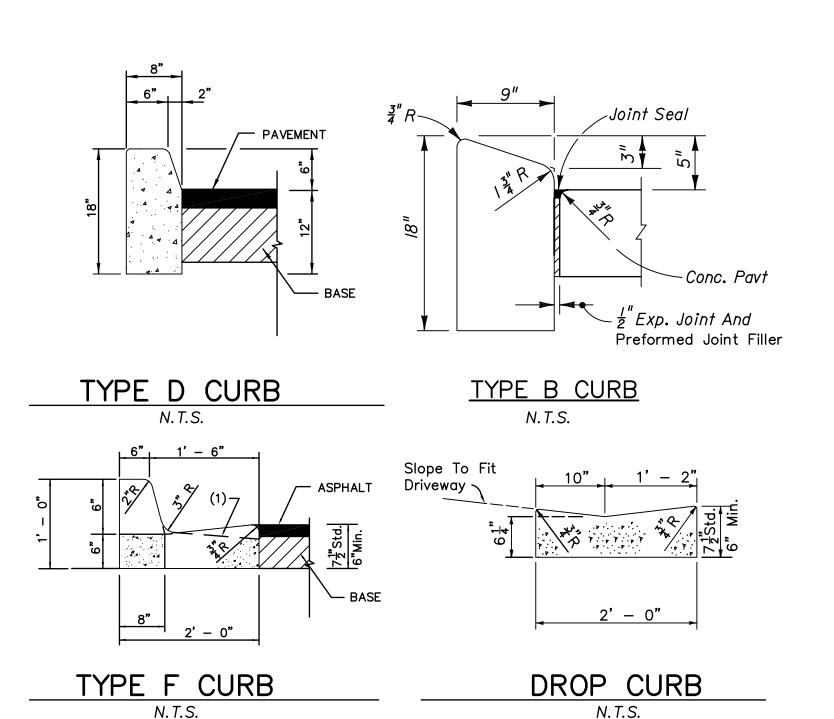
5 of 23



1 ALL TYPES OF PIPE BEDDING SHALL EXTEND TO UNDISTURBED EARTH AT SIDES AND BOTTOM OF THE TRENCH. 2. SAND AND CRUSHED STONE PIPE BEDDING SHALL BE PLACED

AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

CITY OF TAMPA WASTEWATER DEPT. TRENCH BACKFILL DETAIL



CURB NOTES:

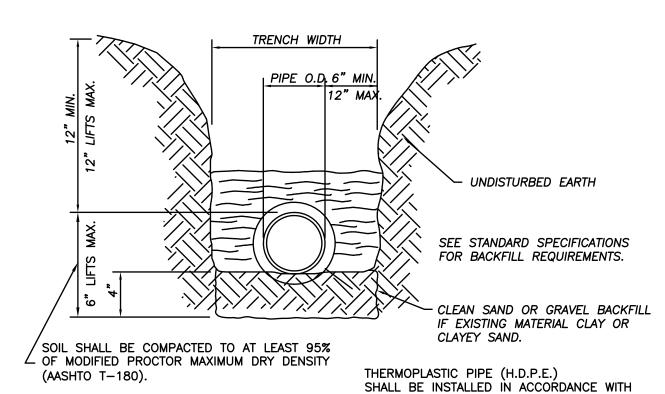
1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON

2. FOR CURB, GUTTER AND TRAFFIC SEPARATORS PROVIDE 1/8" - 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION 3. JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.

WHEN USED ON LOW SIDE OF ROADWAYS, LIP OF GUTTERS SHALL BE INSTALLED 1/4" BELOW THE EDGE OF

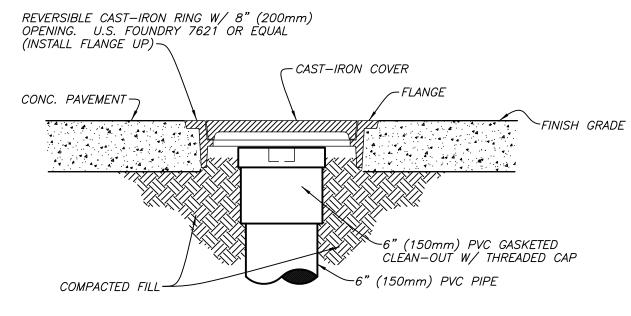
1 - 2.5 -INCH WASHED, CRUSHED, ANGULAR STONE FDOT #24 STONE ---AASHTO M288 CLASS 2 — - TOP ELEV. NON-WOVEN GEOTEXTILE VARIES, 13.40 MIN. TOP OF CHAMBER EL. 12.07 SEASONAL HIGH GROUND WATER ELEVATION 10.1 - BOTTOM OF GRAVEL ELEV. 10.24 lackbraceCOMPACTED SUBGRADE, 95% MAX. DRY DENSITY

TYPICAL CROSS SECTION EXIST. CHAMBER DETENTION SYSTEM N.T.S.



ASTM D 2321-89 (LATEST EDITION). STORMWATER TRENCH CROSS SECTION

N.T.S.



CLEAN-OUT W/ COVER FOR CONCRETE PAVED AREAS Not to Scale -REVERSIBLE CAST-IRON RING W/ 8" (200mm) OPENING. ~2'X2' CONC. PAD FINISH GRADE U.S. FOUNDRY 7621 OR EQUAL (INSTALL FLANGE UP) -CAST-IRON COVER BXVIXW WAXNIXW WAXN INAMANYINAMA WXINAM (150mm) PVC GASKETED NO. 4 BAR, CENTERED CLEAN-OUT W/ THREADED CAP ON EACH SIDE OF PAD -

CLEAN-OUT W/COVER FOR GRASSED AREAS W/VEHICULAR TRAFFIC Not to Scale

6" (150mm) PVC PIPE

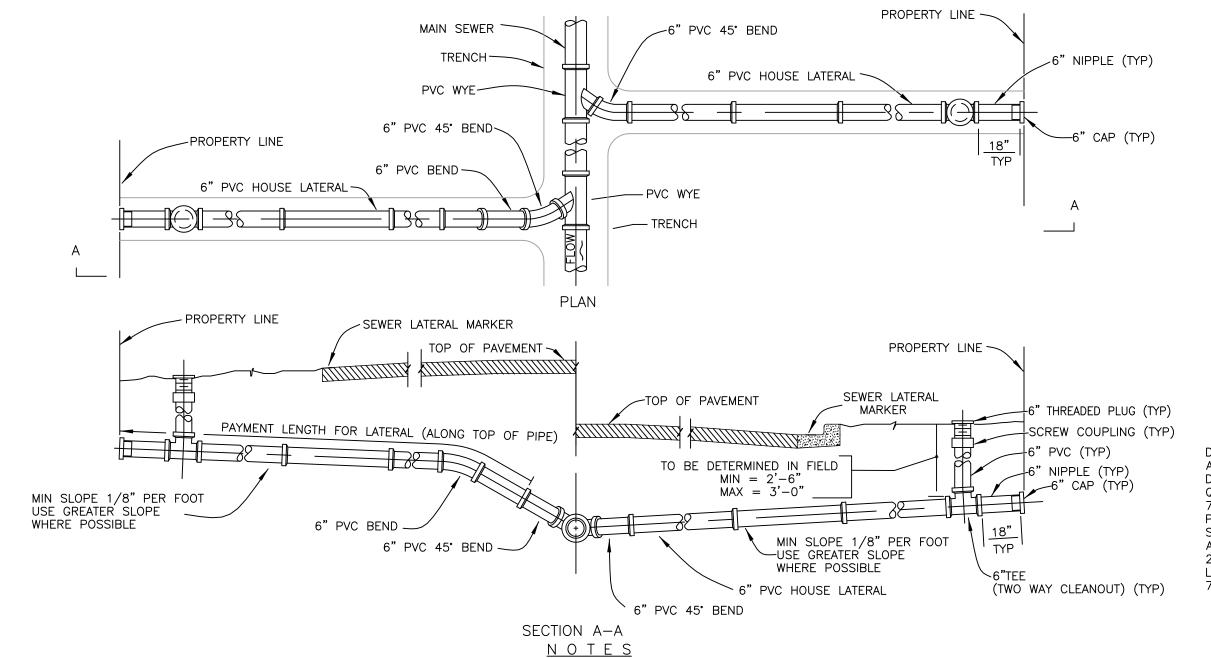
Contractor shall adjust the clean—out and cast iron ring and cover or HDPE box and cover so that the cover is seated securley and the top of the cover is flosh with the finish grade. The PVC cap of the clean-out shall be no more than 4 inches deeper than the finish grade.

2. PVC cap may be provided with recessed nut.

COMPACTED FILL

- Cast iron cover shall be provided with an embossed letter "S" for identification, HDPE cover shall be marked "SEWER" for identification.
- Cast iron ring and cover, or HDPE box and cover, as well as the four (4 sf) square feet of material (concrete or asphalt around the clean—out), are part of the clean out installation and cost shall be included within the unit price for clean-out with no additional payment.

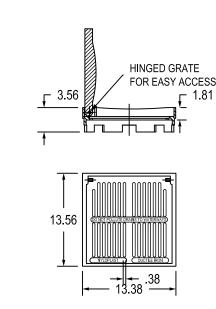
All clean—outs on this project shall be one of the four types shown on this sheet. Field conditions will determine which type.



THE LOCATIONS OF HOUSE LATERALS BY SYMBOLS ON PLANS ARE APPROXIMATE ONLY AND THE ACTUAL LOCATION AND SLOPES WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

- THE MINIMUM DIAMETER OF ALL HOUSE LATERALS SHALL BE 6".
- HOUSE LATERALS WHICH PASS UNDER DRAINAGE DITCHES WITH LESS THAN 18" OF COVER 6. OR WHICH HAVE LESS THAN 30" OF COVER UNDER PAVEMENT, SHALL BE CLASS 54 POLY-LINED DIP PER SPECIFICATIONS.
- THE DEPARTMENT'S STANDARD REGARDING VERTICAL PERPENDICULAR CONFLICTS REQUIRES THAT THERE BE A MINIMUM OF 18" CLEARANCE BETWEEN HOUSE LATERALS AND ALL CROSSING UTILITIES. IF, HOWEVER, CONDITIONS DICTATE THAT IT IS IMPOSSIBLE TO MEET THIS STANDARD, THE FOLLOWING NOTES ARE INTENTED TO ADDRESS THE MOST COMMON CONFLICT CONDITIONS.
- THE MINIMUM CLEARANCE BETWEEN HOUSE LATERALS AND WATER LINES SHALL BE 6" UNDER ALL CIRCUMSTANCES. IF THE HOUSE LATERAL IS BELOW A WATER LINE AND HAS BETWEEN 6" AND 18" OF CLEARANCE OR IF THE LATERAL IS ABOVE THE WATER LINE REGARDLESS OF CLEARANCE, THEN A NOMINAL 20' LENGTH OF GREEN AWWA CLASS 150 C900 PVC PIPE SHALL BE CENTERED OVER/UNDER THE WATER LINE.
 - IF THE HOUSE LATERAL MUST PASS OVER ANY UTILITY OTHER THAN A WATER LINE WITH LESS THAN 18" CLEARANCE, THE LATERAL SHALL REMAIN SDR 35 PVC PIPE.
 - IF THE HOUSE LATERAL MUST PASS UNDER ANY UTILITY OTHER THAN A WATER LINE WITH LESS THAN 18" CLEARANCE, THE LATERAL SHALL REMAIN SDR 35 PVC PIPE UNLESS THE UTILITY POSES A STRUCTURAL LOAD TOO GREAT FOR THE PVC LATERAL IF THE UTILITY POSES SUCH A STRUCTURAL LOAD AS DETERMINED BY THE ENGINEER, EACH CONFLICT WILL BE REVIEWED ON A CASE BY CASE BASIS.
 - TRANSITIONS FROM SDR 35 PVC TO EITHER C900 OR DUCTILE IRON PIPES SHALL BE MADE WITH PVC RIGID ADAPTORS. TRANSITIONS FROM SDR 35 PVC TO EITHER EXISTING CLAY OR CONCRETE PIPES SHALL BE MADE WITH FERNCO FLEXIBLE ADAPTORS OR EQUAL.

TYPICAL SANITARY SEWER LATERAL DETAIL

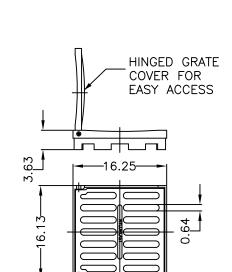


APPROX. DRAIN AREA = 50.60 SQ IN APPROX. WEIGHT WITH FRAME = 35.04 LBS

DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY DIMENSIONS ARE IN INCHES, GRATE MEETS H-10 LOAD RATING QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05

PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36. LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-034

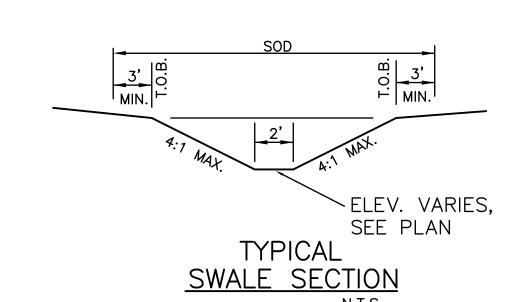
12" PEDESTRIAN GRATE DETAIL



APPROX. DRAIN AREA = 92.70 SQ. IN. APPROX. WEIGHT WITH FRAME = 59.62 LBS.

STANDARD GRATE HAS H-25 HEAVY DUTY RATING QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 & A48-CLASS 30B MATERIAL: DUCTILE IRON GRATE W/CAST IRON FRAME PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

15" STANDARD GRATE DETAIL

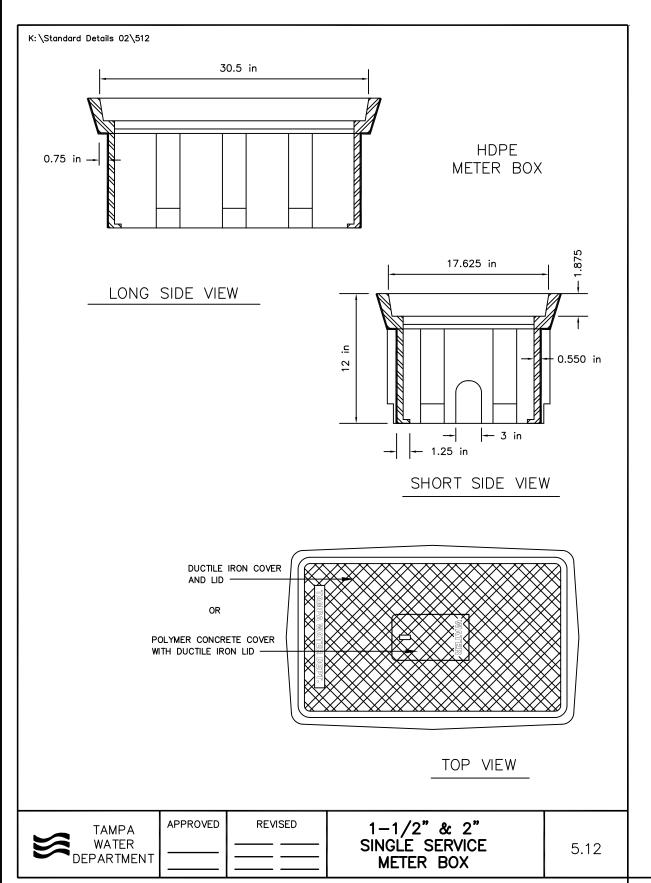


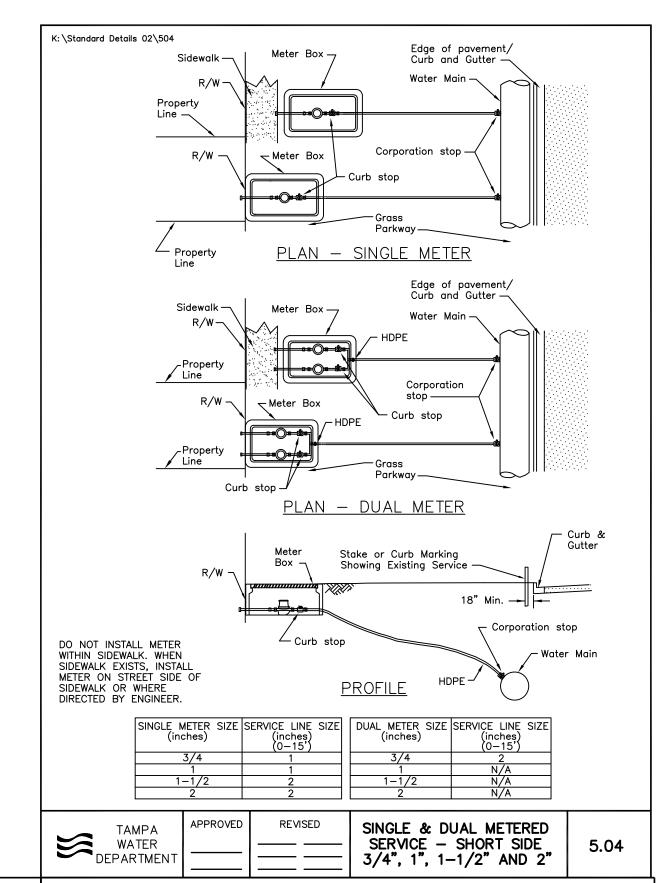
roject Number: 215612562 SCALE: NA KMJ 17.08.15 HS Drawing No. C-6

ORIGINAL SHEET - ANSI D

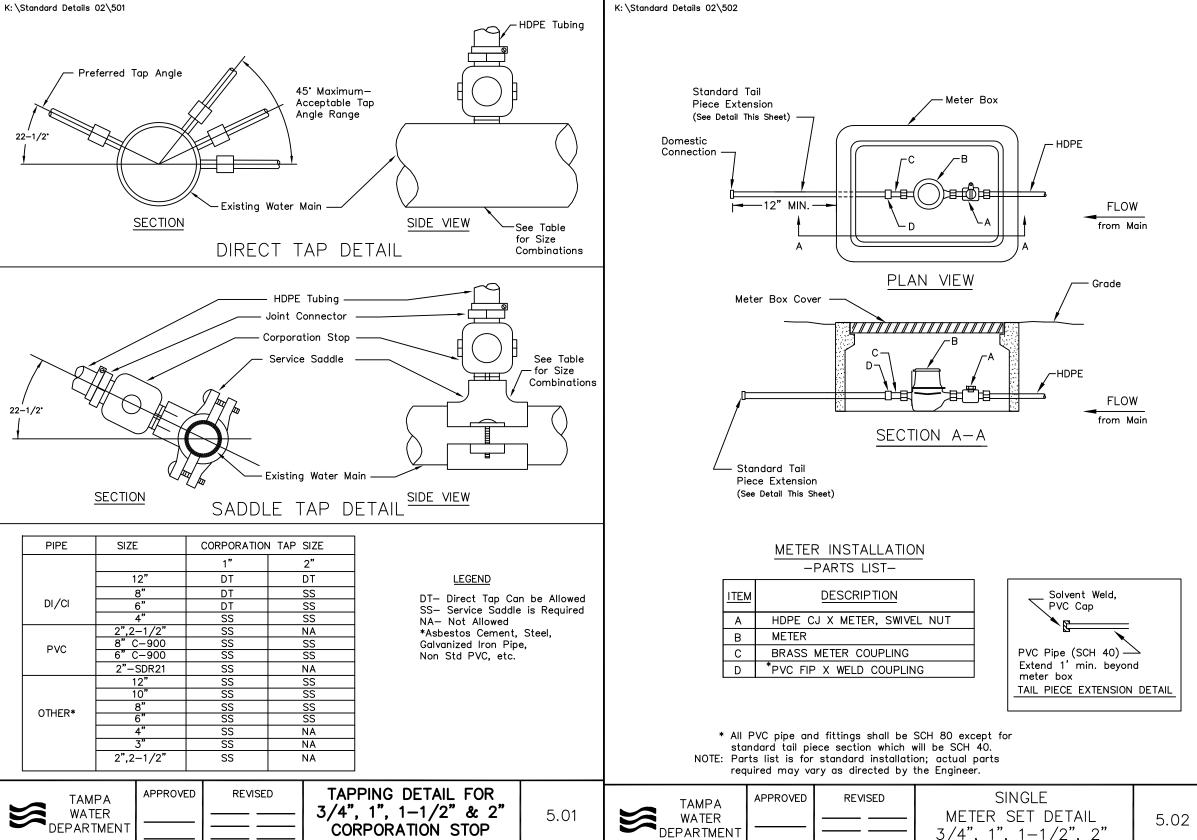
Permit-Seal

Sheet Revision





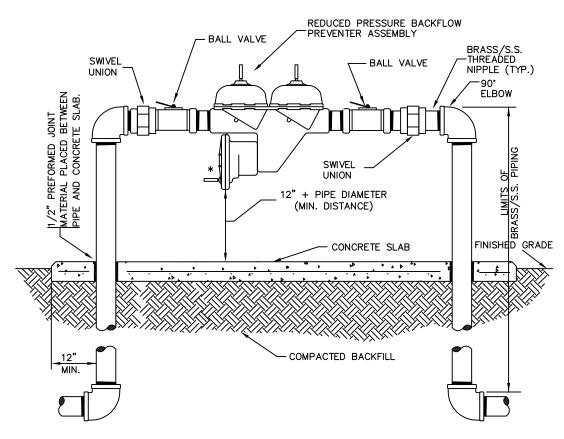
3/4", 1", 1-1/2", 2"



CORPORATION STOP

FLORIDA BUILDING CODE (FBC) UTILITY NOTES (ON-SITE OR PRIVATE WATER MAINS)

- 1. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
- 2. WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 12 INCHES VERTICAL DISTANCE, A MINIMUM CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING AND THE WATER MAIN SHALL BE ENCLOSED WITH A STEEL CASING CENTERED ON THE CROSSING TO 5 FEET ON BOTH SIDES OF THE CROSSING. WHERE WATER MAIN CROSSES BELOW SEWER MAIN, ENCASEMENT OF BOTH MAINS IS MANDATORY.
- 3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING PIPES CENTERED ON THE CROSSING. JOINT SPACING SHALL BE MINIMUM 5 FEET. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS
- 4. A MINIMUM OF 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS.
- 5. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 6 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 12 INCHES ABOVE THE TOP OF THE SEWER.
- 6. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- 7. ALL ON SITE PVC WATER MAINS 4 INCHES THROUGH 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C- 900 STANDARDS. ALL ON SITE PVC WATER MAINS 2" TO 3" SHALL BE CLASS 1120 OR 1220 (SDR 21) AND MEET REQUIREMENTS OF ASTM D- 2241. WATER MAINS SMALLER THAN 2" SHALL BE CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D1785.
- 8. PE PIPE 2" OR SMALLER SHALL MEET THE REQUIREMENTS OF ASTM D- 1248.
- 9. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.51, MINIMUM CLASS 50. IN AREAS WHERE THE SOIL IS DETERMINED TO BE CORROSIVE OR HIGH GROUND WATER IS
- 10.FIRE HYDRANTS SHALL HAVE CLEARANCES OF 7 FEET—6 INCHES IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, WITH A 4 FEET CLEARANCE TO THE REAR OF THE HYDRANT, INCLUDING, BUT NOT LIMITED TO TREES, SHRUBS, PARKING, FIRE DEPARTMENT CONNECTIONS, POST-INDICATOR VALVES, TRANSFORMERS AND LIGHT POLES, WHETHER OR NOT SHOWN HEREON. NOTIFY THE ENGINEER OF RECORD (EOR) IF THERE IS A CONFLICT.



- 1. CERTIFICATION OF PROPER INSTALLATION AND OPERATION WILL BE REQUIRED FROM A CERTIFIED BACKFLOW PREVENTION TECHNICIAN PRIOR TO WATER MAIN ACCEPTANCE.
- 2. THE BACKFLOW PREVENTION DEVICE ASSEMBLY SHALL BE ON THE APPROVED LIST OF THE UNIVERSITY OF SOUTHERN CALIFORNIA AND SHALL MEET CITY OF TAMPA STANDARDS.
- 3. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE PROPER OPERATION, MAINTENANCE AND TESTING OF THE BACKFLOW PREVENTION DEVICE ASSEMBLY.
- 4. 6" CONCRETE SLAB SHALL BE REINFORCED WITH No.6x6-W10xW10 AND SHALL BE TYPE I, PORTLAND CEMENT WITH A MINIMUM 28-DAY STRENGTH OF 3000 psi.
- 5. SLAB WIDTH AND LENGTH SHALL VARY WITH ASSEMBLY SIZE AND AND SHALL MEET CITY OF TAMPA STANDARDS & MANUFACTURERS RECOMMENDATIONS.
- 6. ALL ABOVE GROUND COMPONENTS SHALL BE PAINTED BLUE.

