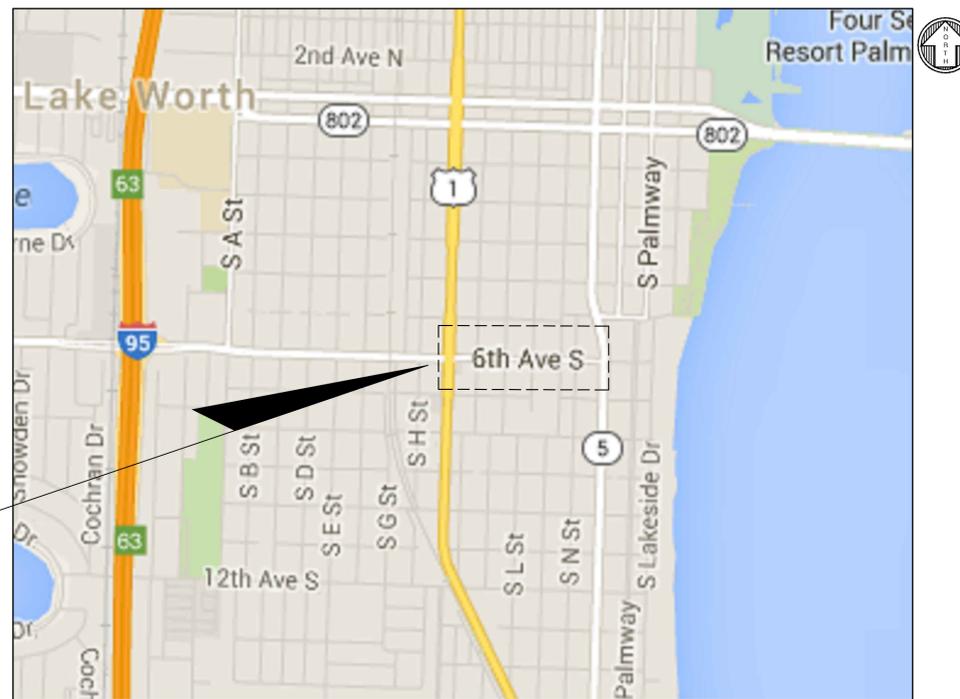


6TH AVENUE SOUTH ROADWAY AND STREETScape IMPROVEMENTS BETWEEN S. DIXIE HIGHWAY AND S. FEDERAL HIGHWAY

100% SUBMITTAL CITY OF LAKE WORTH PALM BEACH COUNTY, FLORIDA



PROJECT LOCATION

| DWG NO: | DRAWING TITLE |
|----------------|----------------------------------|
| C-1 | COVER SHEET |
| C-2 | GENERAL NOTES AND SPECIFICATIONS |
| C-3 & C-4 | PAVING & GRADING PLAN |
| C-5 & C-6 | PAVEMENT MARKING & SIGNAGE PLAN |
| C-7, C-8 & C-9 | PAVING AND GRADING DETAILS |
| C-10 | TYPICAL SECTIONS |

| REV. # | DESCRIPTION | DATE |
|--------|-------------|------|
| 1 | COVER SHEET | |

LOCATION MAP

SECTION 27/28, TOWNSHIP 44, RANGE 43

PREPARED FOR
CITY OF LAKE WORTH

CITY COMMISSION

PAM TRIOLO, MAYOR
SCOTT MAXWELL, VICE MAYOR
CHRISTOPHER McVOY
ANDY AMOROSO
RYAN MAIER

Matthew J. Cigale
Florida P.E. No. 74584

 **CrAVEN • THOMPSON AND ASSOCIATES, INC.**
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

R:\Engineering\2015\15-0006-001-Lake Worth Continuing Services\003-6th Avenue Roadway & Streetscape- TO#4\Drawings\15-0006-001-03-CN.dwg [C-2] Sep 14, 2015 3:10pm KMENTING

I. APPLICABLE CODES

- A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF CITY OF LAKE WORTH ENGINEERING & UTILITY DEPARTMENT & ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE.
- B. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- C. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D.).
- D. WITHIN THE CITY OF LAKE WORTH JURISDICTIONAL RIGHT-OF-WAY, ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT & ENGINEERING & UTILITY DEPARTMENT "MINIMUM STANDARDS" REQUIREMENTS.
- E. TRENCH SAFETY ACT
 - 1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT).
 - 2. ALL TRENCH EXCAVATION IN EXCESS OF 5 FEET IN DEPTH SHALL BE UNDERTAKEN IN ACCORDANCE WITH O.S.H.A. STANDARD 29 CFR. SECTION 1926.650 SUBPART P.
 - 3. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE CONTRACTOR.
- F. ASBESTOS CEMENT PIPE (ACP), AND TRANSITE PIPE, CONTAIN ASBESTOS MATERIAL. ALL ASBESTOS CONTAINING MATERIALS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. THIS INCLUDES THE CUTTING, PLUGGING AND DISPOSAL OF EXISTING ACP OR TRANSITE WATER MAIN PIPES.
- G. ALL HANDICAP ACCESSIBLE AREAS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, LATEST EDITION.
- H. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE REQUIREMENTS OF ANY JURISDICTIONAL AUTHORITIES, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

II. PRECONSTRUCTION RESPONSIBILITIES

- A. FOR WORK WITHIN CITY OF LAKE WORTH JURISDICTIONAL RIGHT-OF-WAY, PLAN APPROVAL, CITY COMMISSION APPROVAL AND PERMIT ISSUANCE ARE REQUIRED PRIOR TO SCHEDULING PRE-CONSTRUCTION CONFERENCE.
- B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS AND THE ENGINEER OF RECORD.
- C. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL CERTIFICATION NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION, CALL 811.
- D. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING FACILITIES SHOWN OR FOR ANY EXISTING FACILITY NOT SHOWN. THE CONTRACTOR SHALL VERIFY THROUGH VACUUM EXCAVATION & TEST HOLE METHODS, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE ISSUE.
- E. THE CONTRACTOR SHALL COORDINATE W/ OTHER UTILITY OWNERS TO LOCATE, IDENTIFY OR RELOCATE EXISTING UTILITIES AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK. IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- F. FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS TO PUBLIC OR PRIVATE PROPERTY, INFORM:
 - 1. LOCAL POLICE TRAFFIC SERGEANT
 - 2. LOCAL FIRE DEPARTMENT DISPATCH
 - 3. LAKE WORTH PUBLIC SERVICES DEPARTMENT
- G. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL CONTACT THE CITY OF LAKE WORTH ELECTRIC UTILITY DEPARTMENT TO VERIFY LOCATIONS, VOLTAGE AND REQUIRED CLEARANCES ON-SITE, IN RIGHT-OF-WAYS AND IN EASEMENTS, PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF EXISTING LINES.
- H. ALL UTILITY / ACCESS EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION.
- I. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE, AND FEDERAL AGENCIES.
- J. ALL REQUIRED GOVERNMENTAL AGENCY BUILDING AND RIGHT OF WAY PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.
- K. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE CITY OF LAKE WORTH WATER UTILITY DEPARTMENT.
- L. NO CONNECTIONS TO EXISTING LINES SHALL BE MADE UNTIL APPLICABLE TESTS HAVE BEEN PERFORMED AND PASSED AND THE SYSTEM IS APPROVED BY APPLICABLE REGULATORY AGENCIES, INCLUDING THE PALM BEACH COUNTY HEALTH DEPARTMENT.

III. INSPECTIONS

- A. THE CONTRACTOR SHALL NOTIFY THE CITY OF LAKE WORTH PUBLIC SERVICES & UTILITY DEPARTMENT, THE ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND 24 HOUR ADVANCED NOTIFICATION PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:
 - 1. CLEARING AND FILLING
 - 2. SUBGRADE
 - 3. LIMEROCK BASE
 - 4. ASPHALTIC CONCRETE
 - 5. SIDEWALK
 - 6. LANDSCAPING
 - 7. FINAL

IV. SHOP DRAWINGS

- A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING: LIFT/ PUMP STATION EQUIPMENT, SANITARY MAINTENANCE ACCESS STRUCTURES, CATCH BASINS, FIRE HYDRANTS, VALVES, PIPE MATERIAL AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES

- A. GENERAL:
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- B. TRAFFIC REGULATION:
 - 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). CONTRACTOR IS RESPONSIBLE TO PREPARE AND PROCESS A MAINTENANCE OF TRAFFIC PLAN AND OBTAIN APPROVAL FROM CITY OF LAKE WORTH PUBLIC SERVICES & UTILITY DEPARTMENT AND PALM BEACH COUNTY TRAFFIC ENGINEERING AND FDOT WHERE APPLICABLE PRIOR TO THE START OF CONSTRUCTION.
 - 2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
 - 3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS, UNLESS IN ACCORDANCE WITH METHODS APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH PUBLIC SERVICES & UTILITY DEPARTMENT.
 - 4. THE SAFE WALK ROUTE FOR ALL SCHOOLS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING THE ARRIVAL AND DISMISSAL OF SCHOOL.
 - 5. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE.
 - 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. ANY DEVICE DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTORS EXPENSE. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED IN ACCORDANCE WITH CITY OF LAKE WORTH PUBLIC SERVICES & UTILITY DEPARTMENT STANDARDS.

VI. PAVING

- A. GENERAL:
 - 1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED AND TESTED PRIOR TO FINISHED GRADING AND COMPACTION OF SUBGRADE.
 - 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 - 3. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE CLEANLY SAW CUT TO ENSURE A PROPER JOINT.
- B. MATERIALS:
 - 1. LIMEROCK BASE MATERIAL SHALL BE CRUSHED LIMEROCK MIAMI OOLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS, DRIVEWAYS AND PARKING AREAS).
 - 2. ASPHALT SURFACES FOR ROADWAYS SHALL CONFORM WITH THE FOLLOWING:
 - LOCAL: 1 1/2" TYPE S-III ASPHALT (TWO 3/4" LIFTS) BOTTOM COURSE: 3/4" LIFT OF TYPE S-III ASPHALTIC CONCRETE PAVEMENT FOLLOWED BY 3/4" LIFT OF TYPE S-III ASPHALTIC CONCRETE PAVEMENT. TACK COAT PER FDOT SECTION 300 BETWEEN LIFTS. NEW MATERIAL ONLY. NO RECYCLED ASPHALT (WEARING COURSE)
 - COLLECTOR: 2" TYPE S ASPHALT. BOTTOM COURSE 1 1/4" LIFT OF FDOT TYPE S-1 ASPHALTIC CONCRETE PAVEMENT FOLLOWED BY 3/4" THICKNESS OF FDOT TYPE S-III ASPHALTIC CONCRETE PAVEMENT. TACK COAT PER FDOT SECTION 300 BETWEEN LIFTS. NEW MATERIAL ONLY. NO RECYCLED ASPHALT (WEARING COURSE)
 - 3. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3000 PSI EXCEPT WHERE OTHERWISE SHOWN ON THE PLANS.
 - 4. SIDEWALK CONSTRUCTION SHALL BE CLASS I CONCRETE AND MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS 5 FOOT O.C. WITHIN 48 HOURS OF PLACING. SIDEWALK THICKNESS SHALL BE 4" THICK WITHIN RESIDENTIAL AREAS. SIDEWALK THICKNESS SHALL BE 6" THICK WITHIN 10' OF CROSS STREETS/INTERSECTIONS, AT DRIVEWAYS, AND WITHIN ALL AREAS SUBJECT TO VEHICULAR TRAFFIC.
 - 5. CURBS : CONCRETE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS AT 10 FOOT (O.C.) MAX. SPACING (NO SECTION SHALL BE LESS THAN 4 FEET) WITHIN 48 HOURS OF PLACING.
- C. INSTALLATION:
 - 1. STABILIZED SUBGRADE FOR ROADWAYS SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY PER AASTHO T-180 AND HAVE A MIN. L.B.R. OF 40.
 - 2. LIMEROCK BASE COURSE FOR PAVED AREAS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS PER AASTHO T-180, HAVE A L.B.R. OF 100, AND CONFORM WITH THE FOLLOWING:
 - LOCAL: A MINIMUM THICKNESS OF 8" & SHALL BE CONSTRUCTED IN TWO FOUR INCH LIFTS OR 10" CRUSHED CONCRETE, PRIME & TACK COAT PER FDOT SECTION 300.
 - COLLECTOR: A MINIMUM THICKNESS OF 12" & SHALL BE CONSTRUCTED IN TWO SIX INCH LIFTS. PRIME & TACK COAT PER FDOT SECTION 300.
 - 3. INSTALLATION OF THE BASE COURSE AND WEARING COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR TYPE "S" ASPHALTIC CONCRETE OR THE LATEST REVISION.
- D. TESTING:
 - 1. THE FINISHED SURFACE OF THE ASPHALT BASE COURSE AND THAT OF THE ASPHALT WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
 - 2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA.
 - 3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE CONTRACTOR.
 - 4. DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED.
 - 5. DENSITY TESTS AND AS-BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD (E.O.R.) AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED, INCLUDING AS-BUILTS ON PAVED SWALES AND DRIVEWAYS.