1"-2" (RPZ) BACKFLOW PREVENTOR DETAIL

DET, Permit-Seal

Drawing No. C-8 Revision

KMJ 17.08.15

Project Number: 215612562

HS

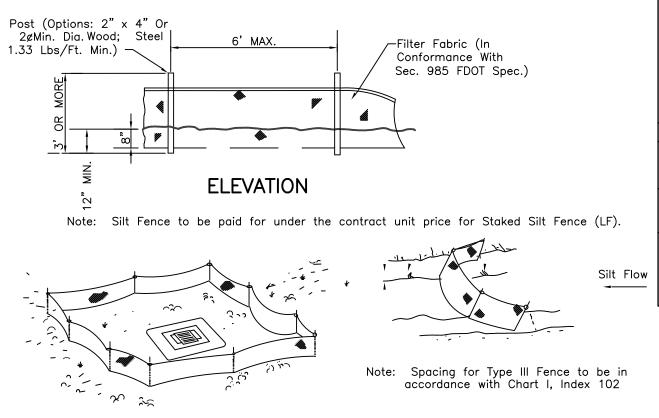
SCALE: NA

EROSION CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR SITE CONDITIONS FROM THE DATE OF NOTICE TO PROCEED, UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, ENGINEER OF RECORD (EOR) AND THE LOCAL REGULATORY AGENCIES. ACCORDINGLY, THE CONTRACTOR IS SOLELY RESPONSIBLE AND SHALL MANAGE HIS WORK AND TAKE ALL NECESSARY STEPS TO CONTROL FUGITIVE DUST. CONTROL AND PREVENT EROSION, AND TRANSPORT OF SEDIMENT INTO EXISTING WETLANDS, DRAINAGE WAYS, CONSERVATION AREAS, NATURAL AREAS AND OFFSITE AREAS, AS WELL AS NEWLY CONSTRUCTED ROADWAYS, STORMWATER FACILITIES AND MITIGATION AREAS. THIS MAY REQUIRE ADDITIONAL MEASURES FROM THOSE SHOWN ON THE CONSTRUCTION PLANS, SUCH AS WINDROWS, DIVERSION SWALES, SEED & MULCH, STAKED HAY BALES, OR OTHER EROSION CONTROL MEASURES NECESSARY TO REACT TO VARYING SITE CONDITIONS OR INCLEMENT WEATHER. IF EROSION OCCURS, THE CONTRACTOR SHALL IMMEDIATELY REMEDY THE DAMAGE CAUSED BY SUCH EROSION BY CONTROLLED REMOVAL OF SEDIMENTS, REPLANTING IF NECESSARY AND RE-ESTABLISHMENT OF EROSION PROTECTION DEVICES, AT THE CONTRACTOR'S SOLE EXPENSE.
- 2. THE CONTRACTOR SHALL INSTALL WATER QUALITY AND EROSION CONTROL DEVICES ALONG THE PROJECT PERIMETER, AS DESIGNATED ON THESE PLANS. THE CONTRACTOR SHALL RECEIVE THE ENGINEER'S APPROVAL OF THE INSTALLATION PRIOR TO ANY OTHER SITE
- 3. DAILY INSPECTION OF THE EROSION CONTROL WILL BE REQUIRED BY THE CONTRACTOR. ANY DISTURBANCE OF THESE DEVICES
- 4. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES, TURBIDITY BARRIERS OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE EOR AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE EOR AND/OR AUTHORITIES.
- 5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
- . THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS AND UNTIL THE DISTURBED AREAS ARE COMPLETELY STABILIZED AND/OR VEGETATED. ALL SURFACES DISTURBED FOR 30 OR MORE DAYS SHALL BE VEGETATED WITH A
- 7. TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (IE HAY BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.

TEMPORARY OR PERMANENT COVER. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.

- 8. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL. IN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION, HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED. SILT FENCES, HAY BALES, AND/OR TURBIDITY BARRIERS SHALL BE
- 9. THE CONTRACTOR MUST SELECT, IMPLEMENT, AND OPERATE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF WATER QUALITY STANDARD AS SPECIFIED IN CHAPTERS 17-301, 17-302,
- 10.THE CONTRACTOR IS ENCOURAGED TO USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DER, 1988).
- 11.EROSION CONTROL DEVICES AND MEASURES DESCRIBED IN THESE GENERAL NOTES ARE GRAPHICALLY SHOWN ON THE PLANS. REFER TO THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL (LATEST EDITION), THE BEST MANAGEMENT PRACTICES (BMP) PLAN INCLUDED HEREIN, THE CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) INCLUDED HEREIN, AND/OR THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL DETAILS, INSTRUCTIONS AND SCHEDULING AS APPLICABLE.
- 12.THE CONTRACTOR WILL BE REQUIRED TO ADHERE TO THE SPECIFIC EROSION CONTROL MEASURES DESCRIBED ABOVE AND SHOWN ON THE PLANS ALONG WITH A SPECIFIC CONSTRUCTION SCHEDULE FOR IMPLEMENTATION. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS.
- 13.THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE NEEDED AND DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION.
- 14.SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.



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 APPLICATIONS

NATIONAL POLLUTANT DISCHAGE ELIMINATION SYSTEM (NPDES)

Type III Silt Fence Protection Around Ditch Bottom Inlets.

THE CONTRACTOR ACKNOWLEDGES THE REQUIREMENT OF THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), WHICH HAS PUBLISHED RULES FOR OBTAINING COVERAGE UNDER THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION

IN OCTOBER 2000, EPA AUTHORIZED THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) TO IMPLEMENT THE NPDES STORMWATER PERMITTING PROGRAM IN THE STATE OF FLORIDA (IN ALL AREAS EXCEPT INDIÁN COUNTRY LANDS). DEP'S AUTHORITY TO ADMINISTER THE NPDES PROGRAM IS SET FORTH IN SECTION 403.0885, FLORIDA STATUTES (F.S.). THE NPDES STORMWATER PROGRAM REGULATES POINT SOURCE DISCHARGES OF STORMWATER INTO SURFACE WATER'S OF TH STATE OF FLORIDA FROM CERTAIN MUNICIPAL, INDUSTRIAL AND CONSTRUCTION ACTIVITIES. AS THE NPDES STORMWATER PERMITTING AUTHORITY, DEP IS RESPONSIBLE FOR PROMULGATING RULES AND ISSUING PERMITS, MANAGING AND REVIEWING PERMIT APPLICATIONS, AND PERFORMING COMPLIANCE AND ENFORCEMENT ACTIVITIES.

THE CONTRACTOR AGREES TO ASSIST THE OWNER IN THE PREPARATION, AND IMPLEMENTATION, OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE EPA HAS PUBLISHED SUMMARY GUIDANCE FOR: "DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" (EPA 832-R-92-005, SEPTEMBER 1992).

DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:										
DESCRIBE THE SEQUENCE OF MAJOR EVENTS:	1. CONSTRUCT SILT FENCE (SEE GRADING & DRAINAGE PLANS) 2. BEGIN SITE DEMOLITION AND CLEARING AS NEEDED. 3. CONSTRUCT SEDIMENT TRAPS FOR SITE RUNOFF, IF NEEDED. 4. CONSTRUCT/INSTALL STORM SEWER INFRASTRUCTURE. 4. BEGIN MASS GRADING. 5. CONSTRUCT/INSTALL WATER & SEWER INFRASTRUCTURE. 6. COMPLETE FINAL GRADING AND PAVING. 7. CONSTRUCT LANDSCAPING, AND FINAL STABILIZATION (GRASS SOD, SEED & MULCH, ETC)									
TOTAL AREA OF THE SITE:	0.92 ACRES TOTAL AREA OF SITE TO BE DISTURBED: 0.92 ACRE									
EXISTING DATA DESCRIBING SOIL AND STORMWATER DISCHARGE QUALITY:	SEE GEOTECHNICAL REPORT(S) BY OTHERS.									
ESTIMATE DRAINAGE AREA FOR EACH DISCHARGE POINT: (INCLUDING OFF-SITE)	DP EXIST. CURB INLET = 3.0 ACRES	IT D 1.								
LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND IDENTITY OF EACH RECEIVING WATER OR MS4: DP EXIST. POND, LAT: 27*57'05.23"N / LONG: 82*26'51.19"W NAME: CITY OF TAMPA / TAMPA BAY										

DESCRIPTION OF CONTROLS BMPS, AND MEASURES TO BE IMPLEMENTED FOR EACH SOIL

DURING THE CONSTRUCTION PHASES, APPROPRIATE PRACTICES INCLUDING, BUT NOT LIMITED TO SILT FENCE BARRIERS, HAY BALES AND WATERING OR OTHER METHODS NECESSARY WILL BE IMPLEMENTED TO CONTROL SOIL RUNOFF AND FUGITIVE DUST. DETENTION AREAS SERVING AS SEDIMENT BASINS OR SEPARATE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION OR A MINIMUM OF 2-FEET BELOW EXISTING GROUND TO ALLOW SILT TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.

TEMPORARY STABILIZATION PRACTICES:

TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE BAHIA.

PERMANENT STABILIZATION PRACTICES:

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 14 DAYS AFTER LAST CONSTRUCTION ACTIVITY.

NON-STRUCTURAL CONTROLS IMPLEMENTED TO LIMIT FUGITIVE DUST:

AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS. FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS (OR AS NEEDED) TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINÙOUSLY AND AÓDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF SITE TRANSPORT OF UNACCEPTABLE LEVELS OF

STRUCTURAL CONTROLS IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS, STORE FLOWS, RETAIN SEDIMENT AND LIMIT STORMWATER RUNOFFS

SILT FENCE, HAY BALES, FLOATING TURBIDITY BARRIERS.

SEDIMENT BASINS IMPLEMENTED FOR DISTURBANCE AREAS GREATER THAN 10 ACRES:

TEMPORARY SEDIMENT BASINS CONSTRUCTED AS NECESSARY.

PERMANENT STORMWATER MANAGEMENT CONTROL SYSTEMS TO BE INSTALLED DURING CONSTRUCTION PROCESS (SUCH AS DETENTION/RETENTION SYSTEMS AND VEGETATED SWALES):

SOD OPEN SPACE AREAS. STORMWATER PIPES AND STRUCTURES TO BE INSTALLED.

DESCRIPTION OF MAINTENANCE PLAN FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS:

CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY SEDIMENT AND EROSION CONTROL FEATURES IN ACCORDANCE WITH THE NPDES PERMIT OR AS FOLLOWS, WHICHEVER IS

- SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER. MAINTENANCE SHALL BE PERFORMED ON THE ROCK ENTRANCE WHEN ANY VOID SPACES ARE FULL OF
- HAY BALES SHALL BE USED IN AREAS WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. INSPECTION OF THE HAY BALES SHALL TAKE PLACE IMMEDIATELY AFTER EACH RAINFALL
- AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS TO THE HAY BALES, SILT FENCE, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY.

BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RESEEDED PER

MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY.

MANUFACTURES' INSTRUCTIONS. MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY.

DESCRIPTION OF INSPECTION PROCEEDURES AND INSPECTION DOCUMENTATION PROCEDURES (MUST OCCUR WEEKLY AND WITHIN 24 HOURS OF STORM EVENT OF OVER 0.5":

- ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5-INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE.
- ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE
- HEIGHT OF THE SILT FENCE. SILT FENCE SHALL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT AND TEARS TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS AND TO SEE THAT THE FENCE POSTS ARE
- FIRMLY IN THE GROUND. 5. THE SEDIMENT BASINS SHALL BE INSPECTED DEPTH OF SEDIMENT AND BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN IT REACHES 10% OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. 6. TEMPORARY AND PERMANENT GRASSING AND MULCHING AND SODDING SHALL BE INSPECTED FOR
- BARE SPOTS. WASHOUTS AND HEALTHY GROWTH.
- 7. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE.
- 8. EITHER THE SITE SUPERINTENDENT OR HIS DESIGNEES SHALL BE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE, REPAIR ACTIVITIES AND COMPLETING THE INSPECTION AND MAINTENANCE REPORT. 9. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON

IDENTIFICATION AND DESCRIPTION OF ALL SOURCES OF NON-STORMWATER DISCHARGES:

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING.

2. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

3. UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES SHALL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

NOTICE OF TERMINATION:

SITE IN GOOD WORKING ORDER.

A NOTICE OF TERMINATION SHALL BE SUBMITTED TO THE FDEP AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

WASTE DISPOSAL, THIS MAY INCLUDE CONSTRUCTION DEBRIS, CHEMICALS, LITTER, AND SANITARY WASTES:	ALL CONSTRUCTION MATERIALS AND DEBRIS WILL BE PLACED IN A DUMPSTER AND HAULED OFF SITE TO A LANDFILL OR OTHER PROPER DISPOSAL SITE. NO MATERIALS WILL BE BURIED ON SITE.
OFFSITE VEHICLE TRACKING FROM CONSTRUCTION ENTRANCES/EXITS:	OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION WILL BE MINIMIZED VIA A ROCK CONSTRUCTION ENTRANCE PER FDOT INDEX #106, DAILY STREET SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN.
THE PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES USED AT THE CONSTRUCTION SITE:	FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH THE MANUFACTURER'S SUGGESTED APPLICATION RATES.
THE STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:	AT A MINIMUM A DOUBLE WALLED FUEL TANK WILL BE PLACED ON A DRIP PAN TO CONTAIN AND PREVENT ANY DRIPS OR LEAKS FROM BEING DISCHARGED IN STORMWATER RUNOFF. ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED.
OTHER:	PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLET(S), SURFACE WATERS AND WETLANDS. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF. A SMALL-VEGETATED BERM SHALL BE PLACED AROUND THE WASHDOWN AREA, SIMILAR TO FDOT INDEX #106.

CONSTRUCTION SURF MANAGEMENT PLAN

Permit-Seal

Project Number: 215612562 SCALE: 1"=20" KMJ 17.08.15 HS

Drawing No. C-9 Revision Sheet

POWER RISER DIAGRAM ON SHEET E2.O.

(3) ELECTRIC SERVICE, SEE RISER ON SHEET E2.0.

(4) SITE LIGHTING FIXTURE AND POLE. SEE DETAIL ON THIS SHEET. VERIFY REQUIRED TERMINATION AT BASE OF POLE AND PROVIDE ACCORDINGLY.

(5) FIXTURE OPTICS ORIENTATION. COORDINATE WITH THE FIXTURE MANUFACTURER FOR PROPER ORIENTATION PRIOR TO FINAL INSTALLATION.

(6) SHADE STRUCTURE. PROVIDE THE FOLLOWING:

I. (4) OUTLETS. WEATHER RESISTANCE GFI WITH "WET WHILE IN USE" LOCKABLE METAL COVER. MOUNTED AT 18" A.F.G. (CKT# HP-2.)

2. (2) LIGHT FIXTURES TYPE 'A'. (SEE FIXTURE SCHEDULE SHEET EI.I). CKT# HP-4. PROVIDE A WEATHERPROOF SWITCH FOR CONTROLS.

NOTE: VERIFY EXACT LOCATION OF OUTLETS AND LIGHTS IN SHADE STRUCTURE WITH VENDOR PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.

3. PROVIDE I" CONDUIT WITH 4-#8, I-#8 E.G. 2-#8 = OUTLETS 2-#8 = LIGHTS

LUMINAIRE

ALL CONCRETE

CONTRACTOR

WORK AND REINFORCING SHALL BE BY

GENERAL

GALVANIZED CONDUIT "ELL"

WITH GROUNDING BUSHING

AS SHOWN ON ELECTRICAL

CARLON CONDUIT CONNECTOR.-

TAMPA PRIOR TO RELEASE. TYPE | LANDSCAPE FORMS INC. No.

A6500L5-056F-40K-UVI-I4-TWI

GALVANIZED STEEL TO

SITE PLAN. ----

4. ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.

MOUNTING DETAIL FOR 'SA & SB'

POLE/BASE SHALL HAVE GASKETED

HAND HOLE WITH COVER.

ELECTRICAL CONTRACTOR TO

POLE SHALL BE RATED FOR 141

2017 6th EDITION. CALCULATION

VALUE FOR LUMINAIRES SHOWN.

- ACCESS HOLE WITH COVER AND GROUND

MPH WIND VELOCITY PER FBC

COORDINATE TENON TYPE

LUG BEHIND COVER.

5/8" x 10'-0" COPPER CLAD

U.L. LISTED MECHANICAL CONNECTION (BOTH ENDS).

GROUND ROD WITH DIRECT BURIAL

OPTICS

TYPE 5

→ AS RECOMMENDED BY POLE

MANUFACTURER TO MEET

REQUIRED WIND LOADING.

NOT TO SCALE

WATTS VOLTAGE

240

57

(SEE "LIGHT POLE SHOP

DRAWINGS" BELOW).

(1) RUN LIGHTING CIRCUITS VIA LIGHTING CONTACTOR, SEE PANEL SCHEDULE.

NOTES

(8) SHADE STRUCTURE. PROVIDE THE FOLLOWING:

I. (2) OUTLETS. WEATHER RESISTANCE GFI WITH "WET WHILE IN USE" LOCKABLE METAL COVER MOUNTED AT 18" A.F.G. (CKT# HP-6.)

2. (2) LIGHT FIXTURES TYPE 'A'. (SEE FIXTURE SCHEDULE SHEET EI.I). CKT# HP-8. PROVIDE A WEATHERPROOF SWITCH FOR CONTROLS.

NOTE: VERIFY EXACT LOCATION OF OUTLETS AND LIGHTS IN SHADE STRUCTURE WITH VENDOR PRIOR TO ROUGH-IN AND COMPLY ACCORDINGLY.

3. PROVIDE 3/4" CONDUIT WITH 4-#10, I-#10 E.G. 2-#IO = OUTLETS 2-#10 = LIGHTS

4. ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.

(9) SHADE STRUCTURE. PROVIDE THE FOLLOWING:

I. (2) OUTLETS. WEATHER RESISTANCE OF WITH "WET WHILE IN USE" LOCKABLE METAL COVER MOUNTED AT 18" A.F.G. (CKT# HP-10.)

2. PROVIDE I" CONDUIT WITH 2-#10, 2-#IO = OUTLETS

3. ALL CONDUITS AND CONNECTORS FOR ELECTRICAL ELEMENTS ON SHADE STRUCTURES SHALL BE PAINTED TO MATCH COLUMNS OR UNDERSIDE OF ROOF AS NEEDED.

LIGHT POLE SHOP

DRAWINGS

INCLUDED WITH THE POLE SHOP

DRAWING SUBMITTAL SHALL BE A

SIGNED AND SEALED DRAWING OF

THE SITE LIGHTING POLE BASE

DESIGN SHOWING BASE DEPTH.

CALCULATION SHALL BE

PERFORMED BY A REGISTERED

PROFESSIONAL ENGINEER WITH AN

ACTIVE LICENSE IN THE STATE OF FLORIDA. CALCULATION SHALL BE BASED ON SOIL INFORMATION AT

ACTUAL SITE.

(ALL COST ASSOCIATED WITH THIS

DESIGN SHALL BE THE RESPONSIBILITY OF THE

CONTRACTOR).

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED (10) EXISTING TECO UTILITY SWITCH GEAR TO REMAIN. REVIEW POWER AND LIGHTING PLANS AND DETAILS FOR ANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL ITEMS WHICH APPLY TO THIS PROJECT. NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION. (II) INTERNALLY LIT SIGN. SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CIRCUITRY CONCEALED IN WALL OR ABOVE CEILING WITH (2) PROVIDE A WEATHERPROOF J-BOX WITH 20AMP CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N. CONTROLLED, MOUNT 48" A.F.F. U.O.N. MAINTENANCE SWITCH. RUN CIRCUIT VIA CONTACTOR 'CI'. DOUBLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N. CIRCUITRY CONCEALED BELOW FLOOR SLAB OR _____ (13) EXISTING CITY CONTROLLER TO BE USED TO CONTROL FINISHED GRADE WITH CONDUCTORS AS SHOWN ON 53 THREE-WAY SWITCH, MOUNT 48" A.F.F. U.O.N. PANEL SCHEDULE U.O.N. PARK'S LIGHTING, SHELTER LIGHTING AND RECEPTACLES AND PARK LIT SIGN. CIRCUITRY EXPOSED ON WALL OR CEILING WITH SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" A.F.F. ____ CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N. (14) 2-#8, I-#8 E.G. IN I" CONDUIT THROUGHOUT THE CIRCUIT. DISCONNECT SWITCH DUPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N. DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES QUADRAPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N. NON-FUSED; "DE" INDICATES DUAL ELEMENT FUSES. € 30A I PH, 250V. RECEPTACLE, AMPS AS NOTED, MOUNT I&" A.F.F. CONTACTOR (AS NOTED) TIME CLOCK SPECIAL RECEPTACLE AS NOTED PHOTOCELL GROUND FAULT INTERRUPTER RECEPTACLE, LEVITON #8899, MOUNT ABOVE COUNTER HEIGHT U.O.N. PUSHBUTTON, MOUNT 48" A.F.F. U.O.N. WEATHERPROOF DUPLEX RECEPTACLE, WEATHER RESISTANT JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N.) AND GFI RATED, LEVITON #WT899-TRW. MOUNT AT 18" A.F.F. DEVICE AS NOTED LIGHTING OR POWER PANELBOARD NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN, U.O.N. **ABBREVIATIONS** SBK

EQUIPMENT GROUND

WEATHERPROOF

'SA' ka

STRUCTURE

N.I.C. NOT IN CONTRACT A.F.G. ABOVE FINISH GRADE A.F.F. ABOYE FINISH FLOOR LIGHTING FIXTURE SCHEDULE VOLT LAMPS LOAD TYPE MANUF. MOUNTING CATALOG NO. LANDSCAPE AG500L5-056F-40K-UVI-14-TWI 208 LED | 57 (SEE NOTE #3 BELOW) FORMS INC. SEE POLE DETAIL 'SBKK THIS SHEET 208 FORMS INC. (SEE NOTE #3 BELOW) (TYP.) <u>GENERAL NOTES:</u>

PROVIDE NECESSARY MOUNTING HARDWARE 3. AND ACCESSORIES FOR ALL FIXTURES. EQUALS ONLY WILL BE ACCEPTED

PROPERTY LINE

U.O.N. UNLESS OTHERWISE NOTED

N.T.S. NOT TO SCALE

LEGEND

FIXTURE AND POLE FINISH COLOR AS SELECTED BY OWNER/CIVIL.

C.T. CURRENT TRANSFORMER

EX. EXISTING DEVICE

_∞'らA'≪ SHADE STRUCTURE (TYP.)

'SB' 🞸

'SA'\$

HP-I3

SB | AG500L3-046F-40K-UVI-14-TWI TYPE 3 48 240 FINISH COLOR SHALL BE SELECTED BY OWNER/CIVIL ENGINEER FIXTURE SCHEDULE MOUNTING WATTS TYPE | MANUFACTURER CATALOG NO DESCRIPTION VOLT LAMPS MAX CONFINEMENT SM23-50W-0-CC-4000K-LUMINAIRE SURFACE MOUNTED | 120 | SURFACE 55 120-277-BI-CBA-FLH 5064 LUMENS

LUMINAIRE

- #6 GROUND

WIRE SIZE UP THE POLE SHALL BE SAME SIZE FEEDING THE POLE.

2. POLE AND FIXTURES SHALL BE SUBMITTED AND APPROVED BY THE CITY OF

-CARLON PVC CONDUIT

CBA = COLOR AS SELECTED BY ARCHITECT.

PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FIXTURES. ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE

2. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.

ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING

WHERE USED. ALL LINEAR TYPE FLUORESCENT

FOR BALLAST DISCONNECT.

LUMINAIRES SHALL COMPLY WITH N.E.C. 410.130(6)

5. SHOP DRAWINGS SHALL INCLUDE:

A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.

BALLAST CUT SHEETS. LAMP OUT SHEETS.

6. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED, VERIF WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.

UTILITY CONTACTS

POWER COMPANY

COMPANY TECO NAME: ONE SOURCE PHONE: (813) 635-1500

CONTRACTOR SHALL NOTIFY UTILITY COMPANY REPRESENTATIVE LISTED ABOVE OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

SHEET LEGEND:

PROPERTY LINE

EI.O ELECTRICAL SITE PLAN EI.I PHOTOMETRIC SITE PLAN E2.0 RISER DIAGRAM AND PANEL SCHEDULES

E3.0 ELECTRICAL SPECIFICATIONS

CONSULTING PROFESSIONAL ENGINEERS

PANEL

'HP' ---

CHEHAYEB & ASSOCIATES, INC. 3702 AZEELE ST. (813) 876-1415 TAMPA, FL 33609 (fax) 876-0913

SCALE: I" = 20'-0"

SOUHEIL CHEHAYEB CERT. #7340

Project Number: 215612562 SCALE: AS NOTED SS SS 18.10.08 Chkd. Dsgn. Drawing No. E1.0

1 of 4

Permit-Seal

Revision

FGP Area Type 5

lighting facts

FIXTURE TYPE 'SA' & 'SB'



FGP has a pleasing flower-like organic form created by three stems that rise from the connection with the pole. The soft, triangular head holds LEDs in triangular arrays that cast illumination between the verticals in a clean footprint. The area light is ideal for pedestrain spaces such as campuses, parks and plazas, helping to create public spaces that are usable 24 hours a day. LED light sources are energy efficient. Light is finished using Landscape Forms' proprietary Pangard II powdercoat finish.

LED Technology

The area light employs solid state LED technology that provides exceptional energy efficiency and very long life. Designed to maximize this potential by managing the thermal properties of LEDs, the FGP area light's cast aluminum heatsink and housing efficiently dissipate heat. FGP uses full spectrum LED light engines that provide outstanding color rendering ability. The thermoformed integrated diffuser lens reduces glare, improving the visual experience.

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 integrated dimmable driver. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability. FGP Pedestrian ships prewired.