VII. PAVEMENT MARKING & SIGNAGE

- A. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," LATEST EDITION; AND CITY OF LAKE WORTH ENGINEERING & UTILITY DEPARTMENT STANDARDS (LATEST EDITION).

VIII. NPDES REQUIREMENT

- A. AT LEAST TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A CSP "NOTICE OF INTENT (N.O.I.) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND" FORM (DEP FORM 62-621.300(4)(b)) TO FDEP NOTICES CENTER. THE CONTRACTOR WILL BE RESPONSIBLE FOR (AT THE CONTRACTORS EXPENSE) (1) ASSISTING THE OWNER(S) WITH PREPARING, COMPLETING, AND FILING THE N.O.I. AND N.O.T. TO FDEP (2) PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) (REQUIRED PRIOR TO THE NOI SUBMITTAL) (3) IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WAS REQUIRED TO BE DEVELOPED PRIOR TO THE NOI SUBMITTAL, AND (4) RETENTION OF RECORDS REQUIRED BY THE PERMIT, INCLUDING RETENTION OF A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL SITE STABILIZATION. A "NOTICE OF TERMINATION (N.O.T.) OF GENERIC PERMIT COVERAGE" FORM (DEP FORM 62-621.300(6)) MUST BE SUBMITTED TO FDEP TO DISCONTINUE PERMIT COVERAGE, SUBSEQUENT TO COMPLETION OF CONSTRUCTION. FOR ADDITIONAL INFORMATION SEE FDEP WEBSITE: <http://www.dep.state.fl.us/water/stormwater/npdes>. AS OF MARCH, 2003 THRESHOLD WILL BE REDUCED TO PROJECTS ONE ACRE OR MORE.

IX. PROJECT CLOSE-OUT

- A. CLEAN-UP:
 - 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP/ BROOM CLEAN.
 - 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
 - 3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROJECT. THE CONTRACTOR SHALL KEEP THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
 - 4. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCENCES TO EXISTING MONUMENTS, THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
 - 5. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION.
- B. PROJECT RECORD DOCUMENTS:
 - 1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
 - 2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS. SEE ENGINEERS AS-BUILT REQUIREMENTS. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
 - 3. UPON COMPLETION OF THE WATER SYSTEMS AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS FOR REVIEW AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS. ALSO SEE ENGINEERS AS-BUILT REQUIREMENTS.
 - 4. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

X. ENGINEER'S AS-BUILT REQUIREMENTS

- A. ALL AS-BUILT LOCATIONS MENTIONED BELOW SHALL PROVIDE COORDINATES (NORTHING AND EASTING) SPATIALLY LOCATED WITHIN STATE PLANE COORDINATES. ALL LOCATIONS (NORTHING AND EASTING) SHALL BE PROVIDED TO THE NEAREST TENTH OF A FOOT. ALSO ALL AS-BUILT LOCATION POINT COORDINATES SHALL BE PROVIDED AT THE CORRESPONDING NORTHING AND EASTING IN AN AUTOCAD FILE.
- B. ROCK AS-BUILTS SHALL BE PROVIDED FOR ROADWAYS AND DRIVEWAYS AREAS WHICH SHALL CONSIST OF THE FOLLOWING:
 - 1. ROCK ELEVATIONS AT ALL HIGH AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.
 - 2. ROCK AS-BUILTS AND LIP OF CURB AS-BUILT ELEVATIONS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
 - 3. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS SHALL BE SHOWN.
 - 4. ELEVATIONS AROUND ISLAND AREAS WILL ALSO BE REQUIRED.
 - 5. WHERE CONCRETE IS TO BE USED AS A FINISHED PRODUCT FOR THE ROADWAY OR DRIVEWAY ROCK AS-BUILTS WILL BE REQUIRED AS INDICATED ABOVE AS WELL AS AS-BUILTS ON THE FINISHED CONCRETE AT LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
 - 6. AS-BUILTS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, PRIOR TO PLACEMENT OF ASPHALT OR TOPSOIL/SOD, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.
- C. SIDEWALK AS-BUILTS SHALL BE PROVIDED CONSISTING OF THE FOLLOWING: LOCATION REFERENCED TO RIGHT OF WAY AND AS-BUILT ELEVATIONS PROVIDED AT BACK AND FRONT OF SIDEWALK EVERY 50 LF AND AT THE PC AND PT ANGLE CURVES.
- D. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS AND "AS-BUILTS", ON FULL SIZE, 24" X 36" REPRODUCIBLE MATERIAL, EIGHT (8) SETS OF THESE RECORD DRAWINGS AND "AS-BUILTS" SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR. ADDITIONALLY, AN ELECTRONIC COPY OF THESE RECORD DRAWINGS AND "AS-BUILTS", SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN BOTH PDF AND AUTOCAD (VERSION 2007 OR GREATER).
- E. FINAL DELIVERABLES SHALL INCLUDE AN AUTOCAD-COMPATIBLE DIGITAL FILE CONTAINING ALL PERTINENT RECORD DRAWING AND "AS-BUILT" INFORMATION (INCLUDING, WATER, SEWER, PAVING, AND DRAINAGE). FILE TO BE SPATIALLY LOCATED WITHIN STATE PLANE COORDINATES.

Matthew J. Cigale
Florida P.E. No. 74584

CTA JOB No. 15-0006-001-03

| REVISIONS | | | |
|-----------|----|-------------|--|
| DATE | BY | DESCRIPTION | |
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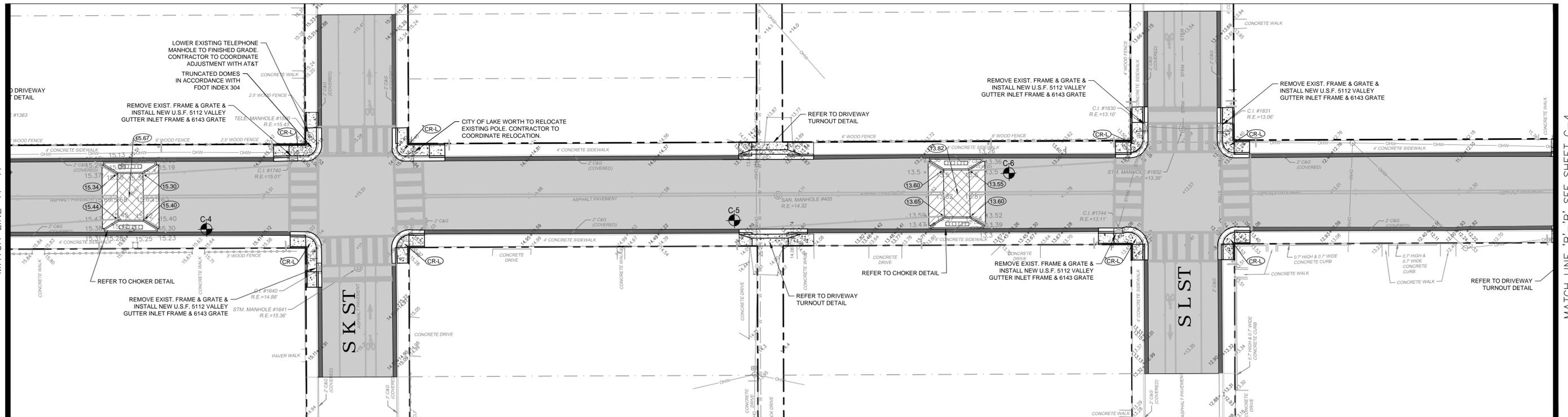
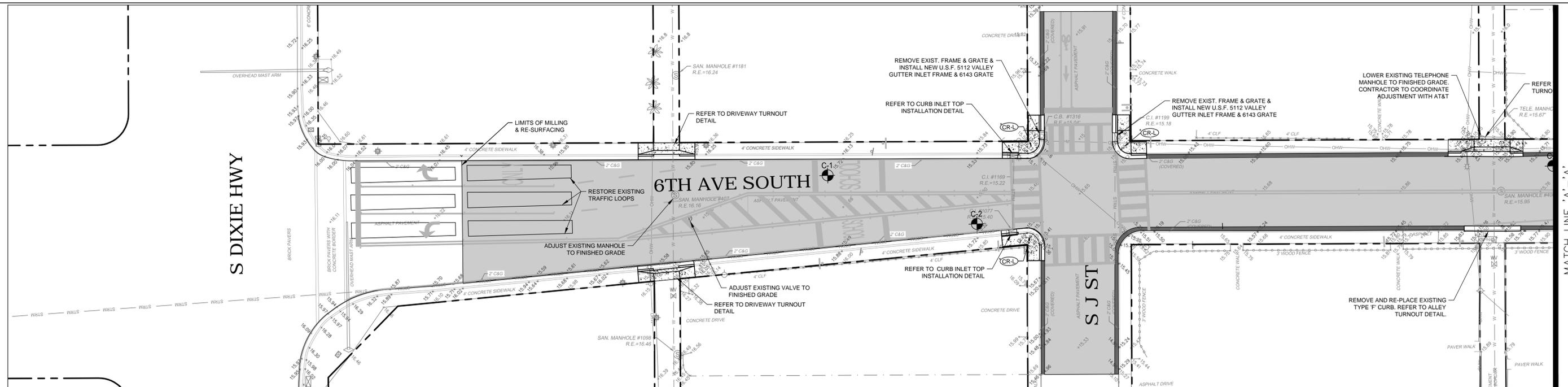
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

6TH AVE. SOUTH ROADWAY AND
STREETSCAPE IMPROVEMENTS
PREPARED FOR:
CITY OF LAKE WORTH

**GENERAL NOTES AND
SPECIFICATIONS**

SHEET NO.
C-2

R:\Engineering\2015\15-0006-001-Lake Worth Continuing Services\003-6th Avenue Roadway & Streetscape- TO#4 Drawings\15-0006-001-03-FIG.dwg [C-3] Sep 22, 2015 1:26pm MCGALE



EXISTING SYMBOL LEGEND

- | | | |
|------------------------------|-----------------------------|----------------------------|
| ANCHOR | METAL STREET LIGHT POLE | WOOD STREET LIGHT POLE |
| BOLLARD | PEDESTRIAN CROSSING SIGNAL | FIRE DEPARTMENT CONNECTION |
| BACKFLOW PREVENTOR | SANITARY SEWER MANHOLE | FIRE HYDRANT |
| CATCH BASIN | SANITARY SEWER CLEANOUT | FORCE MAIN VALVE |
| CONCRETE POWER POLE | SPOT GROUND ELEVATION | IRRIGATION VALVE |
| CONCRETE LIGHT POLE | SPOT HARD SURFACE ELEVATION | MAILBOX |
| CURB INLET | TELEPHONE MANHOLE | WATER METER |
| DECORATIVE (YARD) LIGHT POLE | TRAFFIC CONTROL BOX | WOOD POWER POLE |
| DOUBLE DETECTOR CHECK VALVE | TRAFFIC POLE | SHADE TREE |
| DRAINAGE MANHOLE | TRAFFIC PULL BOX | PALM TREE |
| ELECTRICAL CONTROL BOX | WATER GATE VALVE | |
| ELECTRICAL MANHOLE | | |
| ELECTRICAL METER | | |
| ELECTRICAL PULL BOX | | |