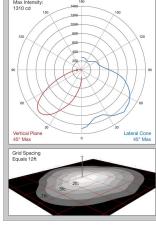
EPA: 1.49ft²

FGP Area Type 3

Type 3 Distribution Fixture: Cast Aluminum Lamp: 30 Cree XP-G2 LEDs CCT: 3000K, 3500K, 4000K Drive Current: 460mA Optic: LEDiL® STRATA Lens: Impact Modified Acrylite® Power Supply: 100V-277V LED Driver: TRP LED 50W Dimmable: 0-10V BUG Rating: B1 U2 G1 IP Rating: IP66

FGP Area Type 5 Type 5 Distribution

Fixture: Cast Aluminum Lamp: 30 Cree XP-G2 LEDs CCT: 3000K, 3500K, 4000K Drive Current: 560mA Optic: LEDiL® STRATA Lens: Impact Modified Acrylite® Power Supply: 100V-277V LED Driver: TRP PLED 60W Dimmable: 0-10V BUG Rating: B2 U2 G1 IP Rating: IP66



Registration Number: 1YY7-F1DMMZ (7/14/2015) Model Number: FGP Pedestrian Type 3 Type: Luminaire - Area/Roadway

FGP Area Type 3

lighting facts

Registration Number: 1YY7-O3EEZZ (7/14/2015) Model Number: FGP Pedestrian Type: Luminaire - Area/Roadway

page 1 of 2

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FGP AREA LIGHT Product Data Sheet







landscapeform

Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture and outdoor lighting. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order

Specify: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Height, optional 7-pin (ANSI 136.41) Twist Lock receptacle, and Powdercoat Color Product Lamp Drive Current Color Temp, Input Voltage Height Twist Lock

Troduct	Lamp	Dive durient	Color remp.	input voltage	rioigitt	TWIST LOCI
AG	500L3 (30 LED Type 3) 046F (460 mA)		40K (4000K) 35K (3500K)	UV1	12 (144in)	NTW (No Twist Lo
FGP	500L5 (30 LED Type 5)	056F (560 mA)	30K (3000K)	(100-277VAC)	14 (168in) 16 (192in)	TW1 (Twist Lock
EXAMPLE: AG - 500L	3 – 046F – 35K / UV1 ·	– 12 – TW1 – Powderd	coat Color			

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

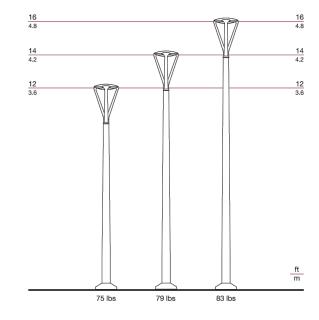
Warranty

LED lighting products are warranted for six years.

page 2 of 2 rev. 05/2018

UL Listed, RoHS Compliant, Next Generation Luminaires Winner U.S. Patent D752,268



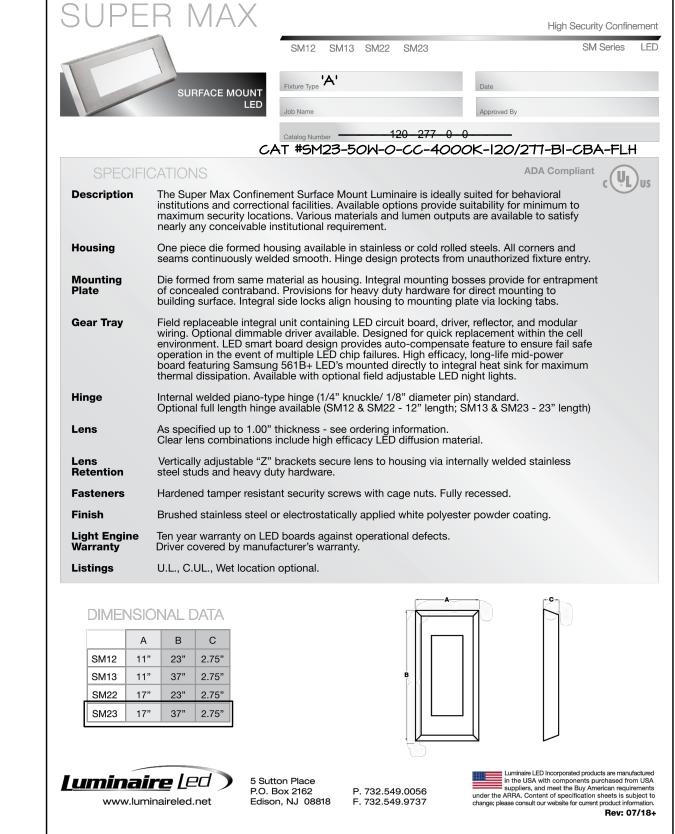


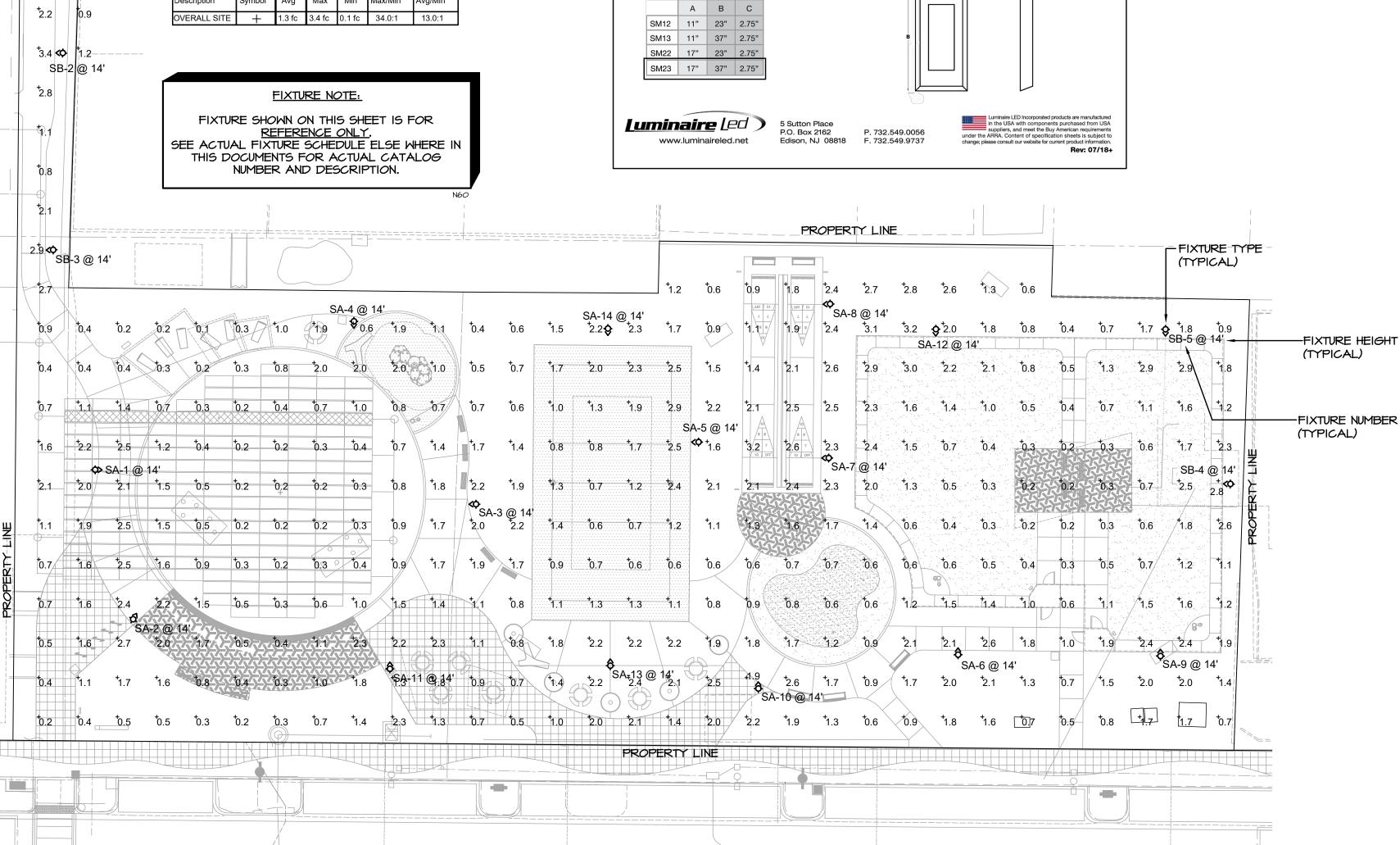
Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. ©2017 Landscape Forms, Inc. Printed in U.S.A.

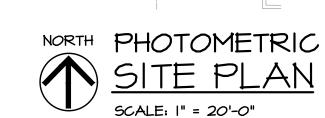
scneau	ıle										
Symbol	Label	QTY	Manuf.	Catalog Number	Description	Lamp	Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
\$	SA			AG500L5-056F-40K- UV1-14-TW1	Pedestrian style pole	30 white LEDs		LF_FGP_Pedestri anType5_40K.ies	3934	0.9	56.26
\$	SB			AG500L3-046F-40K UV1-14-TW1	Pedestrian style pole	30 white LEDs		LF_FGP_Pedestri anType3_40K.ies	2769	0.9	47.74

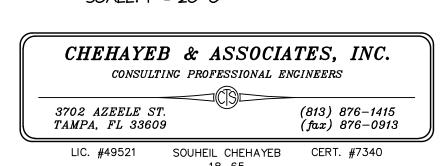
uminaire Locations

No. Label X Y Z MH Orientation Tilt X Y 1 SA 50.62 131.05 14.00 14.00 90.00 0.00 50.62 131.0 2 SA 60.09 93.07 14.00 14.00 40.03 0.00 60.09 93.07 3 SA 147.43 122.48 14.00 14.00 270.00 0.00 147.43 122.4 4 SA 116.46 168.84 14.00 14.00 180.00 0.00 116.46 168.8 5 SA 204.05 138.06 14.00 14.00 270.00 0.00 204.05 138.0 6 SA 270.17 83.65 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1 9 SA 321.47 83.96 14.00 14.00 0.00 0.00 321.47 83.96	
2 SA 60.09 93.07 14.00 14.00 40.03 0.00 60.09 93.07 3 SA 147.43 122.48 14.00 14.00 270.00 0.00 147.43 122.4 4 SA 116.46 168.84 14.00 14.00 180.00 0.00 116.46 168.8 5 SA 204.05 138.06 14.00 14.00 270.00 0.00 204.05 138.0 6 SA 270.17 83.65 14.00 14.00 0.00 0.00 270.17 83.65 7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	Z
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4 SA 116.46 168.84 14.00 14.00 180.00 0.00 116.46 168.8 5 SA 204.05 138.06 14.00 14.00 270.00 0.00 204.05 138.0 6 SA 270.17 83.65 14.00 14.00 0.00 0.00 270.17 83.65 7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	0.00
5 SA 204.05 138.06 14.00 14.00 270.00 0.00 204.05 138.0 6 SA 270.17 83.65 14.00 14.00 0.00 0.00 270.17 83.65 7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	0.00
6 SA 270.17 83.65 14.00 14.00 0.00 0.00 270.17 83.65 7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	0.00
7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	0.00
7 SA 237.18 134.16 14.00 14.00 270.00 0.00 237.18 134.1 8 SA 237.58 173.15 14.00 14.00 270.00 0.00 237.58 173.1	0.00
	0.00
9 SA 321.47 83.96 14.00 14.00 0.00 0.00 321.47 83.96	0.00
	0.00
10 SA 219.33 75.63 14.00 14.00 0.00 0.00 219.33 75.63	0.00
[†] 2.2 [†] 0.9 11 SA 125.64 80.39 14.00 14.00 0.00 0.00 125.64 80.39	0.00
12 SA 264.41 166.74 14.00 14.00 180.00 0.00 264.41 166.74	0.00
13 SA 181.46 81.39 14.00 14.00 0.00 0.00 181.46 81.39	0.00
3.4 � 1.0 14 SA 181.05 166.92 14.00 14.00 180.00 0.00 181.05 166.9	0.00
SB-1 @ 14' 1 SB 42.86 287.19 14.00 14.00 270.00 0.00 42.86 287.1	0.00
2 SB 42.57 237.07 14.00 14.00 270.00 0.00 42.57 237.0	0.00
2.8 † 2 3 SB 39.87 186.96 14.00 14.00 270.00 0.00 39.87 186.9	0.00
4 SB 339.33 127.54 14.00 14.00 270.00 0.00 339.33 127.5	0.00
5 SB 322.89 166.74 14.00 14.00 180.00 0.00 322.89 166.74	0.00
†1.1 †0.4 †0.9 †0.3 Statistics	









Permit-Seal

Project Number: 215612562 SCALE: AS NOTED SS SS 18.10.08

Drawing No. E1.1 Revision Sheet

2 of 4

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PROJECT NOTES

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL
- 2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS'
- 3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE SUB CONTRACT.
- 4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (I) YEAR FROM DATE OF ACCEPTANCE.
- 6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 8. CONTRACTOR TO PAY FOR ALL PERMITS, UTILITY FEES, INSPECTIONS AND TESTING.
- 9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
- 10. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. CONDUCTORS #12 AND SMALLER MAY
- II. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. MINIMUM CONDUIT UNDERGROUND SHALL BE 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- 12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
- 13. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION-PROOF, ETC.).
- MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON: HOWEVER, COMPARABLE DEVICES BY HUBBELL OR PASS & SEYMOUR WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE IVORY OR AS DICTATED BY ARCHITECT/OWNER.

B. RECEPTACLES: #5362 SERIES. C. COVER PLATES: SMOOTH PLASTIC

NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.

- CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- BASED ON THE SQUARE "D" COMPANY; HOWEVER, COMPARABLE EQUIPMENT BY EATON, G.E., AND SIEMENS WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER N.E.C. IIO.16 FOR ALL SWITCHBOARDS AND
- 21. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
- 22. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY THE OWNER'S SCHEDULE.
- 23. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
- 24. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
- 25. CONDUIT SYSTEM REQUIREMENTS:

ABOVE FINISH FLOOR, CEILINGS, ETC. (INDOOR) - EMT WITH COMPRESSION TYPE STANLESS

DAMAGE.

SEALTITE - OUTDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-O".

THE FOLLOWING APPLICABLE COLOR CODES SHALL BE IMPLEMENTED AND POSTED IN ALL PANELS, DISCONNECT SWITCHES, ETC., PER NEC ARTICLES 200.6(D) AND 215.12:

BLACK PHASE 'A'

PHASE 'B' RED PHASE 'C'

GREEN GROUND ISOL. GROUND GREEN/YELLOW

ELECTRICAL CODE (N.E.C.) AND CHAPTER 5 OF CITY OF TAMPA CODE.

LABEL WHERE APPLICABLE.

AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE

- BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
- HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED
- 14. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE

A. SWITCHES: #1221-2 SERIES.

- 15. ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH ANY CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF THREE TIMES THE DIAMETER OF THE LARGEST RACEWAY.
- 16. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE
- 17. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C.
- 18. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING
- 19. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
- 20. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS
- COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANIES' REPRESENTATIVES TO MEET

UNDERGROUND - PVC WITH RIGID 90 THROUGH SLAB.

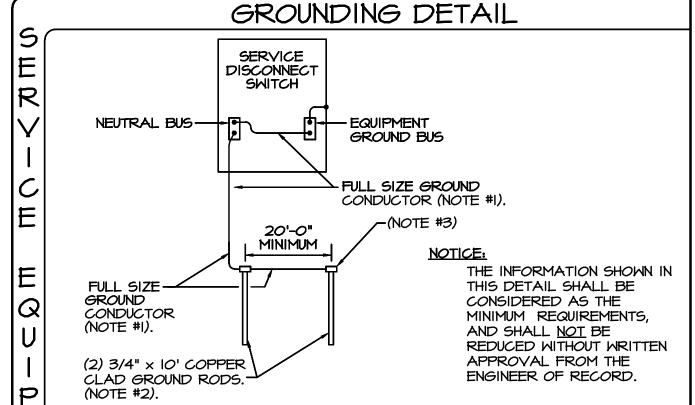
GALVANIZED RIGID CONDUITS - ABOVE GRADE AND WHERE SUSCEPTIBLE TO PHYSICAL

FLEXIBLE CONDUITS - INDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-O".

26. CONDUCTOR COLOR CODING:

120/240V., I-PH.

MHITE NEUTRAL



FULL SIZE GROUND MEANS THAT GROUND CONDUCTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.

. AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF IO OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE

ALL CONNECTIONS TO GROUND RODS SHALL BE MADE VIA A U.L. LISTED MECHANICAL MEANS.

2017 FLORIDA BUILDING CODE, ENERGY CONSERVATION (6TH EDITION)

SECTION C405.6 ELECTRIC POWER

C405.6.3 <u>VOLTAGE DROP</u> THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE

SIZED FOR A MAXIMUM OF 5 % VOLTAGE DROP TOTAL.

CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:

- A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION
- 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

C405.6.4.2 MANUALS

CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SECTION C408 SYSTEM COMMISSIONING

C408.3.I FUNCTIONAL TESTING:

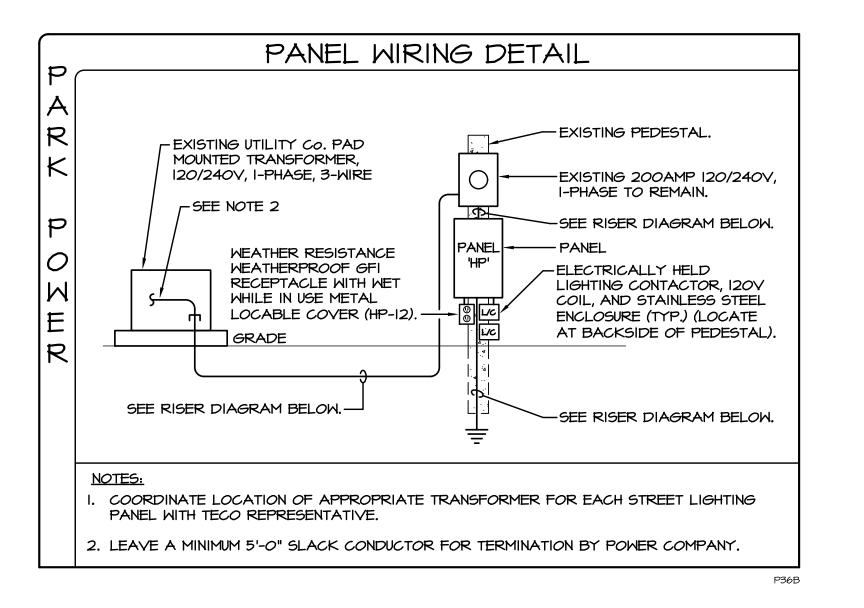
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER MORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.

NOTES

- (|) EXISTING I-PHASE 120/240V., TRANSFORMER TO REMAIN. COORDINATE WITH TECO FOR ACCESS TO THE TRANSFORMER.
- (2) EXISTING 20 AMP, I-PHASE, I2OV., ENCLOSED CIRCUIT BREAKER TO BE REMOVED. RELOCATE LOAD TO NEW PANEL 'HP'.
- (3) 12-POLE, ELECTRICALLY HELD CONTACTOR, IN A STAINLESS STEEL ENCLOSURE, WITH 120Y COIL, EQUAL TO ABB-A16-120L-00-84(120Y. COIL). CONTACTOR SHALL BE CONTROLLED BY EXISTING CITY CONTROLLER. PROVIDE I" CONDUIT WITH WIRE AS REQUIRED BETWEEN CONTACTORS AND CITY CONTROLLER PANEL. COORDINATE WITH KEN STEAD @ (813) 690-7111 OR MARK NEUBERGER @ (813) 478-5280 FOR CONTROL REQUIRMENT AND PROVIDE ACCORDINGLY. CI - PHOTOCELL ON TIMECLOCK OFF. C2 - PHOTOCELL ON PHOTOCELL OFF. STAINLESS STEEL ENCLOSURE SHALL BE PROVIDED BY CONTRACTOR. NOT A STANDARD FROM MANUFACTURER.
- $\langle 4 \rangle$ PROVIDE NEW 3-#I/O IN AN EXISTING I-I/2" PVC CONDUIT.
- (5) EXISTING 200 AMP SELF CONTAINED METER ENCLOSURE, TO REMAIN AND BE REUSED.
- $\langle 6 \rangle$ CONTRACTOR TO LEAVE A MINIMUM 5'-O" SLACK CONDUCTOR FOR TERMINATION BY POWER COMPANY.
- $\langle 7 \rangle$ #4 CU SERVICE GROUND PER DETAIL, THIS SHEET.
- $\langle 8 \rangle$ surge suppressor equal to surge suppression inc #STMI2ISI-X. CONNECT WITH ATTACHED LEADS PER MANUFACTURER'S INSTRUCTIONS.

SERVICE ENTRANCE RATED

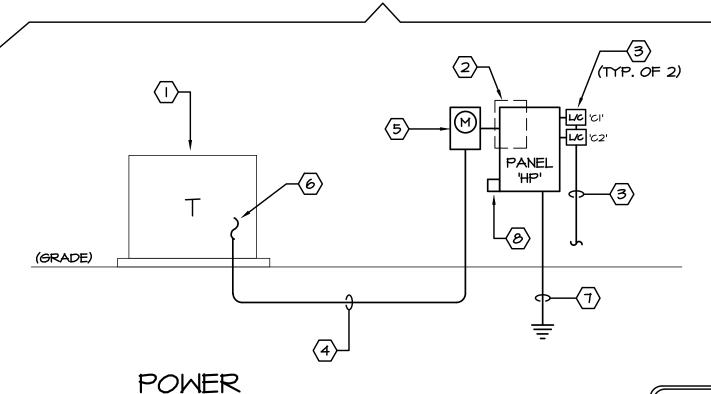
M/	NUFA C	TURER:	SQ	UARE '[)'	-	-	PAN	IEL:	ı	HP	LOCA	TION:	PEDESTAL MOUNT	SPECIAL:	STAIN		IN DO		RE
	PA NEL	TYPE:	PANELE	OARD	_	FED FROM: UTILITY XFMR	120/	240	V OLTS	1 PI	HASE 3	WIRE/S	OLID I	NEUTRAL AMPERE BUS	15	0	A MPERE	MAIN	150	0
	22K	INTERF	RUPTING C	A PA CITY	(AIC)	RA TED: SERIES:	-	FULL:	X	М	OUNTING:	F	LUSH	_ SURFA Œ X			MA IN	I TYPE	BREAI	KER
No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	Α		В	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No
1	0.4	C1	(*)	(*)	(*)	SITE LIGHTING	L	20	1.2			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.8	2
3	0.4	C1	(*)	(*)	(*)	SHE LIGHTING	L	20			0.8	20	L	SHADE STRUCTURE LTG	(*)	(*)	(*)	<u>C1</u>	0.4	4
5	0.3	C2	(*)	(*)	(*)	SITE LIGHTING	L	20	0.7			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.4	6
7	0.3	C2	()	()	()	SILE LIGHT ING	L	20			0.7	20(L)	L	SHADE STRUCTURE LTG	()	()	()	C1	0.4	8
9	0.0	-				SPARE	-	60	0.4			20	R	SHADE STRUCTURE REC.	(*)	(*)	(*)	C1	0.4	10
11	0.0	-	-	-	_	SI AND	-	00			0.4	20	R	RECEPTACLE	2#12	1#12	1/2"	C1	0.4	12
13	1.2	C1	(*)	(*)	(*)	SIGN	L	20	1.8			20(L)	М	CITY CONTROLLER	2#12	1#12	1/2"	(1)	0.6	14
15	0.0	-	1	-	-	SPARE	-	20			0.0	20	1	SPARE	-	-	-	-	0.0	16
17	0.0	-	=	ſ	=	SPARE	-	20	0.0			20	1	SPARE	=	=		.=.	0.0	18
19	0.0	-	í.	1	-	SPARE	-	20			0.0	20	E	SPARE	-	1	·	1	0.0	20
21	0.0	-	1	1	-	SPARE	-	20	0.0			20	1	SPARE	-	-	-	-	0.0	22
23	0.0	-	-	ſ	·	SPARE	-	20			0.0	20	1	SPARE	С	-	-	-	0.0	24
25	0.0	-	-	3	J.	SPARE	-	20	0.0			20	п	SPARE	п	=	- 21	_	0.0	26
27	0.0	-	-	1	-	SPARE	-	20		_	0.0	30	-	SURGE SUPPRESSOR	CONNECT		ACHED	_	0.0	28
29	0.0	-	-	-	-	SPARE	-	20	0.0			3	-	SONGE SOLL MESSON	(LEADS		-	0.0	30
20(L) = PRO	OV IDE H	ANDLE LO	OCKING D	DEVICE F	FOR THIS BREAKER KVA	SUB 1	OTA LS:	4.1		1.9			STD. DEMAND FACTOR (1.0):	2.6		BV XI		KVA	
(*)	SEE E	LECTRIC	AL SITE F	PLAN E1.	.0 FOR (CONDUIT AND WIRE SIZES				_				+ LTG DEMAND (1.25 LTG):	4.3					_
. ,						CONTROLLER.	-	-	0.0]	0.0			+ KITCHEN DEMAND:	0.0		DEMA NE		6.9	
	SEE RIS	ER DIA G	RAM NOT	E #2 BE	LOW.	G	RA ND	TOTA L:	4.1]	1.9					DEM/	A ND A ME	PERES:	28.5	<u> </u>
-	KITCHEN MULTIPLIER PER NEC 2014 TABLE 220.56																			



GENERAL NOTES:

- ALL NEW ELECTRICAL SERVICE EQUIPMENT INSTALLED OUTDOORS SHALL HAVE STAINLESS STEEL ENCLOSURE.
- 2. ALL HARDWARE USED TO MOUNT ELECTRICAL EQUIPMENT OUTDOORS SHALL BE STAINLESS STEEL TO PREVENT CORROSION.
- 3. ALL CONDUCTORS INSTALLED IN CONDUITS BELOW GRADE SHALL BE TYPE XHHW.