PROPOSED LEGEND—PAVING & GRADING

- | | | |
|--|---|---|
| OVER HEAD WIRES | INDICATES MILL AND RESURFACE EXISTING ASPHALT | PAVEMENT CORING LOCATIONS |
| PAINT MARKING BURIED GAS LINE | MILL/REMOVE EXISTING PAVEMENT OVER EXISTING CURBING (1 1/2" AVG.) | ADJUST EXISTING VALVE TO FINISHED GRADE |
| OVER HEAD WIRES | INDICATES PROPOSED CONCRETE SIDEWALK SECTION | |
| PROPERTY LINE | INDICATES STAMPED CONCRETE SLAB | |
| WATER MAIN | REMOVE AND DISPOSE EXISTING ROADWAY PAVEMENT SECTION & INSTALL NEW ROADWAY PAVEMENT CROSS SECTION | |
| STORM DRAINAGE | INDICATES SPOT ELEVATION | |
| SANITARY SEWER (GRAVITY) | INDICATES SIDEWALK/CONCRETE ELEVATION | |
| SANITARY SEWER (FORCE MAIN) | FLOW ARROW | |
| PALM BEACH COUNTY TRAFFIC ENGINEERING (BURIED FIBER OPTIC CABLE) | INDICATES CURB RAMP L | |
| FIBER OPTIC CABLE | INDICATES MODIFIED CURB RAMP L | |
| GAS MAIN | INDICATES CURB RAMP G | |
| BURIED ELECTRIC | | |
| BURIED TV | | |
| BURIED TELEPHONE | | |

| PAVEMENT CORE INFORMATION | | |
|---------------------------|-------------------------------|-----------------------|
| CORE # | AVG. ASPHALT THICKNESS (INCH) | BASE THICKNESS (INCH) |
| C-1 | 2.90 | 12 |
| C-2 | 3.14 | 9 |
| C-3 | 2.60 | 9 |
| C-4 | 2.54 | 10 |
| C-5 | 1.50 | 9.50 |
| C-6 | 2.95 | 9 |

Always call 811 two full business days before you dig



Matthew J. Cigale
Florida P.E. No. 74584

CTA JOB No. 15-0006-001-03

| REVISIONS | | | | | |
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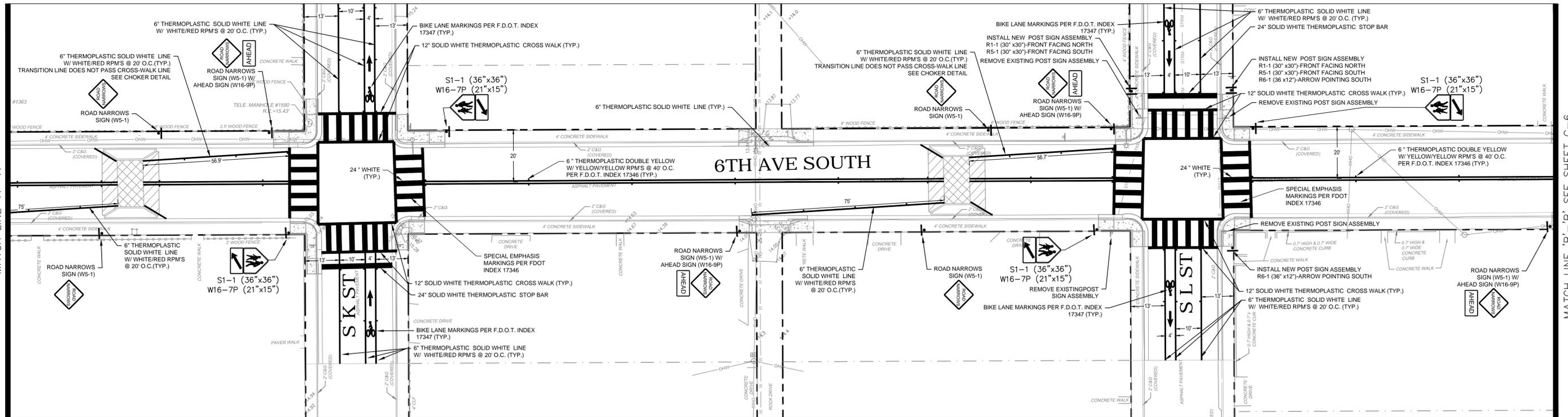
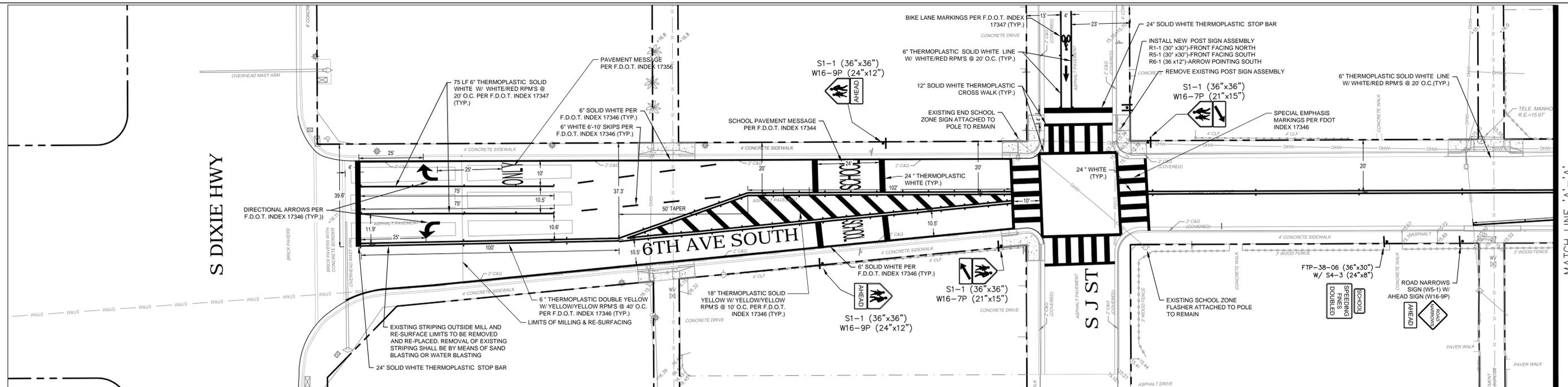
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

6TH AVE. SOUTH ROADWAY AND STREETScape IMPROVEMENTS PREPARED FOR: CITY OF LAKE WORTH

PAVING AND GRADING PLAN

SHEET NO. C-3

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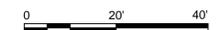


EXISTING SYMBOL LEGEND

| | | | | | | | |
|--|------------------------------|--|-----------------------------|--|----------------------------|--|-------------------------------|
| | ANCHOR | | METAL STREET LIGHT POLE | | WOOD STREET LIGHT POLE | | OVER HEAD WIRES |
| | BOLLARD | | PEDESTRIAN CROSSING SIGNAL | | FIRE DEPARTMENT CONNECTION | | PAINT MARKING BURIED GAS LINE |
| | BACKFLOW PREVENTOR | | SANITARY SEWER MANHOLE | | FIRE HYDRANT | | OVER HEAD WIRES |
| | CATCH BASIN | | SANITARY SEWER CLEANOUT | | FORCE MAIN VALVE | | WATER MAIN |
| | CONCRETE POWER POLE | | SPOT GROUND ELEVATION | | IRRIGATION VALVE | | STORM DRAINAGE |
| | CONCRETE LIGHT POLE | | SPOT HARD SURFACE ELEVATION | | MAILBOX | | SANITARY SEWER (GRAVITY) |
| | CURB INLET | | SPOT/LANDSCAPE LIGHTING | | WATER METER | | SANITARY SEWER (FORCE MAIN) |
| | DECORATIVE (YARD) LIGHT POLE | | TELEPHONE MANHOLE | | WOOD POWER POLE | | BURIED ELECTRIC |
| | DOUBLE DETECTOR CHECK VALVE | | TRAFFIC CONTROL BOX | | SHADE TREE | | BURIED TV |
| | DRAINAGE MANHOLE | | TRAFFIC PULL BOX | | PALM TREE | | BURIED TELEPHONE |
| | ELECTRICAL CONTROL BOX | | WATER GATE VALVE | | | | |
| | ELECTRICAL MANHOLE | | | | | | |
| | ELECTRICAL METER | | | | | | |
| | ELECTRICAL PULL BOX | | | | | | |

NOTES:

- ALL EXISTING PAVEMENT MARKINGS AND SIGNING DISTURBED DUE TO PROPOSED CONSTRUCTION ACTIVITIES SHALL BE REPLACED.
- ALL STOP BARS TO BE MIN. 4' BEHIND CROSSWALK OR SIDEWALK.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (EXCLUDING.
- EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SANDBLASTING ONLY.



Matthew J. Cigale
Florida P.E. No. 74584

CTA JOB No. 15-0006-001-03

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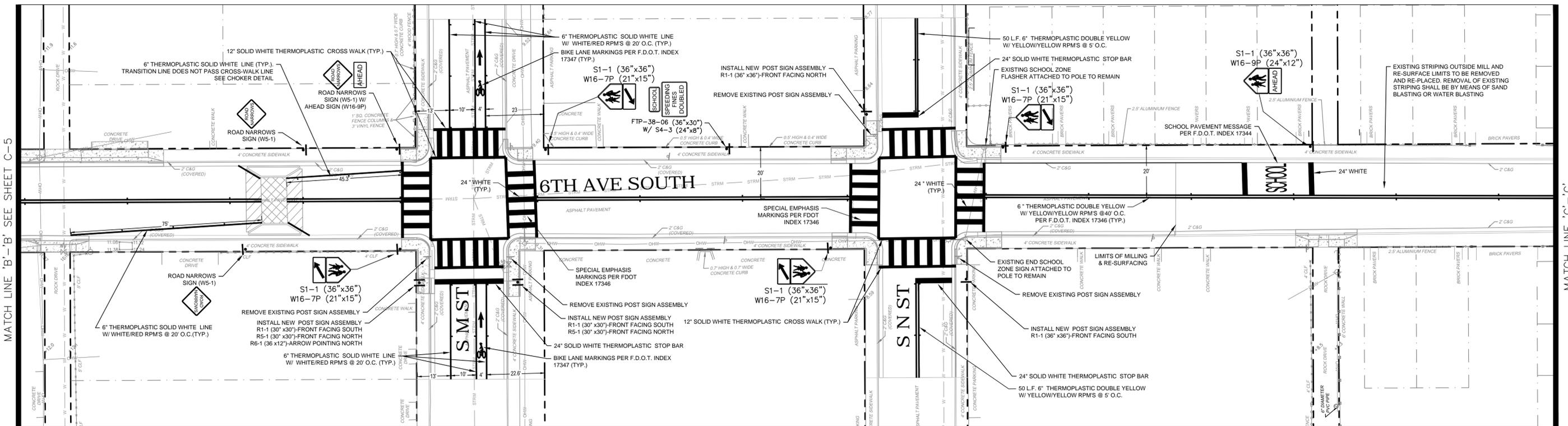
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6TH AVE. SOUTH ROADWAY AND
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PREPARED FOR:
CITY OF LAKE WORTH