SEE ELEVATION OF NEW SERVICE THIS SHEET



RISER DIAGRAM

NO SCALE

CHEHAYEB & ASSOCIATES, INC. CONSULTING PROFESSIONAL ENGINEERS 3702 AZEELE ST. (813) 876-1415 TAMPA, FL 33609 (fax) 876-0913 SOUHEIL CHEHAYEB CERT. #7340

18-65

STREET

Permit-Seal

Project Number: 215612562 SCALE: AS NOTED SS SS 18.10.08

Chkd. Dsgn. YY.MM.DD Drawing No. E2.0 Revision Sheet

3 of 4

SECTION 16010 - GENERAL PROVISIONS

- I. GENERAL
- I.OI The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
- 2. DRAWINGS AND SPECIFICATIONS
- 2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.
- 2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.
- 2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.
- 2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.
- 2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
- 2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
- 2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
- EXAMINATION OF SITE
- 3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work. The submission of a bid will be evidence that such an examination has been made. Later claims for labor, equipment of materials required, or for difficulties encountered which could have been foreseen had an examination been made, will not be allowed.
- 4. DEFINITIONS
- 4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
- 4.02 "Furnish" shall mean to purchase and supply equipment or components.
- 4.03 "Provide" shall mean to "furnish and install".
- 4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
- 5. INTERFERENCES
- 5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.
- MATERIALS AND WORKMANSHIP
- 6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
- 6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.
- 6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
- 6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the
- 6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
- 7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.
- 8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
- 8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.
- 9. CODES, LAWS, PERMITS AND INSPECTIONS
- 9.01 Install all work in full accord with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the City Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electric Code, as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.
- 9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
- 9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate, before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.
- IO. FIELD CHANGES (RECORD DRAWINGS)
- 10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.
- LABELING AND NAMEPLATES
- II.OI Permanently label transformers, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
- II.02 Lighting and appliance panels shall be labeled as shown on drawings.
- II.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by
- 11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

- 11.05 Materials
 - Nameplates: Engraved three-layer laminated plastic, white letters on a black background.
- II.06 Installation
 - Degrease and clean surfaces to receive nameplates and tape labels. Install nameplates and tape labels parallel to equipment lines.
 - Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.
 - Mark every junction or pull box cover plates with the circuit number(s) of all wires contained
- 11.07 Wire Identification:
 - Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawlings for control wiring or as drawlings
 - All wires shall be color coded. Color code branch circuit wiring as follows:

V., 3-PH
ck
d
3
e
•

- Switched Wires: Other than colors listed above
- 4. Travelers Between 3-Way Switches: Purple
- Insulated Ground: Green
- **GUARANTEE**
- 12.01 In addition to quarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good ány defects in material and workmanship occurring during this period, at his sole expense. This one (1) year period shall start from the date of final acceptance by Owner.
- 13. SCOPE OF WORK
- 13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings,

specified herein or required to complete the construction of the building as shown.

- 13.02 The listing herein of article or material, operation or method, required that the Contractor shall provide and install, unless noted to be supplied by others, each item listed of quality or subject to qualification noted. Each operation shall be performed according to standard practice, manufacturer's instructions and conditions stated, providing, therefore, all necessary labor, equipment and incidentals.
- 13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.
- 13.04 The electrical work shall include but is not limited to the following:
 - Complete power and lighting distribution systems including panels, as shown on plans.
 - Complete branch circuit wiring system.
 - Temporary electric service as required for construction.
- Testing of all electrical equipment.
- Provide and install complete site lighting system as shown on plans.
- 14. MANDATORY SHOP DRAWINGS
- 14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.
- 14.02 Shop Drawings shall be submitted for:
 - Switchgear
 - All Sité Lighting Fixtures All Wiring Devices

END OF SECTION 16010

SECTION 16100 - BASIC MATERIALS AND METHODS

- I.OI All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.
- A. Conduit below first floor slab or underground shall be rigid, threaded, galvanized, heavy wall type.
- Conduit exposed to weather shall be rigid, threaded, galvanized, heavy wall type and shall be painted with an approved bitumastic coating to prevent corrosion.
- Carlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of threaded, galvanized conduit. PVC schedule 40 conduit shall not be run in or above first floor slab. PVC conduit shall terminate below floor slab with riqid, threaded metal conduit adapter. Conduit above slab shall be metal.
- D. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be copper, and sized per the N.E.C. or as shown on drawing, whichever is more stringent.
- E. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc., shall be concrete encased. This conduit shall comply with NEMA TC-6 and -8 (Power), TC-10 (Telephone),
- ASTM F512 (Concrete Encasement Applications) and UL-651 (Standard). F. PVC conduit used between lighting standards shall be Carlon Type 40 min. and comply with NEMA TC-2, TC-3,
- 1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriters'

1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.

1.04 E.M.T. connectors and couplers shall be compression type made of stainless steel as manufactured by Thomas & Betts, Steel City, or Appleton. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings ass required by the National Electrical Code and local electrical codes. Insulated bushings shall be used on all conduit I-1/4" trade size and larger.

- 1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each condulet, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.
- 1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. Do not support conduit from metal roof deck or any other support device
- 1.07 Armored cable (BX) shall not be used.
- 1.08 No aluminum conduit shall be used
- 1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be Sealtite
- I.IO Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.
- I.II Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.
- 1.12 Nonmetallic sheathed cable (Romex) may be used where allowed by N.E.C. (latest edition) and by local authority having jurisdiction, except where shown otherwise in these documents. See sheet El.I and El.2 for restrictions.
- 2. CONDUCTORS
- 2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 98% conductivity copper. Aluminum wire or aluminum cable is not acceptable.
- A. The gauge of all wire shall be in accordance with B&S standard.
- 2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN" or "THWN" 600-volt
- 2.03 Wire and cable above #12 gauge shall be stranded Type "THHN/THWN" insulated for 600-volts.
- 2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be
- 2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.
- 3. GROUNDING
- 3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.
- 3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.
- 3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely
- grounded both mechanically and electrically in accordance with all codes. 3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance. Test grounding system and add additional
- grounding as required to meet the above specified value.
- 3.05 Main grounding system shall be sized to conform with Section 250, Table 250-94 of the National Electrical Code. Provide conduit to protect wire from damage to an area eight feet (8') above floor.
- 3.06 A ground conductor shall be supplied in ALL conduit and nonmetallic sheathed cable. It shall be insulated, stranded, annealed copper conductor.
- 4. TOGGLE SWITCHES AND RECEPTACLES
- 4.01 All general receptacles and switches shall be 20 amps rated, commercial grade, standard style.
- Color shall be verified with owner/architect. 4.02 Acceptable device manufacturers are Hubbell, Arrow Hart, Leviton, or Bryant. This basis of design is Leviton.
- 4.03 Wall Switches: commercial grade (standard style)
 - Single poles #1221, Three (3) way switches #1221-3, and Four way #1221-4
- shall be rated 20-ampere, 120/277 volts. Switches shall be mounted 4'-0" above finished floor to centerline.
- 4.04 Tamper resistance duplex receptacles shall be 20-ampere at 125-volts, commercial grade Decora style, Leviton catalogue #T5825 or approved equal. Mount at 18" above floor to centerline or as noted on plans.
- WALL PLATES
- 5.01 Unless otherwise noted, all plates in finished areas for wall switches, receptacles and telephone outlets shall be white.
- 5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and cellings.
- 6. OUTLETS
- 6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturers of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.
- 6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by I-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.
- 6.03 Outlets on the exterior of the building and where shown on the plans, shall be flush weatherproof type.
- 6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.
- 6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.
- BRANCH CIRCUIT WIRING
- 7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.
- 7.02 All circuits shall be color coded where applicable.
- END OF SECTION 16100

SECTION 16400 - ELECTRICAL SERVICE AND DISTRIBUTION

SECONDARY SERVICE

accordingly.

- Electrical service shall be secondary, as shown on plans with grounded neutral and secondary metering. Provide all necessary equipment and material and install the service, metering and distribution equipment
- The Electrical Contractor shall be responsible for contacting the power company to secure complete details
- Electrical Contractor shall provide secondary service cables and conduits as shown on plans.
- Site electrical, including provisions for the primary services lines and transformer shall be coordinated with local power company by Electrical Contractor.
 - Provide coordination, via the General Contractor, of the Site Electrical Contractor for the final locations, penetrations, and service tie-ins associated with secondary power service entrance conduits.
- This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.

- 2.02 Fuses shall be as indicated on plans.
- Provide label in each switch indicating fuse type, ampere rating and interrupting rating.
- Replace all blown fuses up to final acceptance of job.
- 2.03 Fuses shall be as specified herein and indicated on drawings. In the event the Electrical Contractor wishes to furnish materials other than those specified, a written request, along with complete application data to assure a selectively coordinated system, shall be submitted to the Engineer for evaluation. Alternate manufacturer is Littlefuse.
- SAFETY SWITCHES
- Provide horsepower rated, quick-make, quick break, general duty safety switches with the number of poles and fuses as required.
- 3.02 Switches shall have arc shields, to be of heavy enclosed construction and fusible or non-fusible as indicated. Switches shall be rated for 240 volt AC.
- 3.03 All switches shall be capable of interrupting locked rotor current of motor which it serves.

3.04 Enclosures: NEMA I for interior use, stainless steel for exterior use unless noted otherwise.

3.05 Provide dual-element type fuses (fusetrons) for any fusible safety switch serving a motor circuit.

- 3.06 Provide non-fusible switches at remote motor locations (rain-tight where required) as indicated on the
- 3.07 Identify safety switches with bakelite nameplates in accordance with Section 16010.
- DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)
- Panels, shall be, Panel board type, dead front type, copper buss, with lugs only in the mains and branch circuits as indicated on the drawings. Panels shall have 20 amp single 2-pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be Bolted to the bus type, quick-make, quick-break and capable of interchanging I or 2-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be U.L. approved CU/AL tupe.
- 4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At finish of job, Electrical Contractor shall take current reading checks of respective phases. A minimum of circuit connections shall be rearranged to balance (as closely as possible) the load on the panel.
- 4.03 Panels shall be enclosed in galvanized steel of code thickness. Cabinets shall be large enough to allow standard size wiring gutters on each side, top and bottom of panels. Mount not over 6'-6" from floor to
- 4.04 Panels shall be provided with spares and full provisions for future breakers as shown.
- 4.05 Panels shall be manufactured as a complete unit by Siemens-ITE, Square D, General Electric Company; or Challenger, not an assembly of parts secured from a supply house.
- 4.06 Panelboards and switches shall be identified for "usage".
- 5. GENERAL:
- 5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.
- 5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.
- Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.
- END OF SECTION

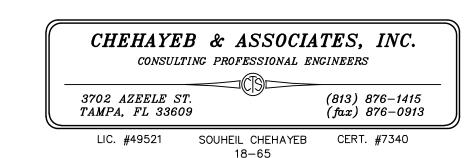
SECTION 16500 - LIGHTING

1.04 All fixtures shall be new and undamaged

LIGHTING FIXTURES

END OF SECTION 16500

- All fixtures shall be as shown on Fixture Schedules, and approved by owner.
- Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as
- indicated on the Lighting Fixture Schedules, including lamps. 1,03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.
- Surface-mounted fluorescent fixtures shall be mounted 6" from ceiling. Mount spacers and supports on 48" centers with additional support at the end of each row of fixtures.
- 1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angle, rods, etc. In general, fixtures shall be supported in a manner acceptable to the local inspection authorities. All fixtures shall be firmly supported from beams or joists. 1.07 This Contractor shall support all fixtures from building structural members and NOT from ceiling system.



PARK

STREET

SON

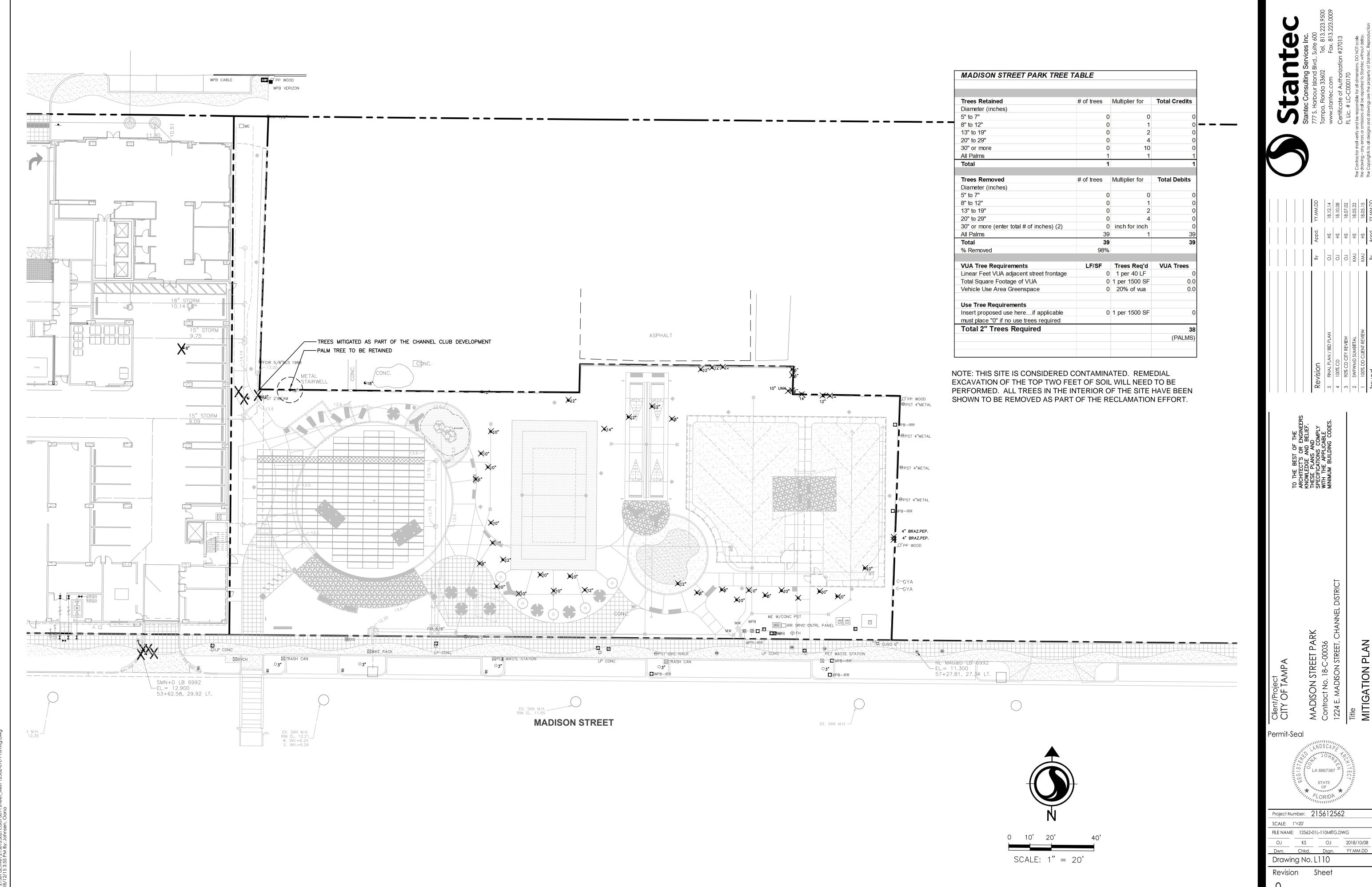
Permit-Seal

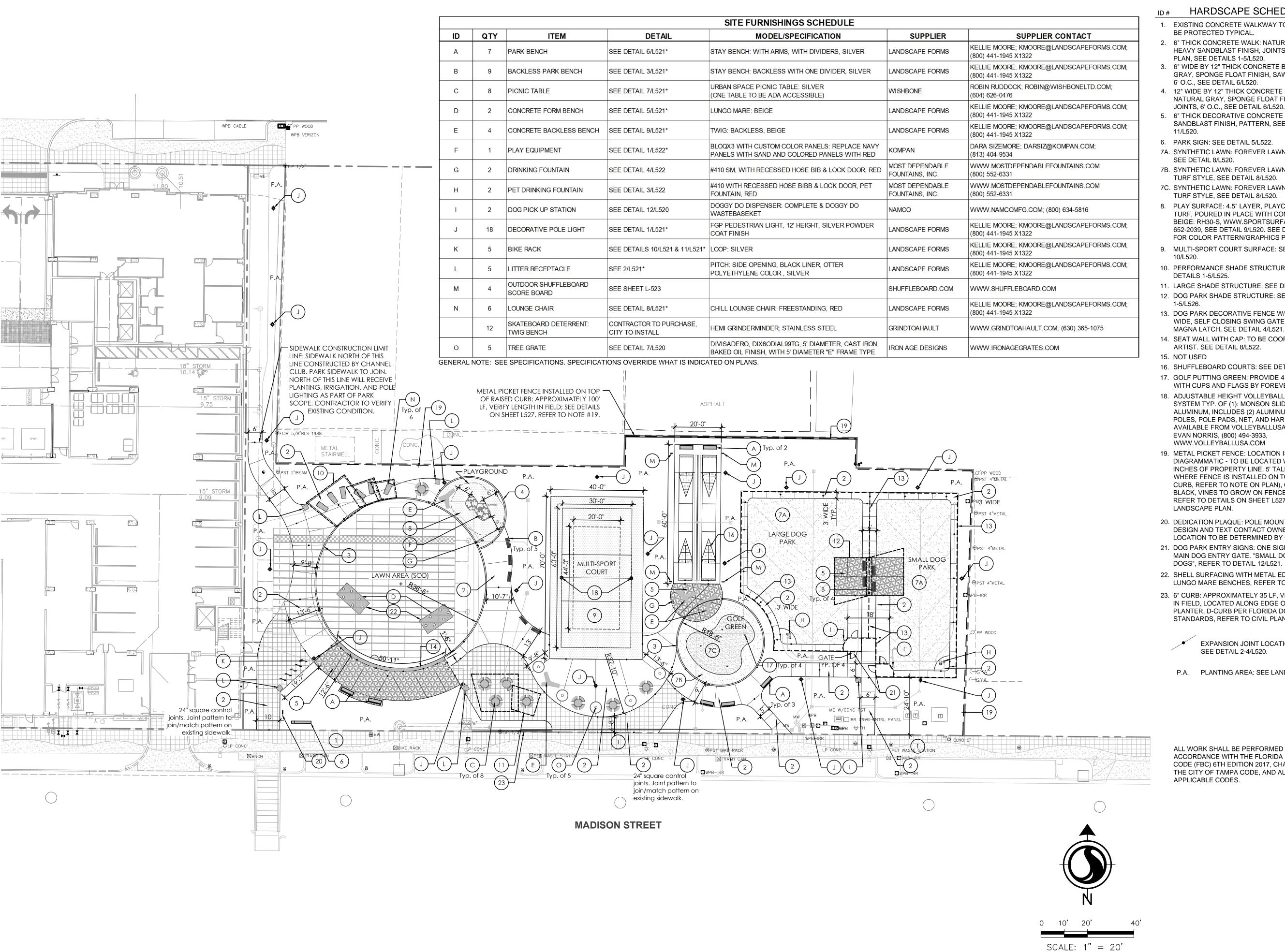
Project Number: 215612562

SCALE: AS NOTED

SS 18.10.08 SS Chkd. Dsgn. Drawing No. E3.0 Revision Sheet

4 of 4





ORIGINAL SHEET - ANSI D

ID# HARDSCAPE SCHEDULE

1. EXISTING CONCRETE WALKWAY TO REMAIN AND BE PROTECTED TYPICAL.

2. 6" THICK CONCRETE WALK: NATURAL GRAY, HEAVY SANDBLAST FINISH, JOINTS VARY SEE

PLAN, SEE DETAILS 1-5/L520. 3. 6" WIDE BY 12" THICK CONCRETE BAND: NATURAL GRAY, SPONGE FLOAT FINISH, SAW CUT JOINTS,

4. 12" WIDE BY 12" THICK CONCRETE BAND: NATURAL GRAY, SPONGE FLOAT FINISH, SAW CUT JOINTS, 6' O.C., SEE DETAIL 6/L520.

5. 6" THICK DECORATIVE CONCRETE PAVING: HEAVY SANDBLAST FINISH, PATTERN, SEE DETAIL

6. PARK SIGN: SEE DETAIL 5/L522.

7A. SYNTHETIC LAWN: FOREVER LAWN, K-9 CLASSIC SEE DETAIL 8/L520.

7B. SYNTHETIC LAWN: FOREVER LAWN, GOLF FRINGE TURF STYLE, SEE DETAIL 8/L520.

7C. SYNTHETIC LAWN: FOREVER LAWN, PIN SEEKER TURF STYLE, SEE DETAIL 8/L520.

8. PLAY SURFACE: 4.5" LAYER, PLAYCORE, DURA TURF, POURED IN PLACE WITH CONCRETE BASE, BEIGE: RH30-S, WWW.SPORTSURFACE.NET, (716) 652-2039, SEE DETAIL 9/L520. SEE DETAIL 2/L522 FOR COLOR PATTERN/GRAPHICS PLAN.

9. MULTI-SPORT COURT SURFACE: SEE DETAIL 10/L520.

10. PERFORMANCE SHADE STRUCTURE: SEE DETAILS 1-5/L525.

11. LARGE SHADE STRUCTURE: SEE DETAILS 1-5/L524. 12. DOG PARK SHADE STRUCTURE: SEE DETAILS

13. DOG PARK DECORATIVE FENCE W/MATCHED 36" WIDE, SELF CLOSING SWING GATE, PROVIDE

14. SEAT WALL WITH CAP: TO BE COORDINATED WITH ARTIST. SEE DETAIL 8/L522.

16. SHUFFLEBOARD COURTS: SEE DETAILS 1-6/L523.

17. GOLF PUTTING GREEN: PROVIDE 4 GOLF HOLES WITH CUPS AND FLAGS BY FOREVER LAWN.

18. ADJUSTABLE HEIGHT VOLLEYBALL NET SLEEVING SYSTEM TYP. OF (1): MONSON SLIDER SYSTEM: ALUMINUM, INCLUDES (2) ALUMINUM SLEEVES, POLES, POLE PADS, NET, AND HARDWARE. AVAILABLE FROM VOLLEYBALLUSA, CONTACT EVAN NORRIS, (800) 494-3933, WWW.VOLLEYBALLUSA.COM

19. METAL PICKET FENCE: LOCATION IS DIAGRAMMATIC - TO BE LOCATED WITHIN 6 INCHES OF PROPERTY LINE. 5' TALL (EXCEPT WHERE FENCE IS INSTALLED ON TOP OF RAISED CURB, REFER TO NOTE ON PLAN), COLOR -BLACK, VINES TO GROW ON FENCE PICKETS. REFER TO DETAILS ON SHEET L527 AND LANDSCAPE PLAN.

20. DEDICATION PLAQUE: POLE MOUNTED, FOR DESIGN AND TEXT CONTACT OWNER. FINAL LOCATION TO BE DETERMINED BY OWNER.

21. DOG PARK ENTRY SIGNS: ONE SIGN FOR THE MAIN DOG ENTRY GATE. "SMALL DOGS", "LARGE DOGS", REFER TO DETAIL 12/L521.

22. SHELL SURFACING WITH METAL EDGING UNDER LUNGO MARE BENCHES, REFER TO DETAIL 7/L522.

23. 6" CURB: APPROXIMATELY 35 LF, VERIFY LENGTH IN FIELD, LOCATED ALONG EDGE OF NARROW PLANTER, D-CURB PER FLORIDA DOT STANDARDS, REFER TO CIVIL PLANS.

> EXPANSION JOINT LOCATION SYMBOL, SEE DETAIL 2-4/L520.

P.A. PLANTING AREA: SEE LANDSCAPE PLANS.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) 6TH EDITION 2017, CHAPTER 5 OF THE CITY OF TAMPA CODE, AND ALL OTHER APPLICABLE CODES.

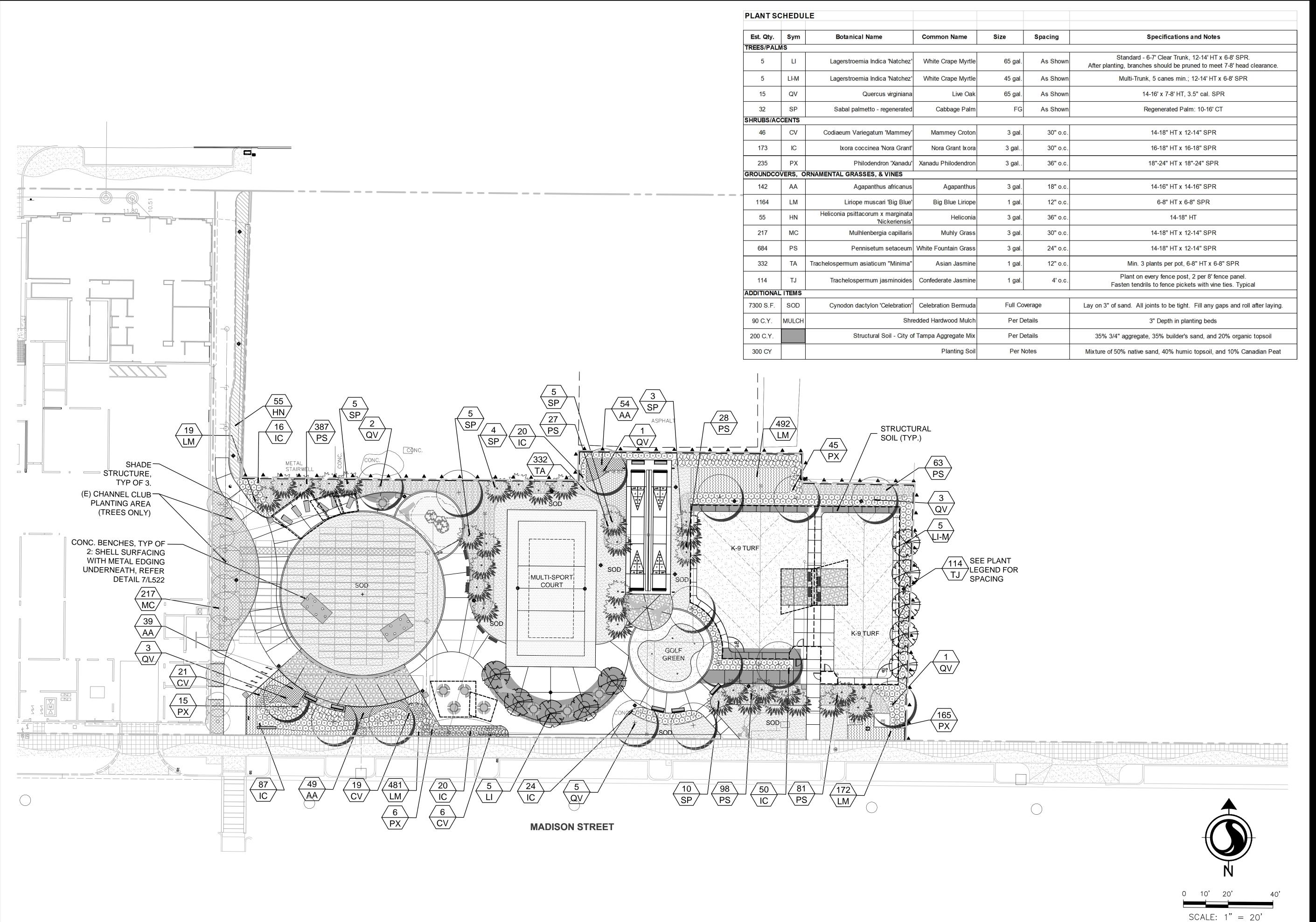
Permit-Seal

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OONA JOHNSEN RLA. LICENSE NO. 6667387

Project Number: 215612562 1"=20" LE NAME: 12562-01L-120HSCP.DWG EB/SN 2018/12/20

Drawing No. L120 Revision Sheet



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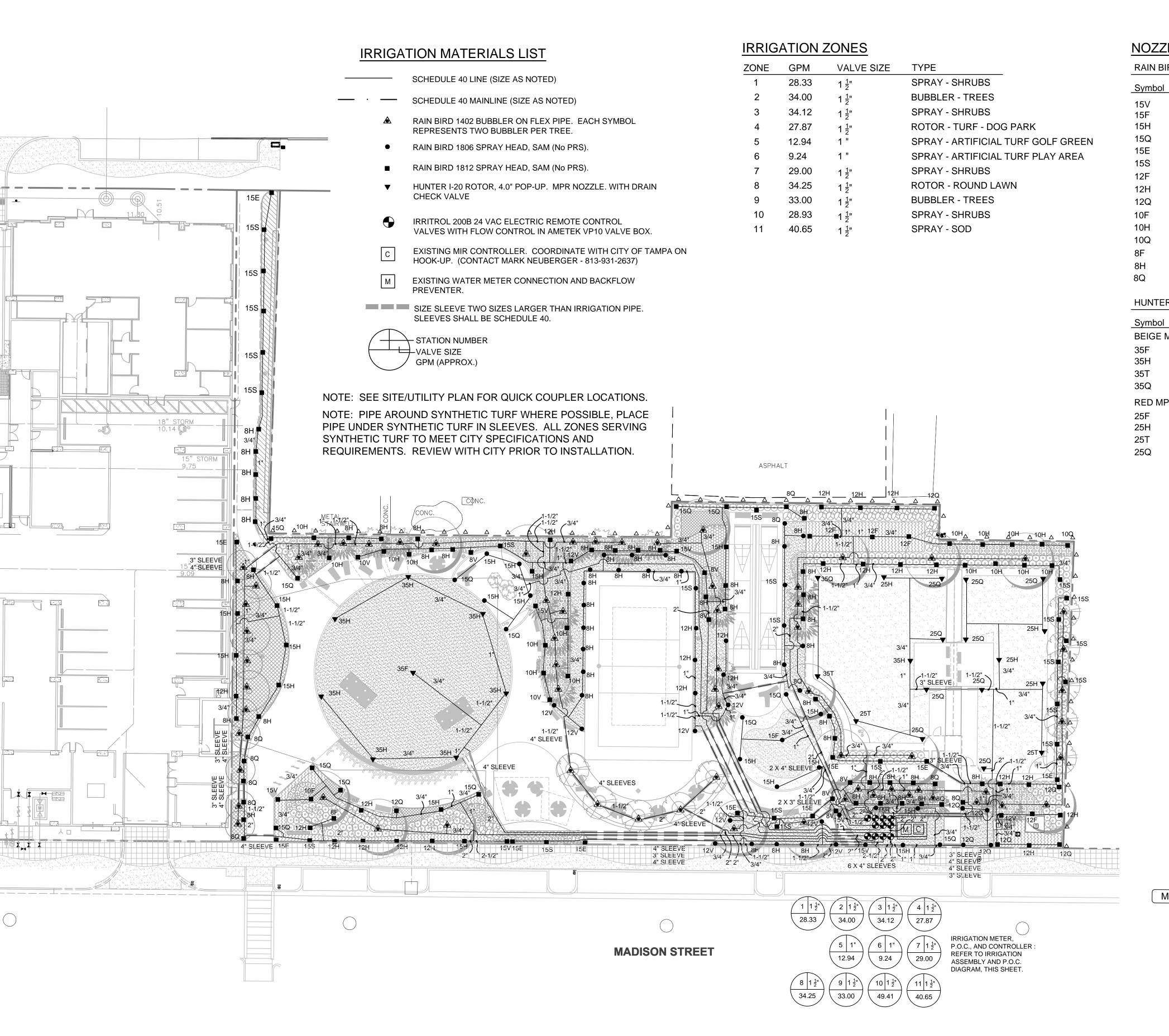
OONA JOHNSEN RLA. LICENSE NO. 6667387

Project Number: 215612562

FILE NAME: 12562-01L-130LSCP.DWG HS KJ 2018/11/29

Drawing No. L130 Revision

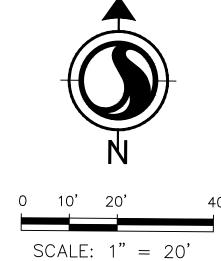
20 of 23



NOZZLE LEGEND

RAIN BIRD 1800 SERIES MPR NOZZLES:

Symbol	Thow / Arc	GPM
15V	15' Variable	Varies
15F	15' 360° Full	3.70
15H	15' 180° Half	1.85
15Q	15' 90° Quarter	0.92
15E	15' x 4' End Strip	0.61
15S	30' x 4' Side Strip	1.21
12F	12' 360° Full	2.60
12H	12' 180° Half	1.30
12Q	12' 90° Quarter	0.65
10F	10' 360° Full	1.58
10H	10' 180° Half	0.79
10Q	10' 90° Quarter	0.39
8F	8' 360° Full	1.05
8H	8' 180° Half	0.52
8Q	8' 90° Quarter	0.26



HUNTER I-20 MPR NOZZLES:

Symbol	Thow / Arc	GPM		
BEIGE MPR-35				
35F	35' 360° Full	7.58		
35H	35' 180° Half	3.81		
35T	35' 120° Third	2.46		
35Q	35' 90° Quarter	1.92		
RED MPR-25				
25F	25' 360° Full	3.82		
25H	25' 180° Half	1.98		
25T	25' 120° Third	1.38		
25Q	25' 90° Quarter	1.00		

- POC (POINT OF CONNECTION) FOR MADISON PARK IRRIGATION SYSTEM



MV: EXISTING MASTER VALVE

V: EXISTING IRRIGATION VALVES FOR

C: EXISTING IRRIGATION CONTROLLER

OONA JOHNSEN RLA. LICENSE NO. 6667387 Project Number: 215612562

SCALE: 1"=20' FILE NAME: 12562-01L-140IRRG.DWG KJ 2018/12/14

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Drawing No. L140 Revision Sheet

ORIGINAL SHEET - ANSI D

M BF FM

IRRIGATION METER AND P.O.C DIAGRAM

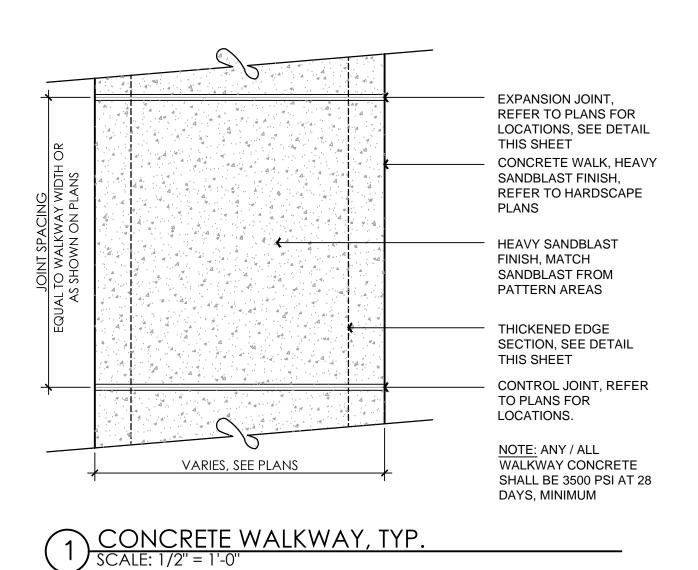
LEGEND:

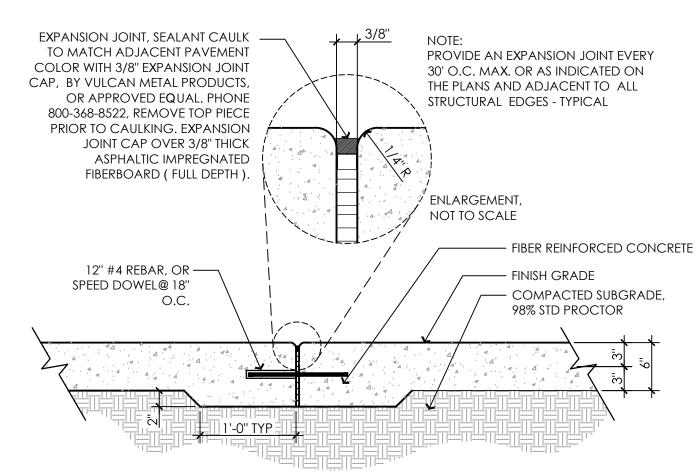
M: EXISTING METER

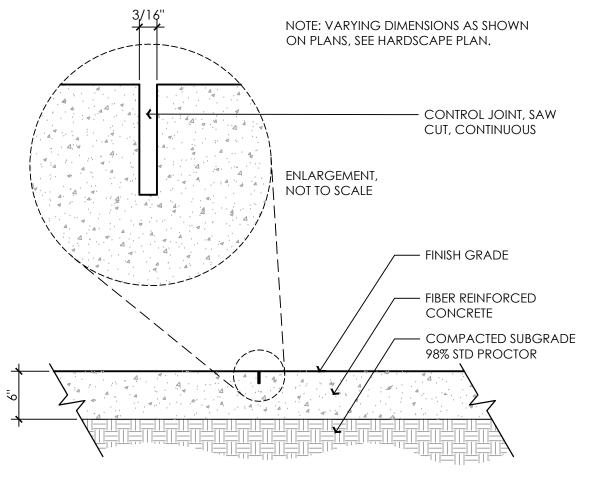
BF: EXISTING BACKFLOW PREVENTER

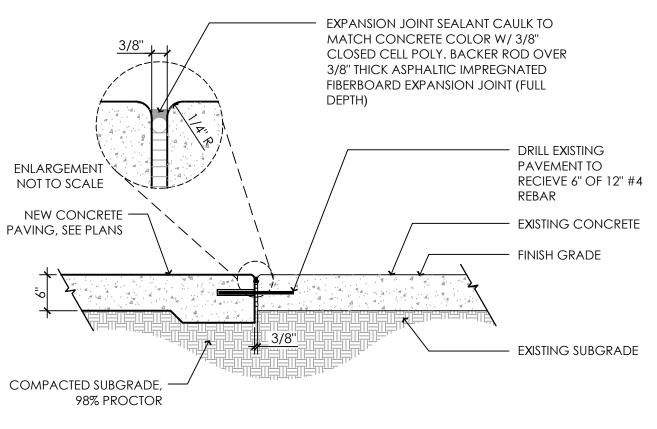
FM: EXISTING FLOW METER

STREETSCAPE





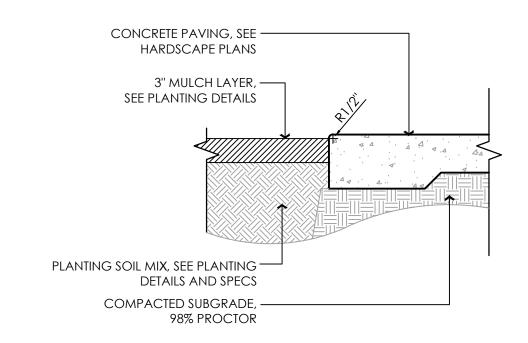


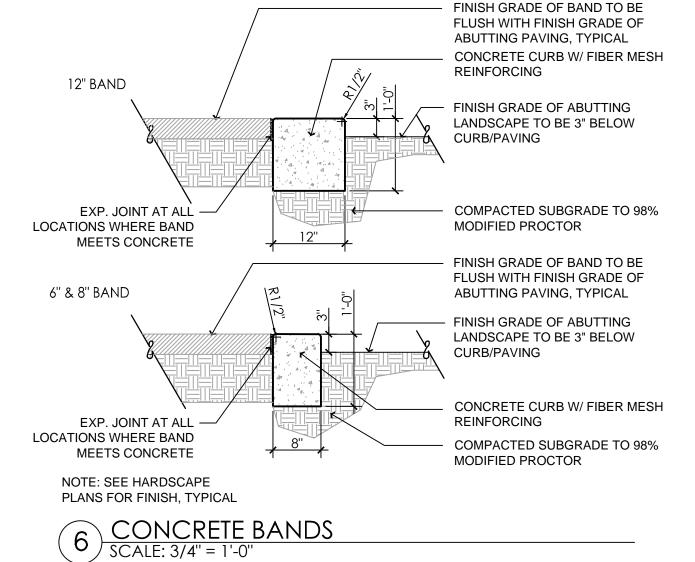


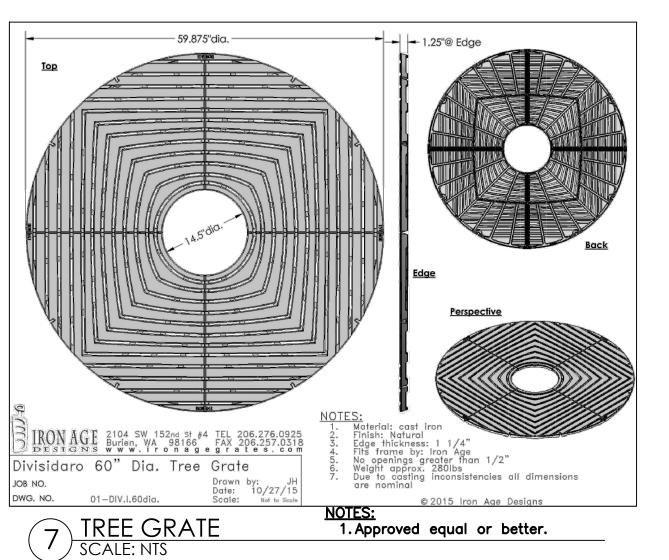


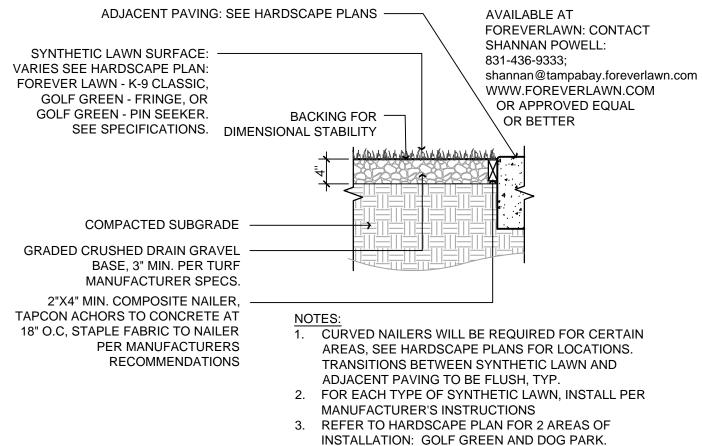
3 6" CONC. - CONTROL JOINT / SAWCUT SCALE: 1" = 1'-0"

(4) EXPANSION JOINT AT EXISTING CONCRETE
SCALE: 3/4" = 1'-0"

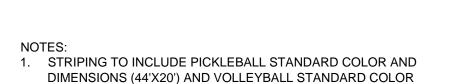




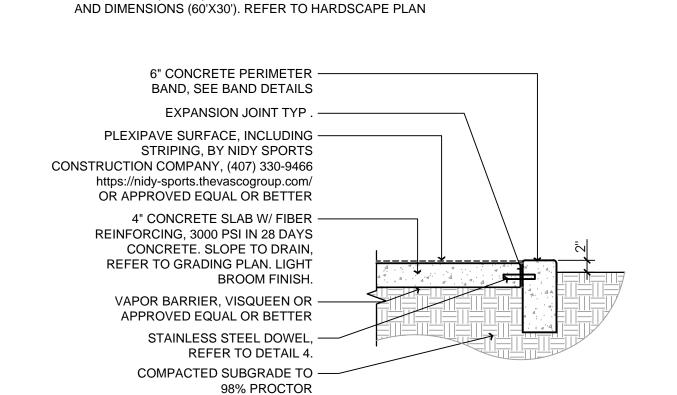


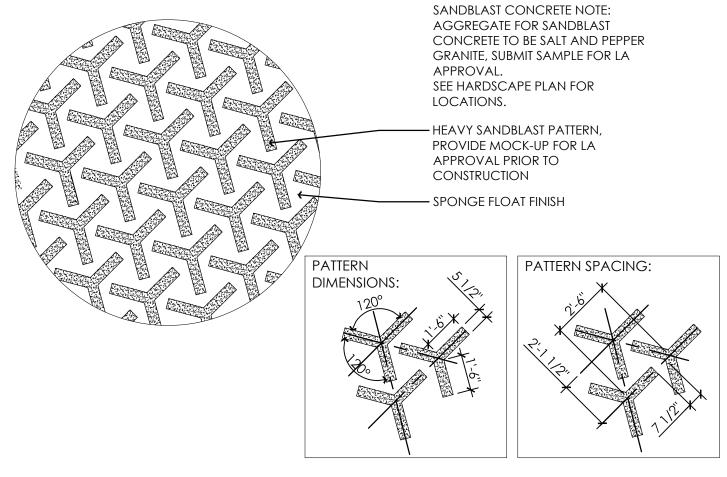


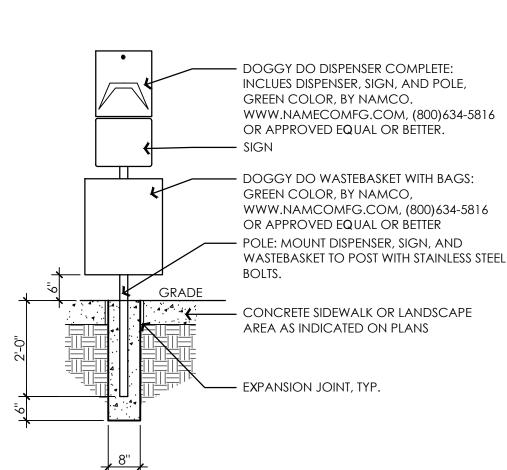
8 SYNTHETIC LAWN AND EDGE ATTACHMENT SCALE: 3/4" = 1'-0"



10 MULTI-SPORT COURT SURFACE







SANDBLAST PATTERN
SCALE: 1/4" = 1'-0"

WASTEBASKET TO POST WITH STAINLESS STEEL

DOG PICK UP STATION
SCALE: 1/2" = 1'-0"



DURA TURF POURED IN PLACE RUBBER SURFACING. AVAILABLE AT: PLAYCORE, (716) 652-2039, WWW.SPORTSURFACE.NET, SEE SPECIFICATIONS. APPROVED

EQUAL OR BETTER. 2. FINISHED GRADE OF SURFACE TO BE SLOPED FOR DRAINAGE CROSS SLOPES NOT TO EXCEED 1.75% IN ANY DIRECTION. SEE CIVIL PLANS FOR SUBSURFACE DRAINAGE.

CONCRETE BAND - SEE BAND DETAILS -3/8" LAYER, POURED IN PLACE RUBBER ——— SURFACING, COLOR BEIGE - RH30-S 4.5" LAYER, UNDERLAYMENT IMPACT COURSE, THICKNESS PER MANUFACTURES RECOMMENDATION BASED ON PLAY EQUIPMENT FALL HEIGHTS CONCRETE BASE, 4" MIN. PER MANUFACTURER SPECS. COMPACTED SUBGRADE STAINLESS STEEL DOWEL,

9 RUBBER PLAYGROUND SURFACE SCALE: 3/4" = 1'-0"

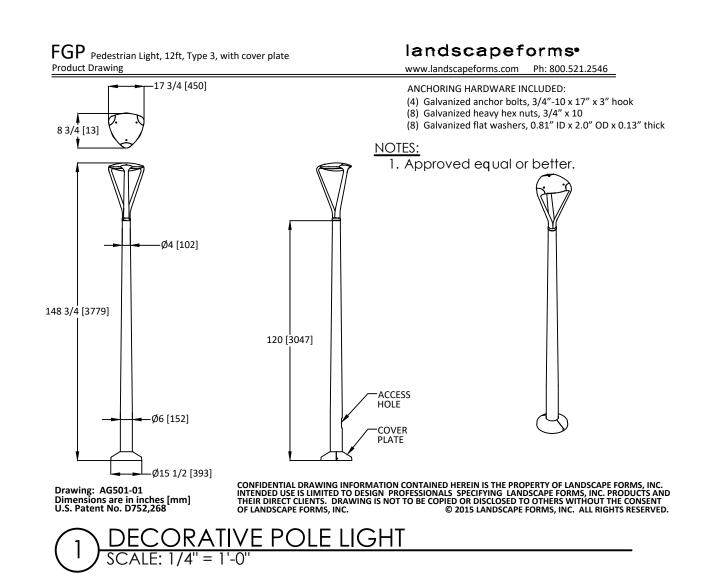
REFER TO DETAIL 4.