**PAVEMENT MARKING
AND SIGNAGE PLAN**

SHEET NO.
C-5

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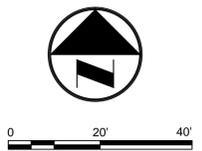
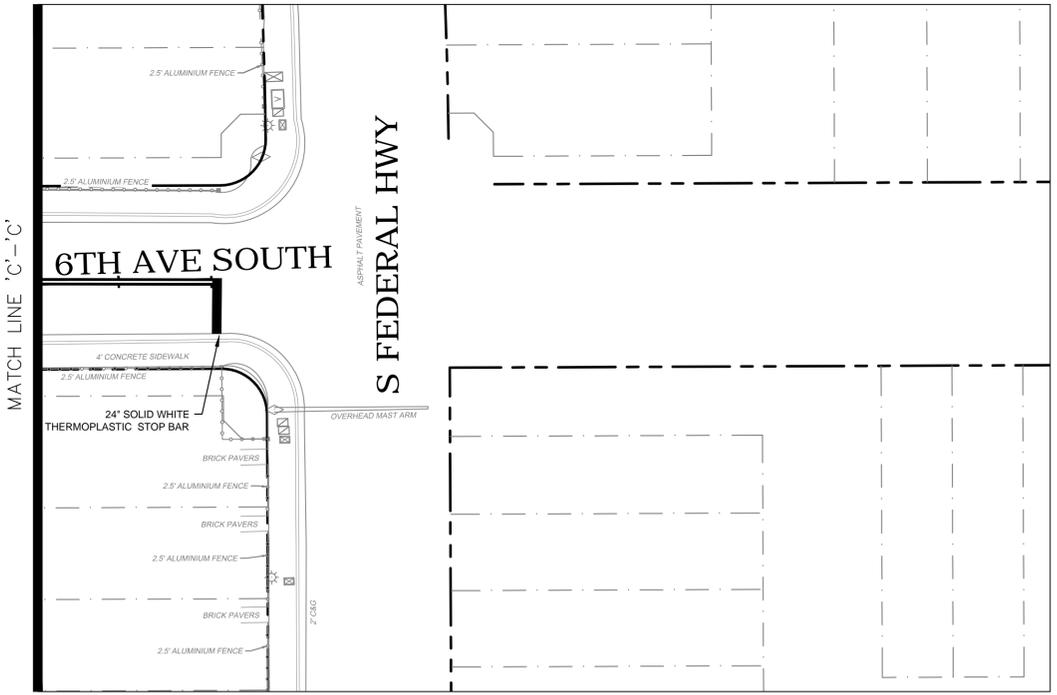


EXISTING SYMBOL LEGEND

| | | | | | | | |
|--|------------------------------|--|-----------------------------|--|----------------------------|--|--|
| | ANCHOR | | METAL STREET LIGHT POLE | | WOOD STREET LIGHT POLE | | OVER HEAD WIRES |
| | BOLLARD | | PEDESTRIAN CROSSING SIGNAL | | FIRE DEPARTMENT CONNECTION | | PAINT MARKING BURIED GAS LINE |
| | BACKFLOW PREVENTOR | | SANITARY SEWER MANHOLE | | FIRE HYDRANT | | OVER HEAD WIRES |
| | CATCH BASIN | | SANITARY SEWER CLEANOUT | | FORCE MAIN VALVE | | PROPERTY LINE |
| | CONCRETE POWER POLE | | SIGN | | IRRIGATION VALVE | | WATER MAIN |
| | CONCRETE LIGHT POLE | | SPOT GROUND ELEVATION | | MAILBOX | | STORM DRAINAGE |
| | CURB INLET | | SPOT HARD SURFACE ELEVATION | | WATER METER | | SANITARY SEWER (GRAVITY) |
| | DECORATIVE (YARD) LIGHT POLE | | SPOT/LANDSCAPE LIGHTING | | WOOD POWER POLE | | SANITARY SEWER (FORCE MAIN) |
| | DOUBLE DETECTOR CHECK VALVE | | TELEPHONE MANHOLE | | SHADE TREE | | PALM BEACH COUNTY TRAFFIC ENGINEERING (BURIED FIBER OPTIC CABLE) |
| | DRAINAGE MANHOLE | | TRAFFIC CONTROL BOX | | PALM TREE | | FIBER OPTIC CABLE |
| | ELECTRICAL CONTROL BOX | | TRAFFIC POLE | | | | GAS MAIN |
| | ELECTRICAL MANHOLE | | TRAFFIC PULL BOX | | | | BURIED ELECTRIC |
| | ELECTRICAL METER | | WATER GATE VALVE | | | | BURIED TV |
| | ELECTRICAL PULL BOX | | | | | | BURIED TELEPHONE |

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS AND SIGNING DISTURBED DUE TO PROPOSED CONSTRUCTION ACTIVITIES SHALL BE REPLACED.
2. ALL STOP BARS TO BE MIN. 4' BEHIND CROSSWALK OR SIDEWALK.
3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (EXCLUDING.
4. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SANDBLASTING ONLY.



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6TH AVE. SOUTH ROADWAY AND
STREETSCAPE IMPROVEMENTS
PREPARED FOR:
CITY OF LAKE WORTH