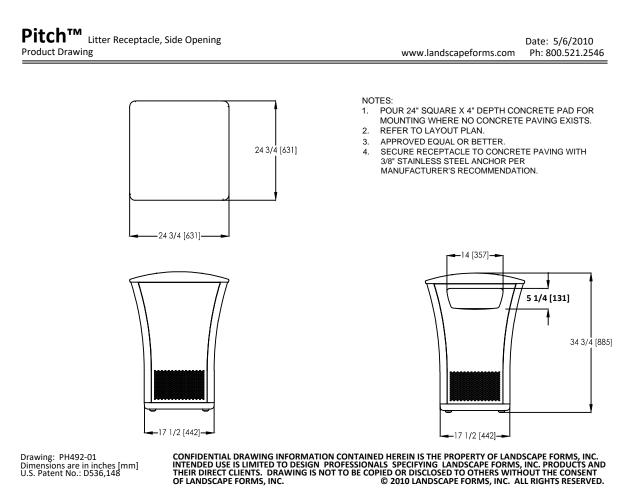
ORIGINAL SHEET - ANSI D

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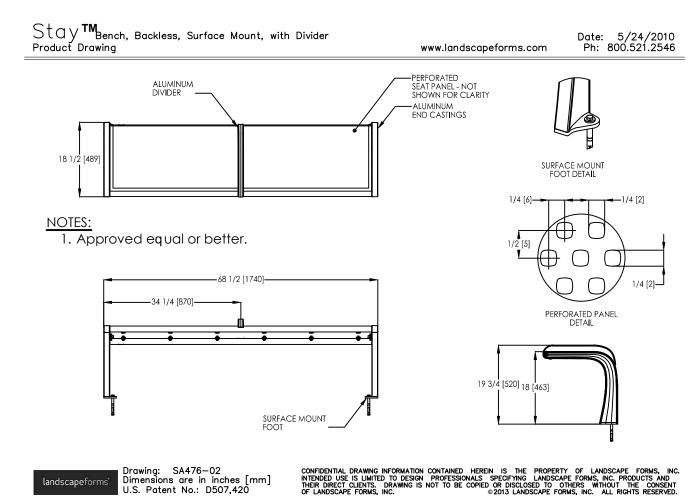
OONA JOHNSEN RLA. LICENSE NO. 6667387 Project Number: 215612562 SCALE: 1"=20' FILE NAME: 12562-01L-520HDTL.DWG OJ 2018/11/28

Drawing No. L520 Sheet Revision

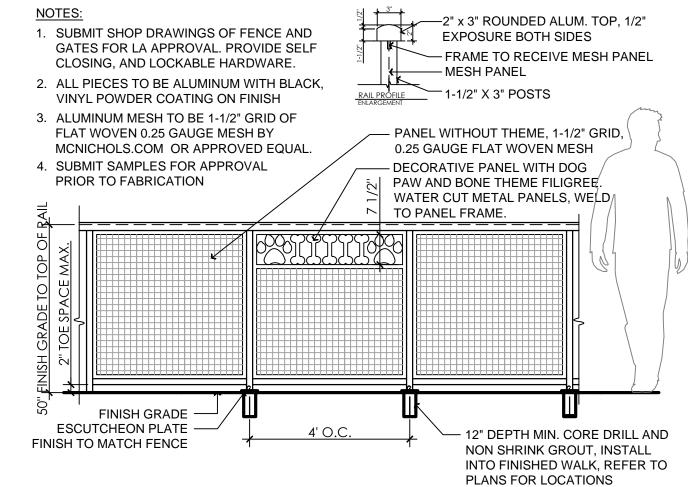




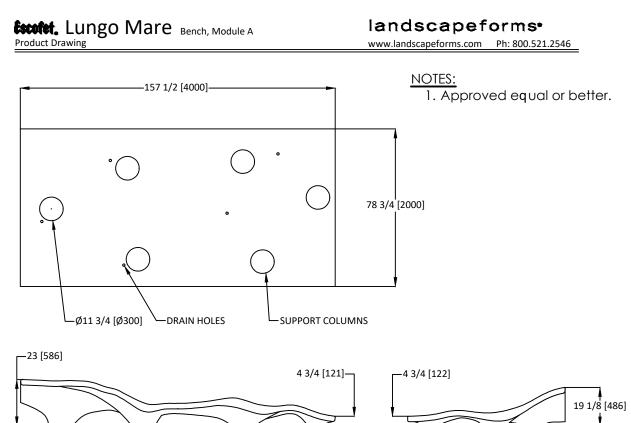
2 LITTER RECEPTACLE
SCALE: 1/2" = 1'-0"

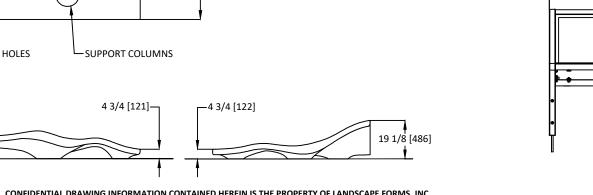


3 PARK BENCH BACKLESS SCALE: N.T.S.

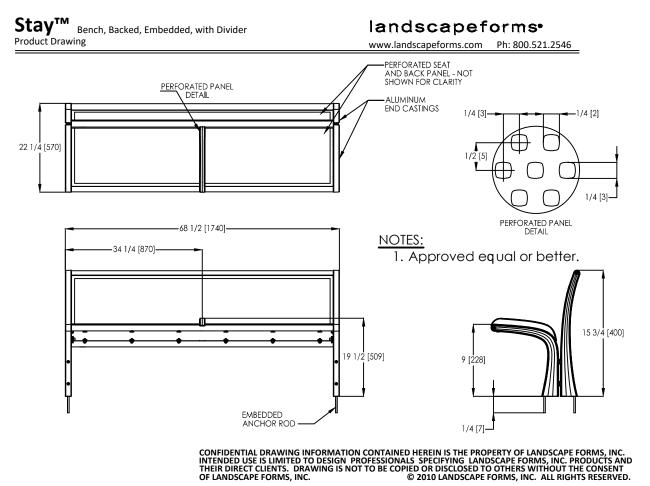




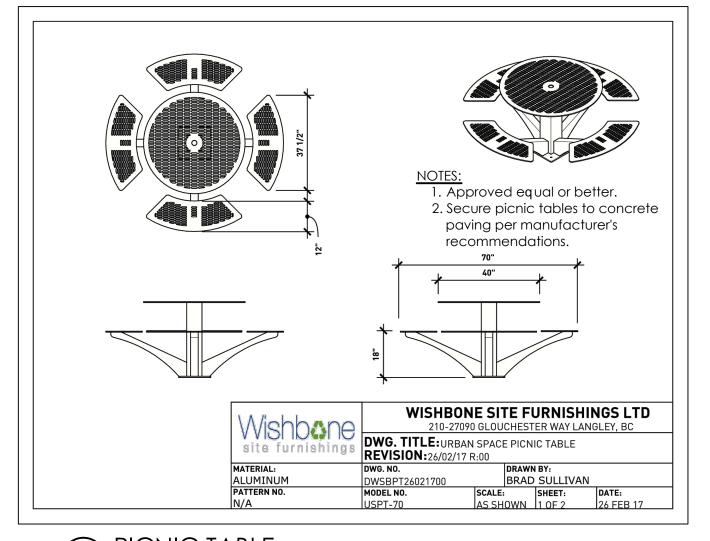




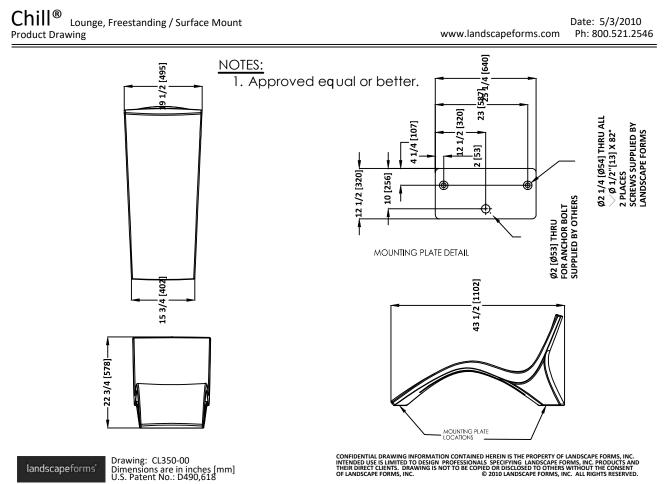




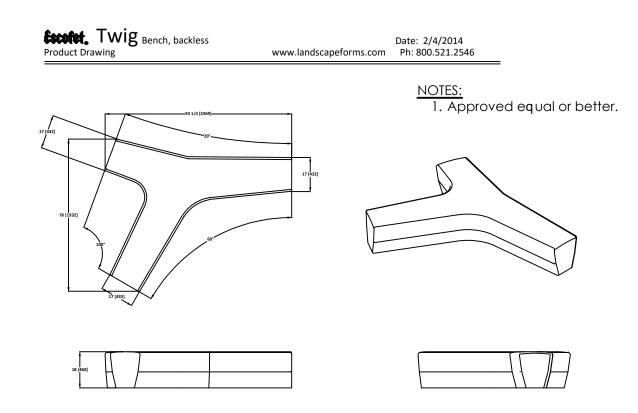




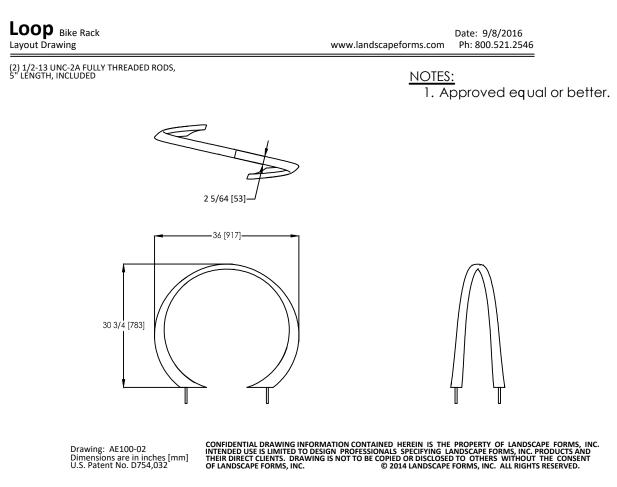
7 PICNIC TABLE SCALE: NTS

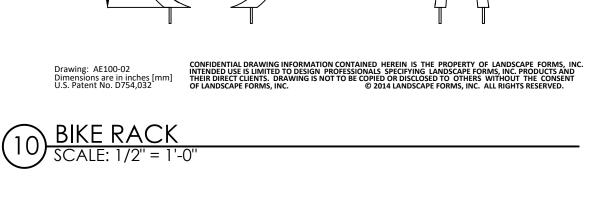


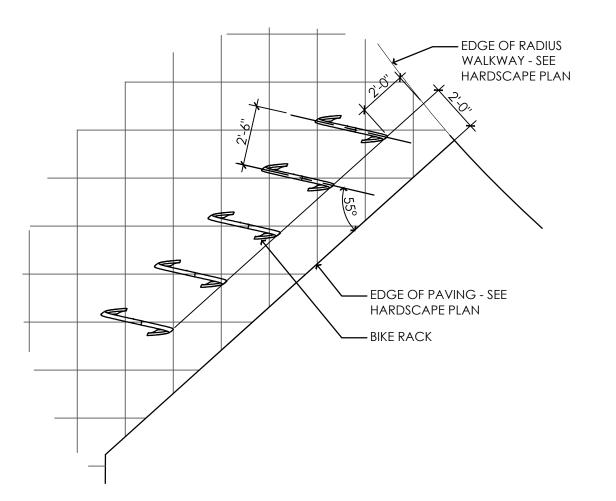












BIKE RACK LAYOUT
SCALE: 1/4" = 1'-0"



CUSTOM ALUMINUM SIGN: REFLECTIVE, ENAMEL-COATED, 1MM ALUMINUM SIGN, SIZE: 14"X10", MOUNTING HOLES AT EACH CORNER. (1) EACH, REFER TO **EXAMPLES FOR GRAPHICS: COLOR** BACKGROUND GREEN, WHITE TEXT ARIAL, BLACK DOG GRAPHIC. SKU: CUSTOM SG3SA. AVAILABLE FROM WWW.COMPLIANCESIGNS.COM; 1-800-578-1245 Equal or better.



12 DOG PARK ENTRY SIGNS
SCALE: NTS

AREA		
SMALL		

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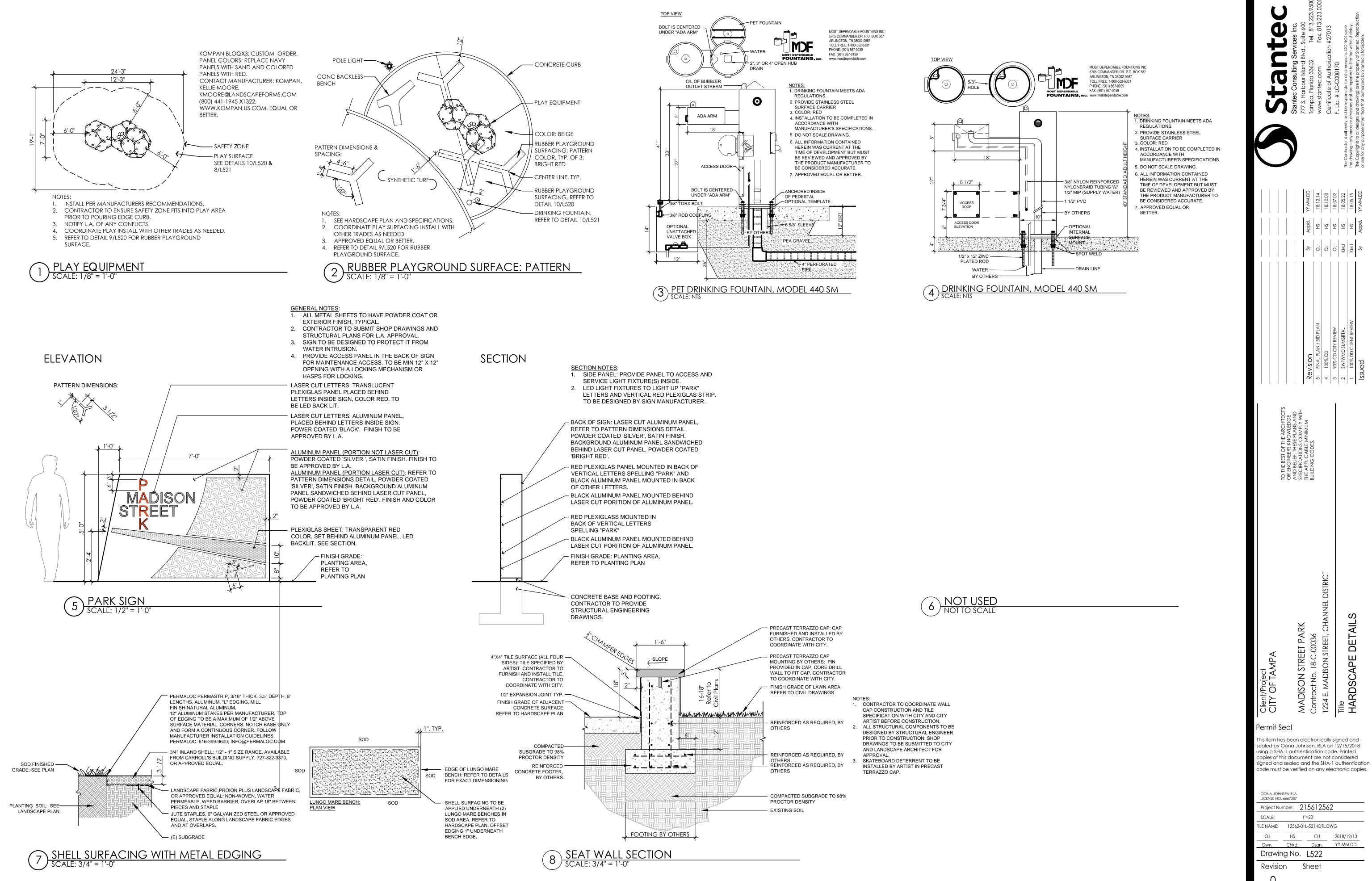
MADISON STREET PARK Contract No. 18-C-00036 1224 E. MADISON STREET, CHA

OONA JOHN LICENSE NO.						
Project Number: 215612562						
SCALE:	1	"=20"				
FILE NAME:	12562-01L-521HDTL.DWG					
OJ	HS	OJ	17.08.15			
Dwn.	Chkd.	Dsgn.	YY.MM.DD			
Drawir	ıg No.	L521				

Sheet Revision

ORIGINAL SHEET - ANSI D

Permit-Seal



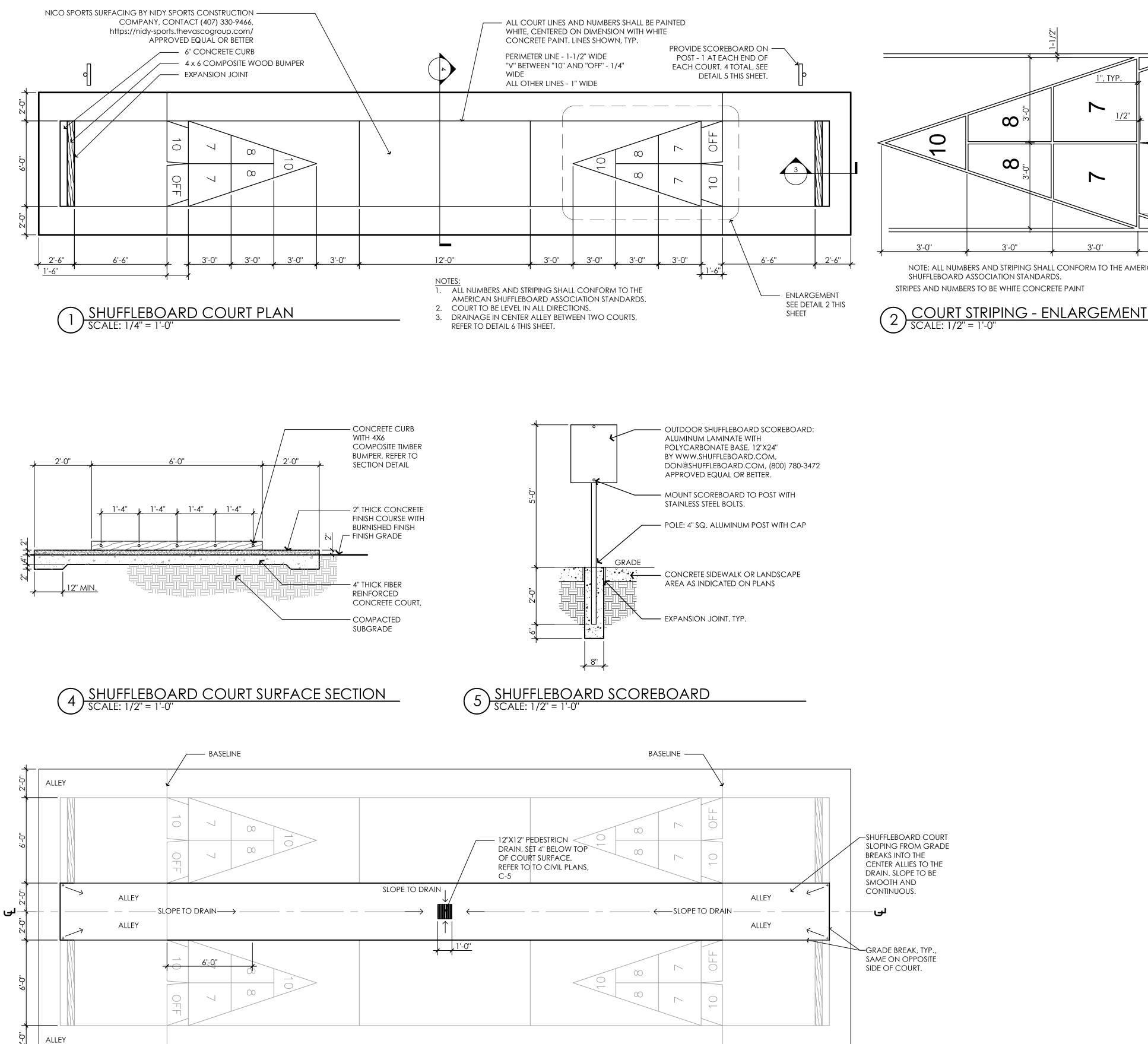
PARK

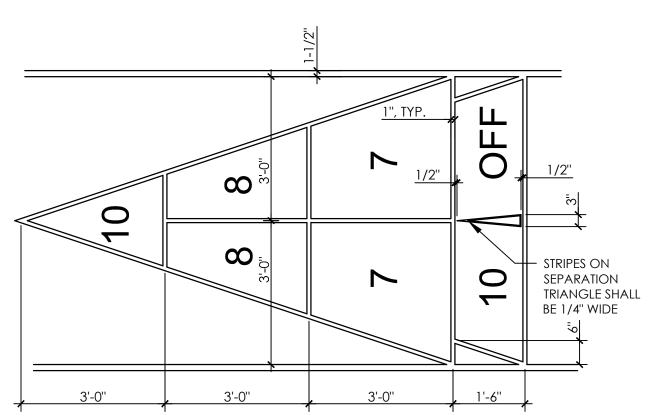
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code must be verified on any electronic copies.

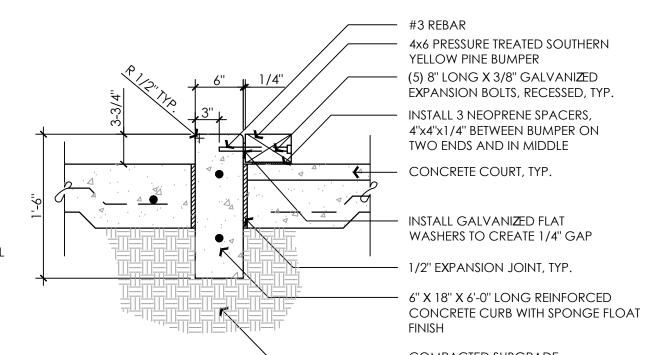
OONA JOHNSEN RLA. LICENSE NO. 6667387 Project Number: 215612562 1"=20' LE NAME: 12562-01L-521HDTL.DWG OJ 2018/12/13 HS Drawing No. L522

Revision Sheet





NOTE: ALL NUMBERS AND STRIPING SHALL CONFORM TO THE AMERICAN SHUFFLEBOARD ASSOCIATION STANDARDS. STRIPES AND NUMBERS TO BE WHITE CONCRETE PAINT



3 SHUFFLE BOARD COURT BUMPER SECTION SCALE: 1" = 1'-0"

- COMPACTED SUBGRADE

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OONA JOHNSEN RLA. LICENSE NO. 6667387

Project Number: 215612562 1"=20" ILE NAME: 12562-01L-521HDTL.DWG HS OJ 2018/12/13 Drawing No. L523

Revision Sheet

ORIGINAL SHEET - ANSI D

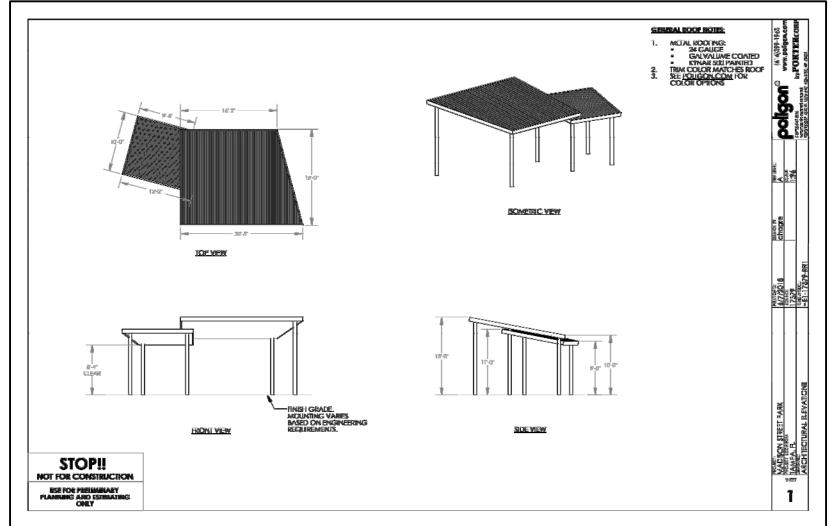
6 SCALE: 1/4" = 1'-0"

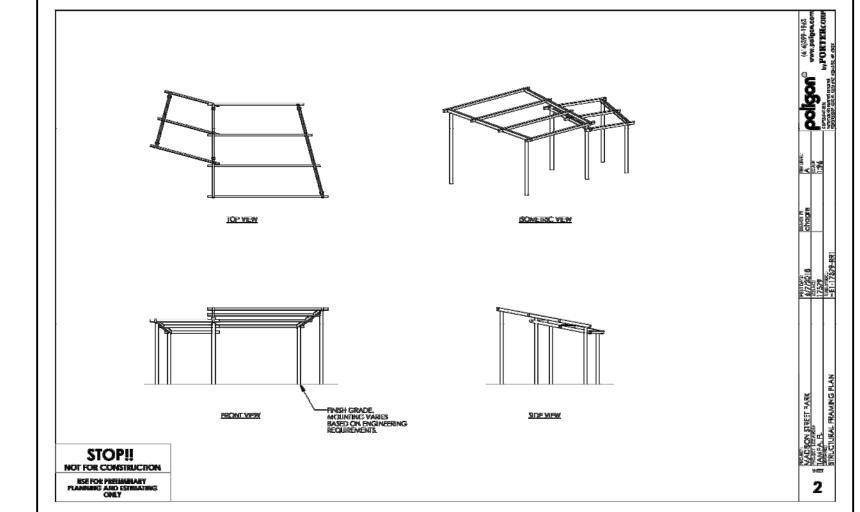
SCALE: 1/4" = 1'-0"

GENERAL SHADE STRUCTURE NOTES:

- 1. Approved equal or better. 2. Contractor to provide final shop drawings for
- approval. 3. See detail 6, this sheet for Florida product
- approval information. 4. Refer to hardscape plan, L120, for correct



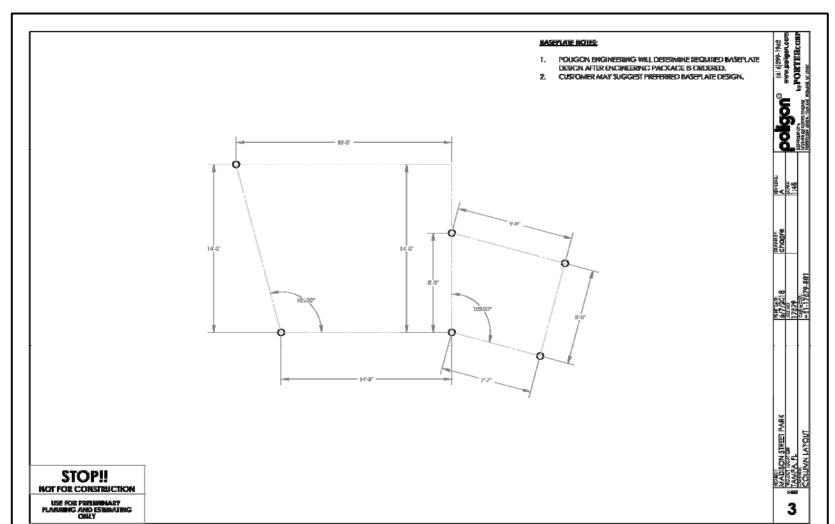




LARGE SHADE STRUCTURE - COVER NOT TO SCALE

2 LARGE - ARCHITECTURAL ELEVATIONS
NOT TO SCALE

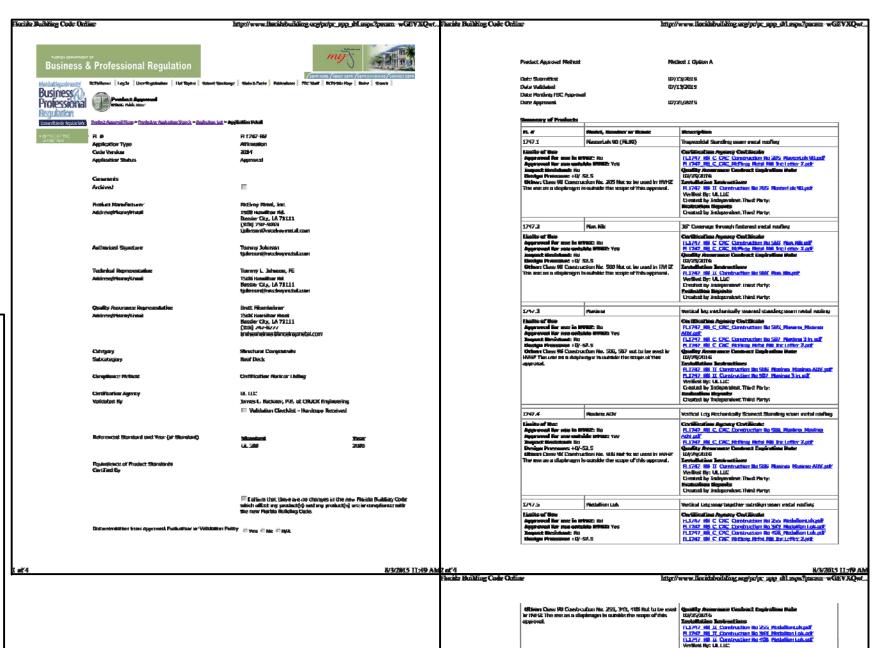
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4 LARGE - COLUMN LAYOUT NOT TO SCALE



3 LARGE - STRUCTURAL FRAMING PLAN NOT TO SCALE



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1''=20'

FILE NAME: 12562-01L-521HDTL.DWG HS OJ 2018/12/13 Drawing No. L524 Revision Sheet

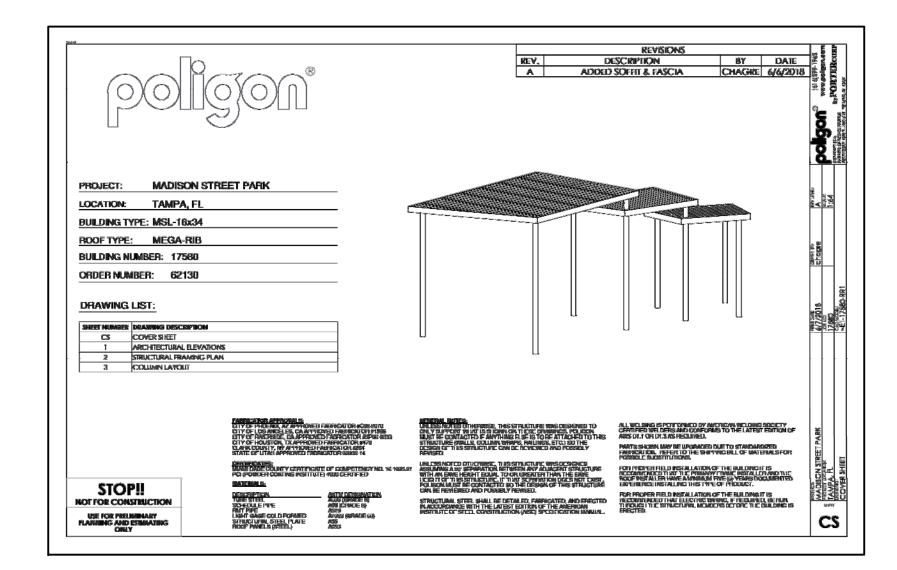
TO THE BEST OF THE ARCHITECT'S OR ENGINEERS KNOWLEDGE AND BELIEF. THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

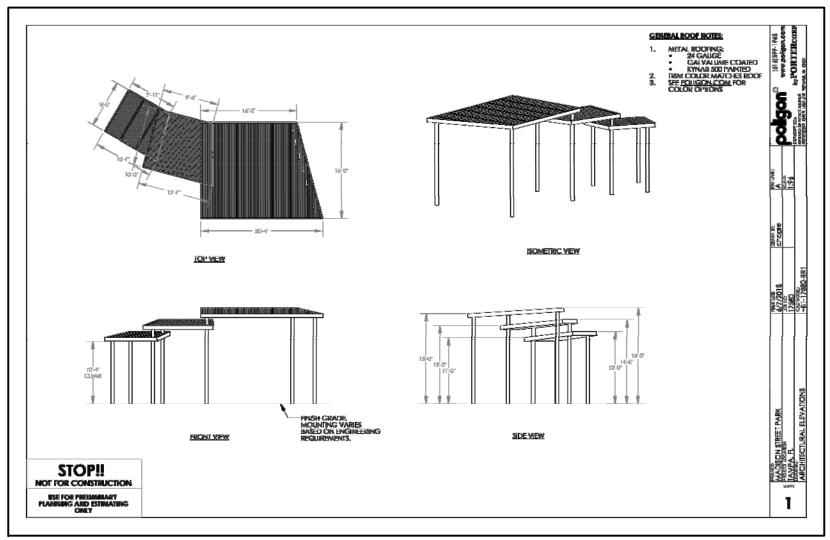
ORIGINAL SHEET - ANSI D

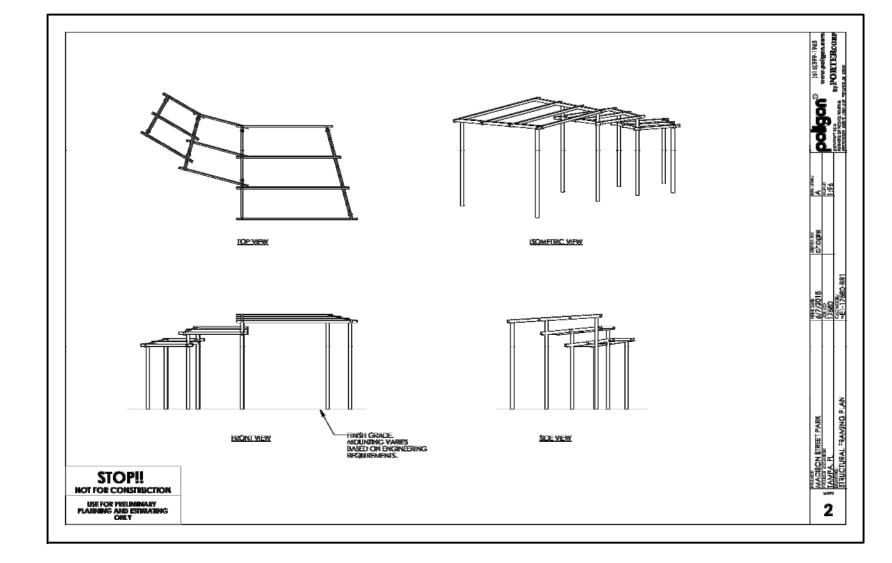
poligon MADISON STREET PARK Contract No. 18-C-00036 Permit-Seal This item has been electronically signed and sealed by Oona Johnsen, RLA on 12/17/2018 using a SHA-1 authentication code. Printed 6 FL PRODUCT APPROVAL copies of this document are not considered 5 LARGE - RENDERING
NOT TO SCALE signed and sealed and the SHA-1 authentication code must be verified on any electronic copies. oona johnsen rla. L**I**CENSE NO. 6667387 Project Number: 215612562

GENERAL SHADE STRUCTURE NOTES: 1. Approved equal or better.

- 2. Contractor to provide final shop drawings
- for approval.
- 3. Refer to hardscape plan, L120, for correct position of shade structure.



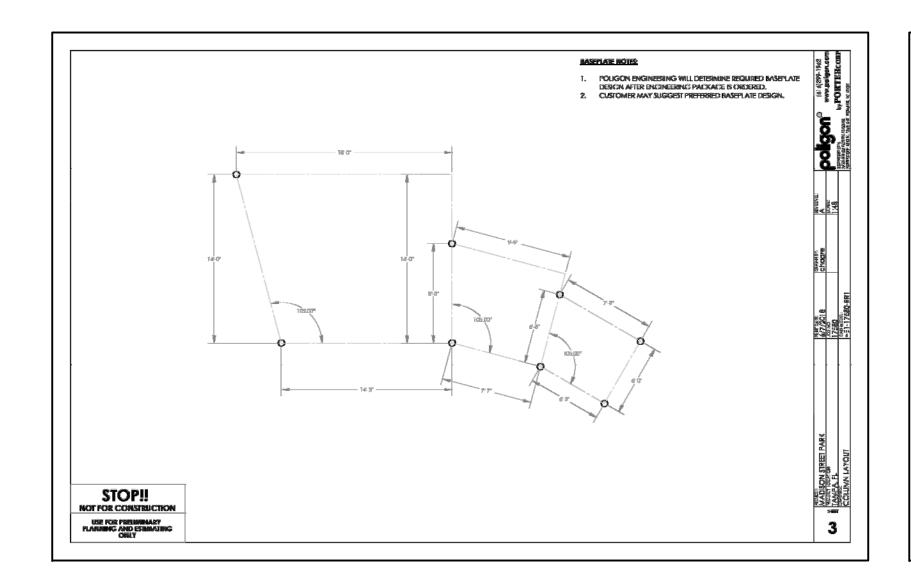




1 PERFORMANCE STRUCTURE - COVER NOT TO SCALE

2 PERFORMANCE - ARCHITECTURAL ELEVATIONS NOT TO SCALE

3 PERFORMANCE - STRUCTURAL FRAMING PLAN NOT TO SCALE





4 PERFORMANCE - COLUMN LAYOUT NOT TO SCALE

5 PERFORMANCE - RENDERING
NOT TO SCALE

MADISON STREET PARK Contract No. 18-C-00036 1224 E. MADISON STREET, CHA

Permit-Seal

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OONA JOHNSEN RLA. LICENSE NO. 6667387

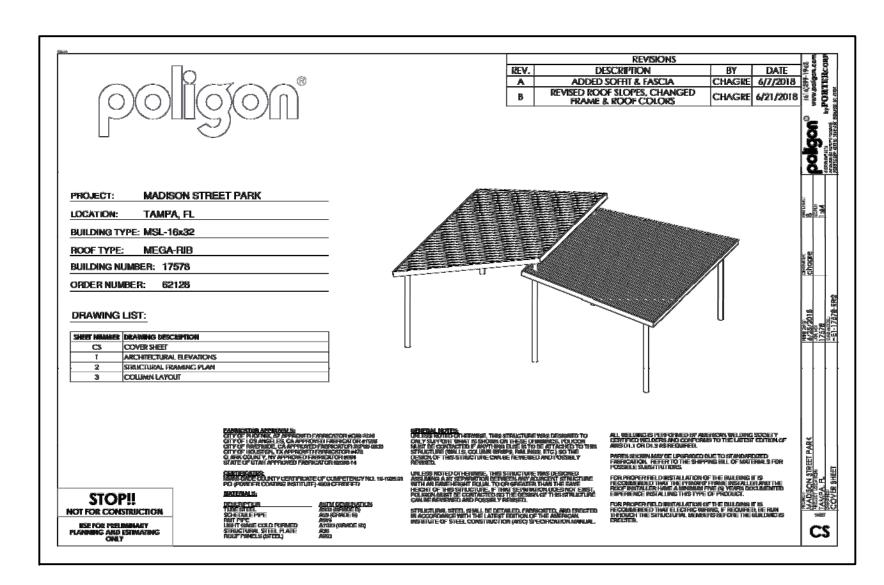
Project Number: 215612562 1"=20" FILE NAME: 12562-01L-521HDTL.DWG
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 OJ
 2018/12/13

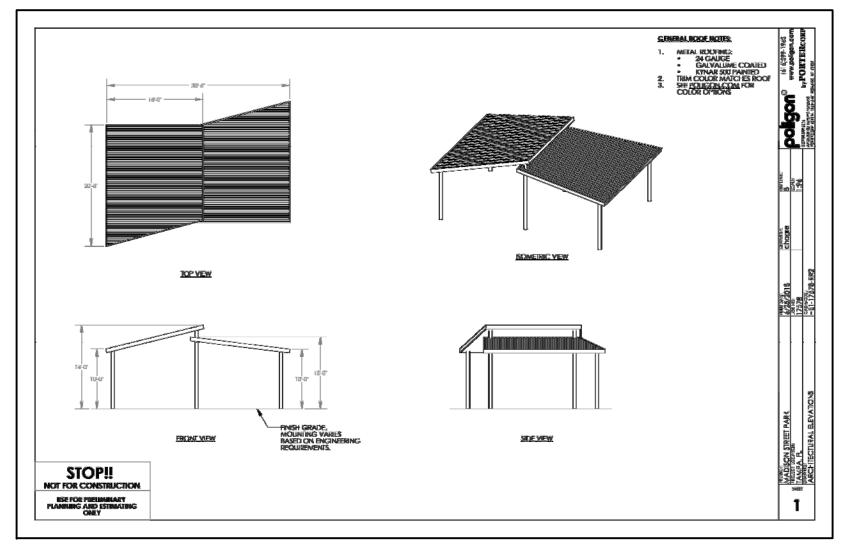
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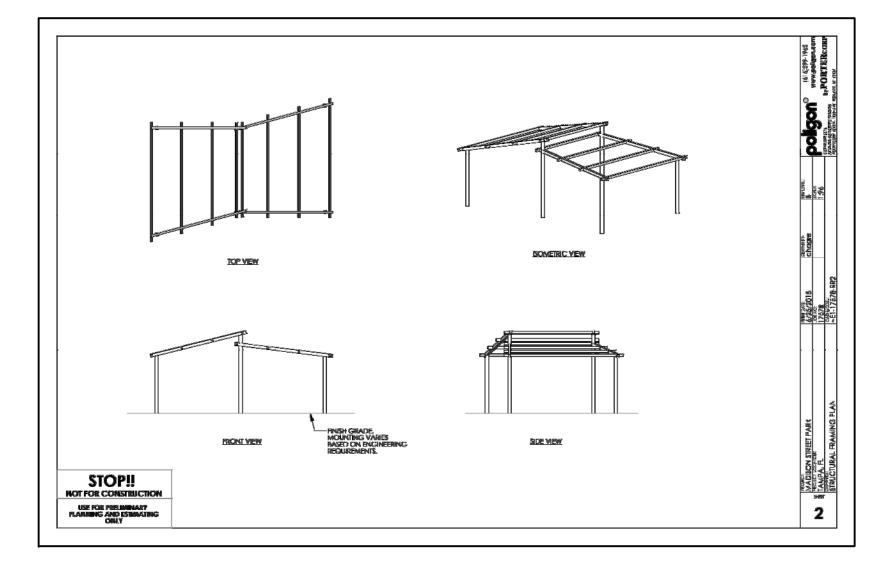
Drawing No. L525 Revision Sheet

GENERAL SHADE STRUCTURE NOTES:

- 1. Approved equal or better.
- 2. Contractor to provide final shop drawings for approval.
- 3. See detail 6, this sheet for concrete post base detail to be integrated into shade structure design and shop
- 4. Refer to hardscape plan, L120, for correct position of shade structure.



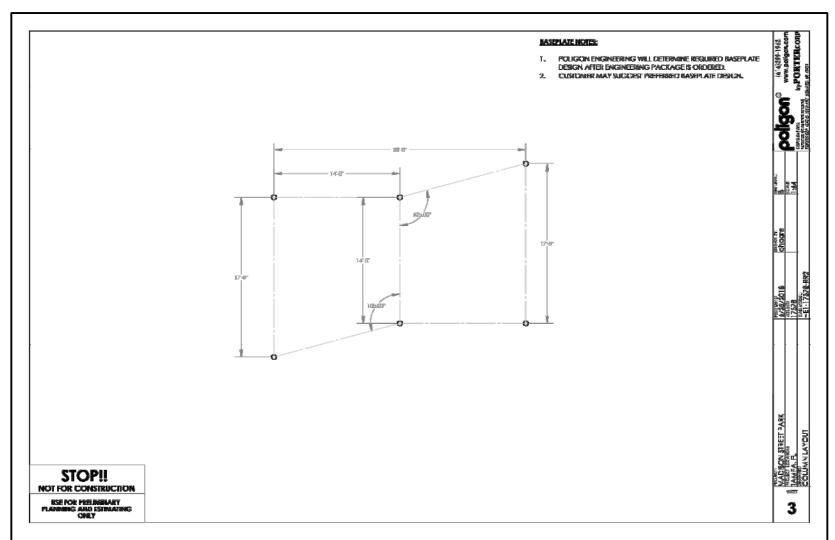




1 DOG PARK STRUCTURE - COVER NOT TO SCALE

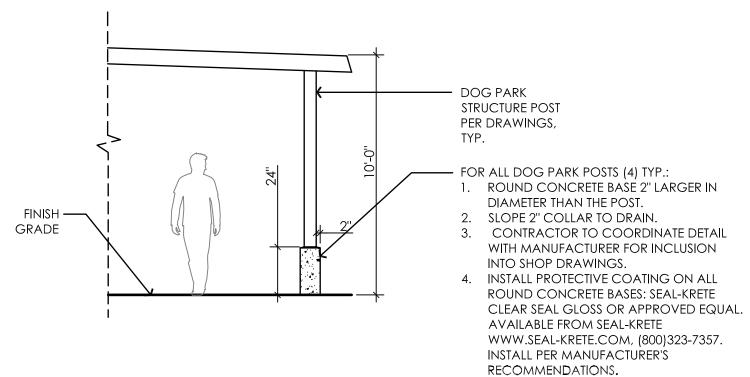
2 DOG PARK - ARCHITECTURAL ELEVATIONS
NOT TO SCALE

3 DOG PARK - STRUCTURAL FRAMING PLAN NOT TO SCALE





5 DOG PARK STRUCTURE - RENDERING
NOT TO SCALE



6 DOG PARK STRUCTURE - CONC POST BASE NOT TO SCALE

4 DOG PARK - COLUMN LAYOUT NOT TO SCALE

OONA JOHNSEN RLA. LICENSE NO. 6667387 Project Number: 215612562 1''=20' FILE NAME: 12562-01L-521HDTL.DWG HS OJ 2008/10/03

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Drawing No. L526

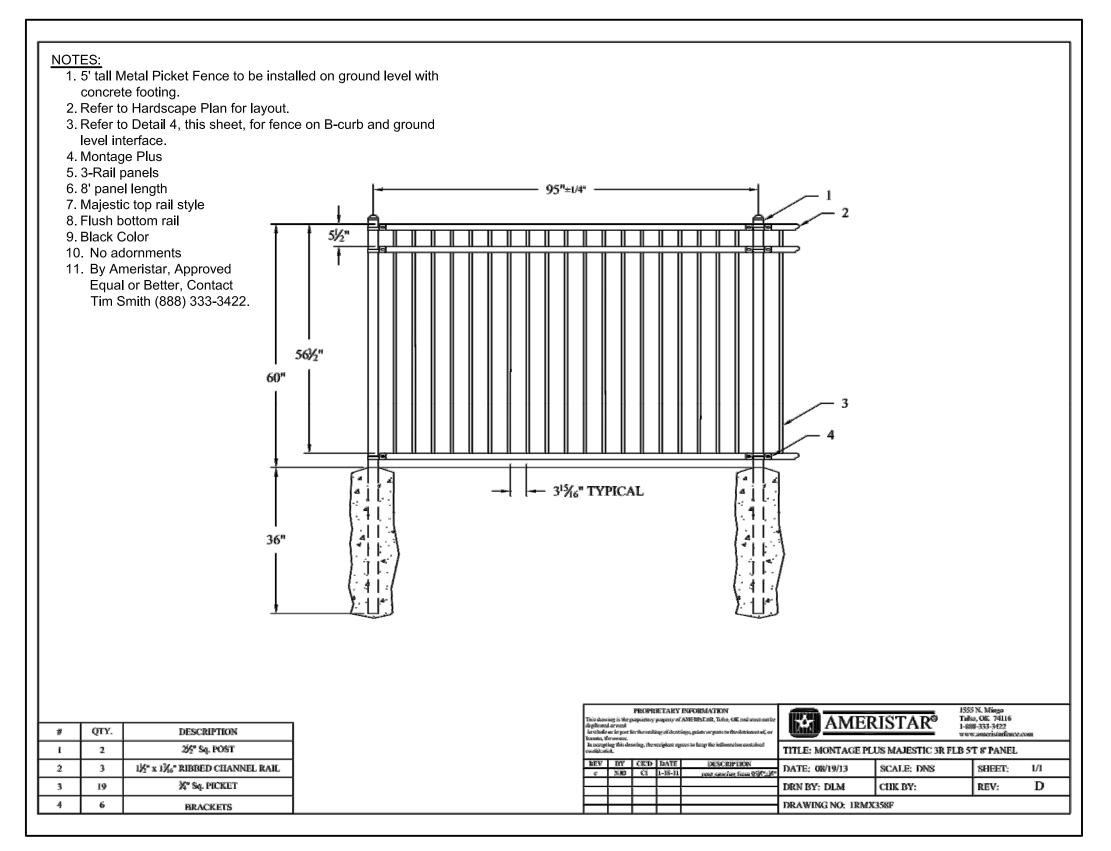
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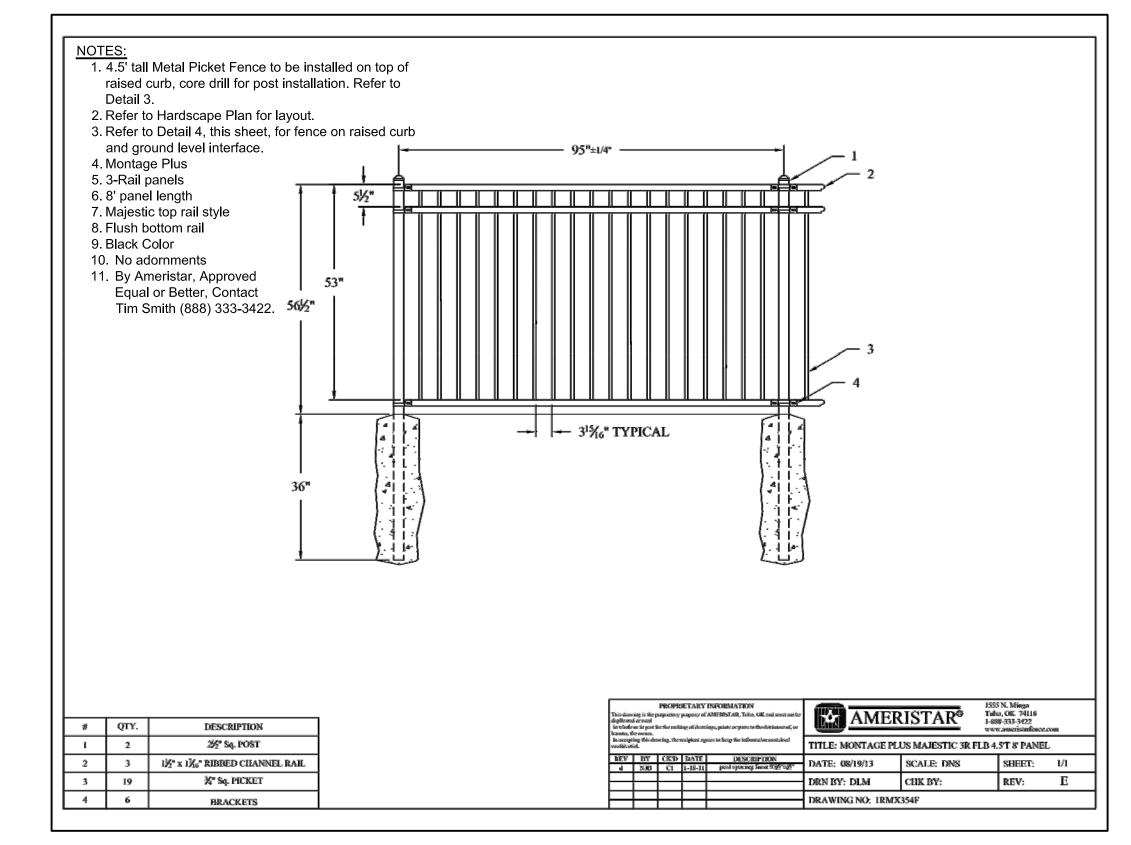
MADISON STREET PARK Contract No. 18-C-00036 1224 E. MADISON STREET, CHA

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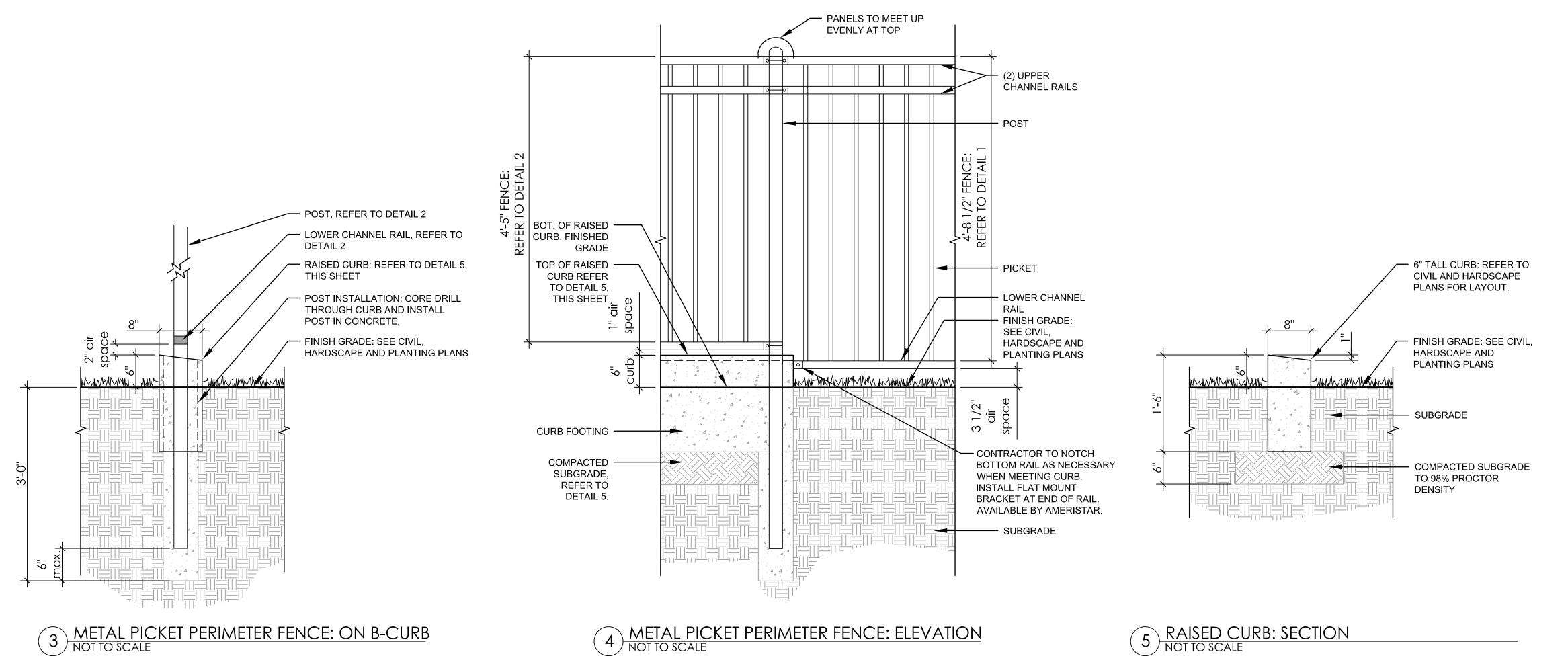
Revision Sheet





METAL PICKET PERIMETER FENCE: 5' TALL
NOT TO SCALE

2 METAL PICKET PERIMETER FENCE: 4.5' TALL NOT TO SCALE





STREET . 18-C-000

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OONA JOHNSEN RLA. L**I**CENSE NO. 6667387

Project Number: 215612562 1''=20' ILE NAME: 12562-01L-521HDTL.DWG HS OJ 2008/10/03

Drawing No. L527

Revision Sheet

LANDSCAPE NOTES

- No heavy equipment on top of subsurface stormwater chambers. General Contractor to stake out limits.
- All landscape construction shall conform to the minimum landscape requirements of the City of Tampa Landscape Code.
- Contractor to comply with all state and local code requirements.
- Prior to construction of any improvements, contractor shall obtain a landscape permit from City of Tampa. Permits are the responsibility of the contractor and are to be included as part of the base bid.
- Contractor is responsible for determining all utility locations and installing facilities so as to not conflict.
- All damage to existing utilities or improvements caused by contractor shall be repaired at no additional cost to the owner.
- Soil testing shall be performed in all planting areas (including sodded areas) prior to construction with results submitted to landscape architect. Soil amendments shall be added as necessary to meet the following parameters:

pH Range 5.5 - 6.5 Organic Matter 4 - 10%, by dry weight (humus)

60 - 70% Calcium

Magnesium 10 - 20% Potassium 3 - 5%

Phosphorus Equal to Potassium

Soluble Salts/ Conductivity Less than 2 mmho/cm

After amendments have been added, resubmit results to the landscape architect for approval.

- All planting beds shall be excavated a minimum of 6" and backfilled with planting mix. Reference planting details.
- Contractor shall grade all landscape areas, eliminating all surface irregularities, depressions, vegetative matter, sticks, stones, and other debris, and remove them from site.
- 10. Furnish to the owner a unit price breakdown for all materials. The owner may, at there discretion, add or delete from the materials utilizing the unit price breakdown submitted.
- 11. All new plant material shall be guaranteed for 1 year, from time of final acceptance of project, any plant material not in a healthy growing condition will be replaced by the contractor, at no additional cost to the owner within 10 days of notification. Extend warranty period an additional 6 months beyond the original warranty period, for all replacement plant material. Warranty is null and void for plant material which is damaged or dies as a result of "Acts of God" limited to hail, freeze, lightning, automobile damage, and winds exceeding 75 mph as defined by the National Weather Service. All trees that lean or are blown over, caused by winds less than 75 mph, will be re-set and braced by the contractor at no additional cost to the owner.
- 12. All plants shall meet FL#1 Standard per 2015 Nursery Standards, or latest edition.
- 13. All trees, shrubs and ground covers shall be of the sizes as called for in the Plant Schedule. Where there is a discrepancy either in
- quantities, plant names, sizes or specifications between the plan and Plant Schedule, the plan takes precedence. 14. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.
- 15. Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.
- 16. New plant material to be installed will be field adjusted to accommodate existing plant material such as overhead canopy trees, under-story trees and shrubs or ground cover. This will insure existing plant material to remain in its natural state. Therefore, no existing plant material will be altered by removing, cutting, trimming or destroying in order to install new plant material.
- 17. All planting holes to be hand dug except where machine dug holes will not adversely effect or damage utilities or improvements.
- 18. Planting soil to be a weed free mixture of 50% coarse native sand and 50% peat, pH between 5.5 and 6.5. All plant material to receive planting soil as per details.
- 19. Structural soil shall be installed per details. Structural soil to be the Tampa Mix: This soil aggregate is composed of 45% -3/4" aggregate, 35% builder's sand and 20% organic topsoil.
- 20. Use 21 gram Agriform 20-10-5 planting fertilizer tablets per manufacturer's specifications for all plant material.
- 21. Contractor shall stake & guy all trees and palms per City specifications and per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period.
- 22. Root-prune all non-container grown trees a minimum of (8) weeks prior to planting. See detail. Note size of planting pits on planting details. 23. All protected trees, if any, shall be trimmed in a manner consistent with the "American National Standard for Tree Care Operations, ANSI,
- A300, current edition". 24. Protective barricades shall remain in place until land alteration and construction activities are completed.
- 25. During land alteration and construction activities, it shall be unlawful to remove vegetation by grubbing or to place soil deposits, debris, solvents, construction material, machinery or other equipment of any kind within the drip line of a tree to remain on the site unless otherwise
- 26. All waste, objectionable material, and excess fill shall be removed and disposed of on a daily basis off-site in a legal manner.
- 27. Any areas subject to erosion must be adequately stabilized with vegetation material that will, within a reasonable time frame, deter soil
- Coordinate the removal of erosion control fencing with site contractor while performing final planting.
- Sodding, plugging sprigging or seeding is acceptable for stabilization; however, sodding may be required in areas of erosion-prone soils or where slopes are greater than 5:1. Vegetation other than grass is acceptable unless otherwise specified.

CITY OF TAMPA LANDSCAPE AND TREE PLANTING STANDARDS

- 1. Recommended trees shall be used to meet the requirements of Chapter 27, Section 285 and, as specified in the technical standards, be at least two (2) inches in diameter when measured at six (6) inches above grade and shall be selected from the recommended tree list set forth in Schedule C. At least fifty (50) percent of the recommended trees planted on a parcel shall be shade trees. At least sixty (60) percent of the recommended trees planted on a parcel shall be native trees. Palm trees shall be replaced one (1) for one (1) with a recommended tree.
- 2. An existing or relocated protected tree which meets the standards of this section shall be credited toward the planting requirements contained in section 127-285.1 for recommended trees on a parcel, in accordance with the tree equivalency table set forth in Schedule E located in section 13-165.
- 3. Any person may request and the department may approve a tree as a replacement tree that is not included on the recommended tree list if the tree is similar in character and function to a tree on the recommended tree list.
- 4. A pervious area with an effective minimum radius of six (6) feet from the trunk of a recommended tree shall be maintained around all 5. Paving base may extend to within six (6) feet from the trunk of a protected tree, provided an effective pervious area radius of ten (10)
- feet is created through the use of turf block, pavement aeration devices or similar products. 6. Structural foundations may be located at a radius of six (6) feet from the trunk of a protected tree, provided an effective pervious area
- radius is extended proportionally in three (3) other directions to allow six hundred (600) square feet of pervious area. 7. All recommended trees and plant material shall be planted in accordance with the specifications described in the State Department of Agriculture and Consumer Services, Division of Forestry, Tree Protection Manual for Builders and Developers, October 1980, as
- revised from time to time. All recommended trees and plant material used shall be vigorous, well shaped, branched and foliated and shall be graded State Department of Agriculture Nursery Grade No. 1 or better as outlined by the state division of Plant Industry Grades and Standards for Nursery Plants, third Edition, 1973, as revised from time to time, and Grades and Standards for Nursery Plants, Part II, Palms and Trees, fourth printing, 1998, as revised from time to time.
- 9. Landscape areas shall consist of at least sixty (60) percent native plant material and/or plant material adapted to local climatic. Recommended trees, protected trees and plant material shall be planted in such a way as to conserve, preserve and enhance land uses, natural land features, and natural and aesthetic values. Nonliving natural material which permits percolation may also be used as necessary material in landscaping.
- 10. A layer of mulch to a minimum depth of three (3) inches shall be specified on the site plan in plant beds and around individual trees in turf areas. Organic mulches are preferred. The mulch should not be placed directly against the plant stem or tree trunk. Mulch shall not be required in annual beds.
- 11. Areas on the parcel which are used for stormwater retention or detention ponds with depressions of less than two (2) feet and the landscape banks of such ponds from the mean high waterline to the top of the bank shall be credited on a one-to-one area basis toward meeting the landscaped area.
- 12. If a hedge or other screen is used, it must be at least two (2) feet in height at time of planting.
- 13. Turf and grass sod shall be clean and free of weeds, pests, and disease. Grass seed shall be delivered to the job site in bags with the state department of agriculture tags attached.
- 14. All landscape areas must allow for access to public and private utility facilities for maintenance purposes.
- 15. A list of acceptable trees for tree planting within ten (10) feet of the vertical plane of existing powerlines, excluding service wires, as set forth in Section 27-285.1 Schedule D.

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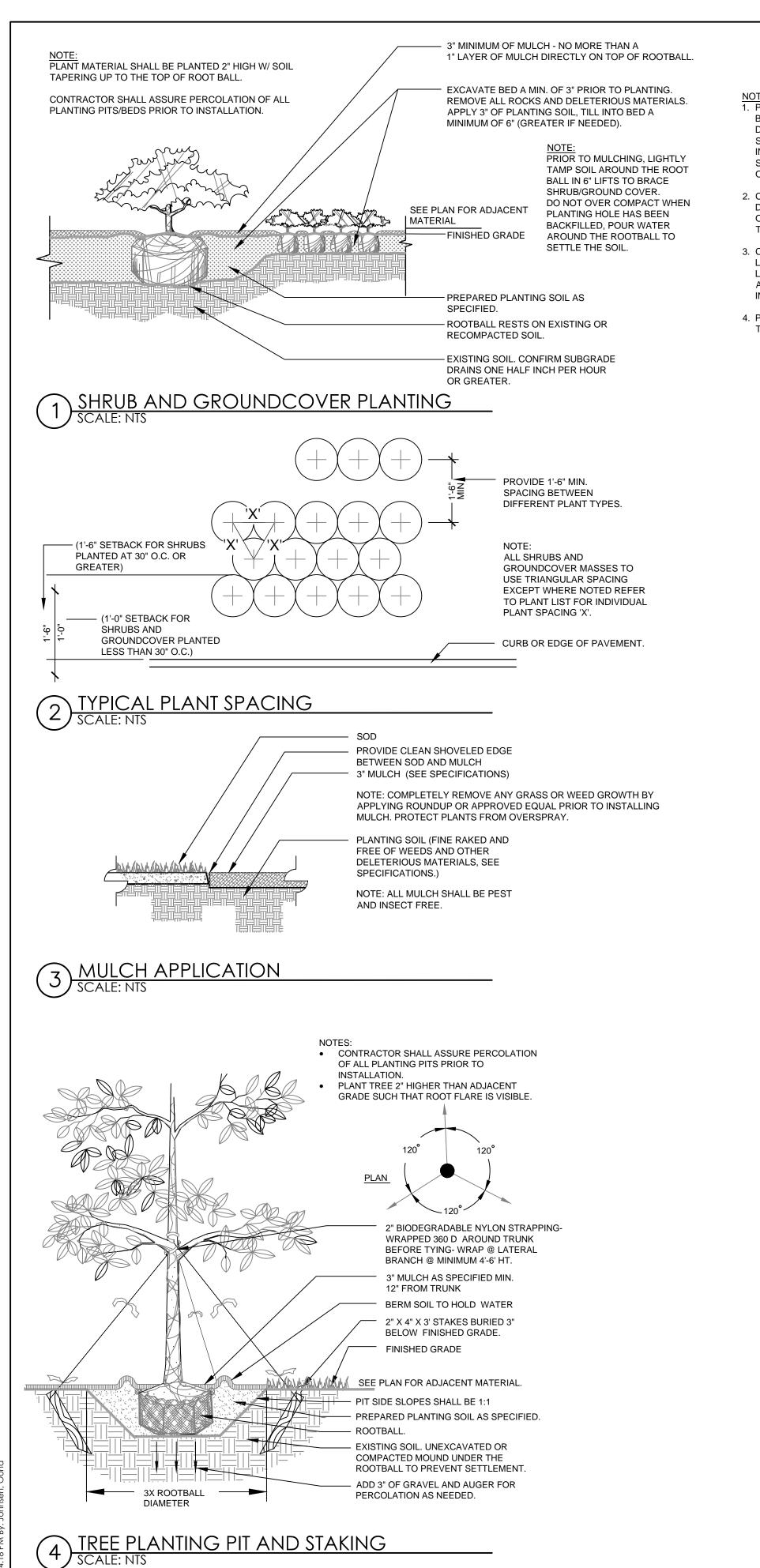
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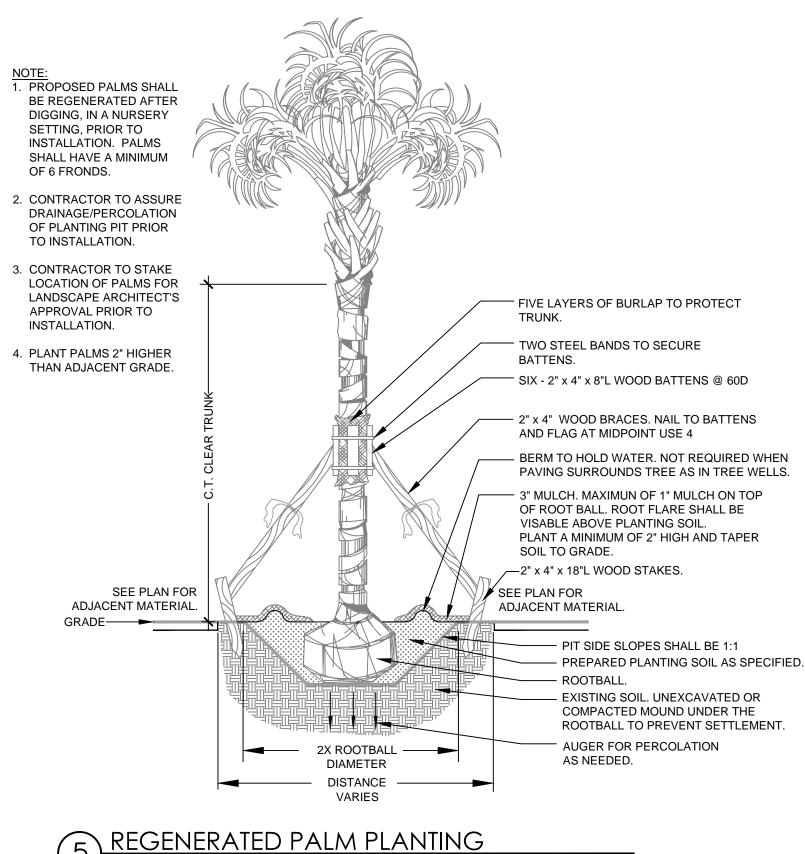
OONA JOHNSEN RLA. LICENSE NO. 6667387

Project Number: 215612562 SCALE: 1"=20' FILE NAME: 12562-01L-530LDTL.DWG

KJ 2018/11/26 Drawing No. L530

Revision Sheet





→ 3 x D-MAN CELL - 3 x PLATI-MAT ROOTBALL PROTECTION MESH PLATIPUS TREE ANCHOR SYSTEMS WWW.PLATIPUS-ANCHORS.US PHONE: 866-622-2283 RF1PDMAN SYSTEM - PLATI-MAT 3 x 4MM DIA. WIRE CHOKES 1 x TWO WAY RATCHET TENSIONER WITH 10' OF 3MM GALV. WIRE 3 x PLATI-MAT ROOTBALL PROTECTION MESH 3 x D-MAN CELLS INSTALL PER MANUFACTURER SPECIFICATIONS 2" MULCH AS SPECIFIED MIN. 24" FROM TRUNK - PROVIDE 1" DEPTH OVER ROOTBALL. BERM SOIL TO HOLD WATER FINISHED GRADE SEE PLAN FOR ADJACENT MATERIAL. - PIT SIDE SLOPES SHALL BE 1:1 PREPARED PLANTING SOIL AS SPECIFIED. ROOTBALL. EXISTING SOIL. EXCAVATED TO SET DEADMEN AND RE-COMPACTED TO CREATE MOUND UNDER THE ROOTBALL TO PREVENT SETTLEMENT. ADD 3" OF GRAVEL AND AUGER FOR 3X ROOTBALL PERCOLATION AS NEEDED. DIAMETER

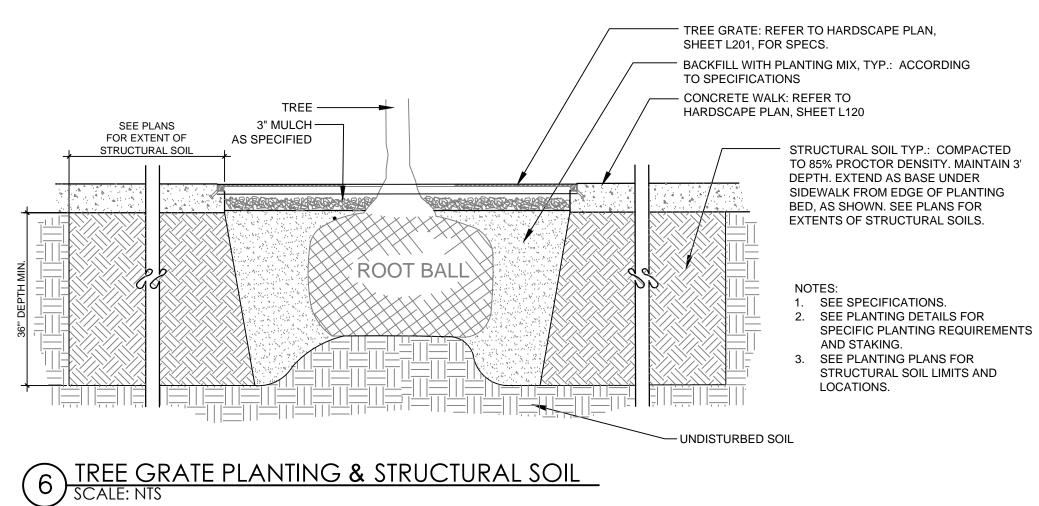
TREES TO BE PLANTED IN PLANTER.

PLANT 4" BELOW TOP EDGE OF PLANTER.

DUE TO SETTLEMENT ALL TREES SHOULD

BE RE-TENSIONED AFTER PLANTING.

7 TREE PLANTING & ANCHORING - FOR TREE GRATES



Permit-Seal

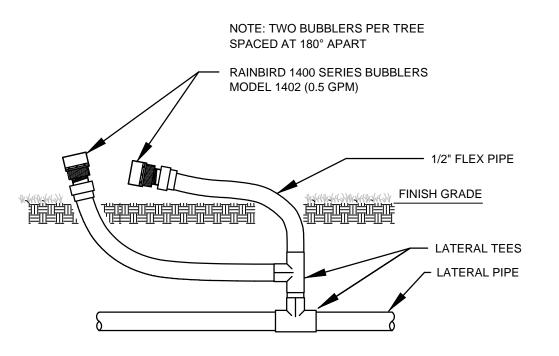
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OONA JOHNSEN RLA. LICENSE NO. 6667387 Project Number: 215612562

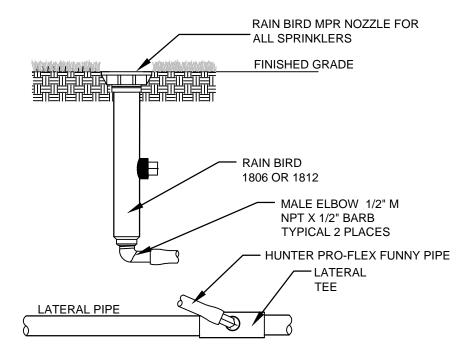
SCALE: 1"=20' FILE NAME: 12562-01L-530LDTL.DWG HS KJ 2018/11/26

Drawing No. L531

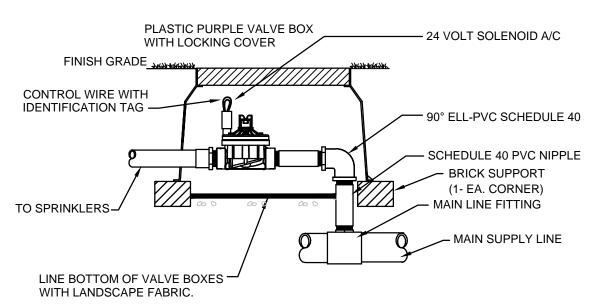
Revision Sheet



RAINBIRD 1400 SERIES BUBBLER

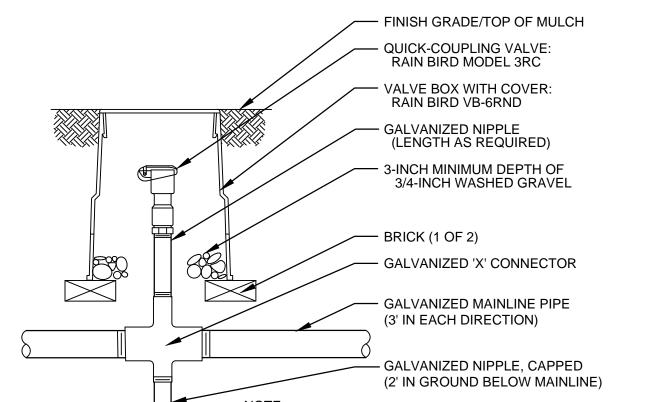


RAIN BIRD POP UP SPRAY HEAD



IRRITROL 200B SERIES CONTROL VALVE SCALE: NTS

AC CONNECTION



QUICK COUPLER VALVE - RAIN BIRD MODEL 3RC 4 SCALE: NTS

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO

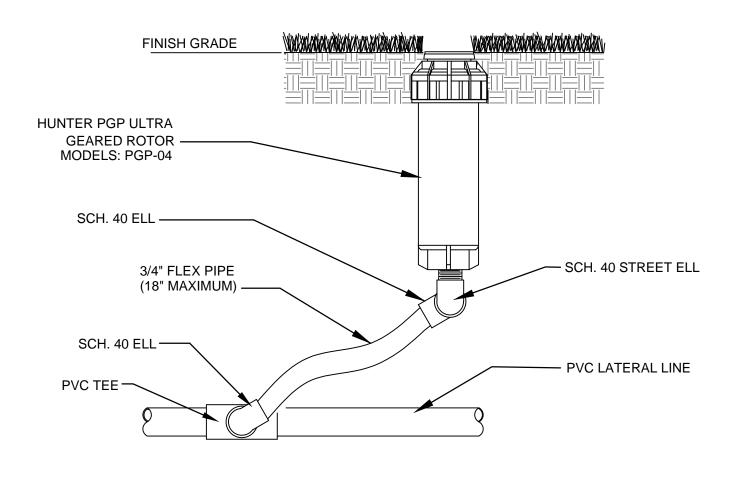
NOMINAL QUICK COUPLING VALVE INLET SIZE.

CITY OF TAMPA IRRIGATION STANDARDS

- No heavy equipment on subsurface stormwater chambers. General Contractor to skate out limits.
- 2. All irrigation installation shall conform to City of Tampa Parks & Recreation Technical Specifications, Section 32 84 23.
- 3. Place irrigation heads and lines to accommodate existing job conditions and to provide head to head coverage
- 4. All main line piping shall be schedule 40 pvc and be buried to have a minimum cover of 18". All lateral piping downstream of the main line shall buried to have a minimum cover of 12".
- 5. Contractor shall install automatic drain valves at low points in the irrigation lines as required.
 6. All valve boxes shall be black or green in color (body and lid). Sizes shall be ten (10") inches by fourteen (14") inches (rectangular) for remote control valves and nine (9") inches (round)
- 7. Turf areas shall be on a separate irrigation zone than other landscape zones and are not approved for micro-irrigation application.

for gate and quick coupler valves. Place min. 2" of pea gravel in base of valve box.

- 8. Sprays and rotors shall not be combined on the same control valve circuit and shall have matching application rates within each irrigation zone.
- 9. All irrigation systems shall be designed to avoid over spray, runoff, low head drainage, or other similar conditions where water flows onto or over adjacent property, non-irrigated areas, walkways, roadways, structures, or water features. Emitters and sprinkler heads are encouraged to be located at least two (2) feet from buildings and water should not hit the building while operating.
- 10. Water source shall be existing 1" city water meter.
- 11. Irrigation valves shall be connected to existing MIR controller.
- 12. Irrigation contractor to verify location of all utilities prior to digging and is responsible for any damage caused by his/her negligence.
- 13. Submit shop drawings to landscape architect for approval prior to construction.
- 14. Drawings shall show heads, low volume irrigation, piping, zoning, pipe sizes, valves, gallons per zone, zone numbers, controller, etc. For approval by owner prior to installation.
- 15. The irrigation system shall be designed to "Standards and Specifications for Turf and Landscape Irrigation Systems," Fifth Edition, 2005, Florida Irrigation Society", as may subsequently be revised.
- 16. Provide "As Built" plans per City of Tampa specifications before final acceptance.



HUNTER ROTOR

SCALE: NTS

TEANTE PERC.

S. Harbour Island Blvd., Suite 600

Tel. 813 223 9500



 SVÍSÍON
 By
 Appd.
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 FINAL PLAN / BID PLAN
 OJ
 HS
 18.12.14

 100% CD
 HS
 18.10.08

 90% CD CITY REVIEW
 OJ
 HS
 18.07.02

 SWFWMD SUMBITTAL
 KMJ
 HS
 18.05.15

 100% DD CLIENT REVIEW
 KMJ
 HS
 18.05.15

TO THE BEST OF THE ARCHITECT'S OR ENGINEERS KNOWLEDGE AND BELIEF.
THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMILM BILLI DING. CODES.

EET, CHANNEL DISTRICT

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Permit-Seal

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OONA JOHNSEN RLA. LICENSE NO. 6667387

Project Number: 215612562

SCALE: 1"=20'

FILE NAME: 12562-01L-540IDTL.DWG

KJ HS KJ 2018/08/28

Drawing No. L540

Revision Sheet

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