**PAVEMENT MARKING
AND SIGNAGE PLAN**

SHEET NO.
C-6

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GENERAL NOTES

- EXISTING UTILITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND 'SUNSHINE STATE ONE CALL OF FLORIDA INC.' TO LOCATE ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES DURING CONSTRUCTION AND RESTITING UTILITIES TO NEW GRADE AND SLOPE WITHIN THE LIMITS OF CONSTRUCTION.
- SAFETY:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT, THE FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, AND ALL APPLICABLE O.S.H.A. REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF OVERHEAD ELECTRIC LINES.
- MAINTENANCE OF TRAFFIC:** CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (MOT) PLANS, PREPARED BY A WORK SITE TRAFFIC SUPERVISOR AS CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, PRIOR TO COMMENCING CONSTRUCTION WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY.
- ACCESS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES.
- WARRANTY:** ALL WORK, MATERIALS, OR EQUIPMENT SHALL BE WARRANTED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH. AGAINST DEFECTIVE MATERIALS AND/OR WORKMANSHIP. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE CITY OF LAKE WORTH.
- SHOP DRAWINGS:** THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES (OR MORE, IF REQUIRED) OF SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATIONS AND OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION DRAWN TO ACCURATE SCALE. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. SHOP DRAWINGS SHALL BE SUBJECT TO THE FOLLOWING:
 - BY SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA BEARING AN APPROVAL STAMP, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT IT HAS CHECKED AND COORDINATED EACH ITEM WITH OTHER APPLICABLE APPROVED SHOP DRAWINGS AND THE CONTRACT REQUIREMENTS.
 - SHOP DRAWINGS AND CATALOG DATA SUBMITTED WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. APPROVAL OF SHOP DRAWINGS, SAMPLES, OR CATALOG DATA BY THE ENGINEER OF RECORD OR THE CITY OF LAKE WORTH SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 - ANY PROPOSED SUBSTITUTE OR EQUAL TO THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE ACCOMPANIED BY CALCULATIONS SUBSTANTIATING EQUIVALENCY. SHOP DRAWINGS WITH SUBSTITUTE MATERIALS NOT ACCOMPANIED BY CALCULATIONS WILL BE RETURNED WITHOUT REVIEW.
 - THE CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING THE SHOP DRAWING AND MATERIALS ORDERING PHASE OF THE PROJECT AND ADVISE THE ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES.
 - INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
- FIELD REVIEWS:** THE CONTRACTOR SHALL PROVIDE NOTIFICATION, 48 HOURS (MIN.), PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL SUPPLY ALL NECESSARY EQUIPMENT, LABOR, AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY OF LAKE WORTH AND THE ENGINEER OF RECORD.
- DENSITY TESTING:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED FOR ALL SUBGRADE, BASE MATERIAL, PIPE BASE MATERIAL, BACKFILL, & ALL OTHER AREAS WHERE COMPACTION REQUIREMENTS ARE SPECIFIED. ALL TEST RESULTS SHALL BE SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND COPIES SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH.
- PERMITS:** THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION PRIOR TO RECEIPT OF ALL APPLICABLE PERMITS AND APPROVALS INCLUDING AN APPROVED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS OF THE PERMITS AND AGENCY APPROVALS.
- EROSION CONTROL:** ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH FOOT INDICES 102, 103 AND 106, THE FDP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (IF APPLICABLE), AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). FILTER FABRIC HAY BALE THROUGHTALLS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT ALL UNSTABILIZED CONSTRUCTION ACCESS POINTS, PER FOOT INDEX NO. 106.
- STORM DRAINAGE:** ALL STORM DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC PER FOOT STANDARD INDEX NO. 280. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL GRATES SHALL BE SECURED TO THE STRUCTURE AND CHAIN. ALL STORM DRAINAGE SHALL BE FREE OF SILT AND SEDIMENT AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
- DEWATERING:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR CONSTRUCTION. NO WATER FROM DEWATERING MEASURES SHALL BE DISCHARGED OFF-SITE. ALL DISCHARGE SHALL BE CONTAINED IN ON-SITE SEDIMENT BASINS.
- SIDEWALKS:** ALL SIDEWALKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL CURB RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH FOOT STANDARD INDEX NO. 304 AND THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. ALL WALKWAYS CROSSING VEHICULAR AREAS SHALL HAVE A DETECTABLE WARNING SURFACE (TRUNCATED DOME) IN ACCORDANCE WITH FOOT STANDARD INDEX NO. 304 AND THE FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL SIDEWALKS SHALL BE BROOM FINISHED WITH AN EVEN, DUSTLESS SURFACE AND SHALL BE FREE OF CRACKS AT TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
- PAVEMENT:** WHERE FULL-DEPTH PAVEMENT REPLACEMENT IS SPECIFIED, EXISTING BASE/ROCK MAY NOT BE RE-USED, HOWEVER IT MAY BE UTILIZED AS SUBGRADE STABILIZATION MATERIAL. ALL SUBGRADE SHALL BE FREE OF MUCK, ROOTS, UNDERBRUSH, VEGETATIVE MATTER, GARBAGE, TRASH, OR ANY OTHER UNSUITABLE MATERIALS. BASE/ROCK AND ASPHALT SHALL BE PLACED IN MULTIPLE LIFTS AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. FINAL LIFT OF ASPHALT SHALL PROVIDE A UNIFORM FINISH AND SHALL BE PLACED TO CORRECT MINOR IMPERFECTIONS IN THE FIRST LIFT AND TO PROVIDE POSITIVE DRAINAGE FOR THE ROADWAY.
- SIGNING AND PAVEMENT MARKING:** ALL PAVEMENT MARKINGS WITHIN CITY OF LAKE WORTH RIGHT-OF-WAY SHALL BE THERMOPLASTIC. THERMOPLASTIC SHALL NOT BE INSTALLED ON PAVEMENT UNTIL A MINIMUM OF FIVE CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED. BLUE/BLUE REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE INSTALLED TO INDICATE THE LOCATION OF ALL FIRE HYDRANTS.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **GENERAL NOTES** 01

ALLEY Y TURNOUT DETAIL

* NOTE: EDGE OF DRIVEWAY TO BE 1" ABOVE ROADWAY EDGE OF PAVEMENT GRADE.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **ALLEY TURNOUTS** 04

CONCRETE CURB AND GUTTER

* NOTE: 2% MAX. SLOPE FOR PEDESTRIAN PATHWAYS, 12% MAX. SLOPE FOR DRIVEWAYS.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **CONCRETE CURB AND GUTTER** 05

DRIVEWAY TURNOUTS

*SLOPE VARIES TO PROVIDE LONGITUDINAL SLOPE THRU DRIVEWAY

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **DRIVEWAY TURNOUTS** 06

CONCRETE BUMPER GUARD

MONOLITHIC CURB AND WALK DETAIL
TO BE USED IN PARKING AREAS & WHERE TYPE 'F' CURB & GUTTER IS NOT REQUIRED.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **CONCRETE BUMPER GUARD AND MONOLITHIC CURB AND WALK** 08

PAVER BRICK DETAIL
N.T.S.

NOTE: INSTALLATION OF PAVER BRICKS SHALL BE IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION CRITERIA. PAVER BRICK THICKNESS SHALL BE MINIMUM 2-3/8 INCHES. PAVER BRICK SHALL BE COLORED THROUGH THE FULL DEPTH OF THE PAVER AND NOT JUST THE SURFACE. THE SAND BEDDING COURSE SHALL BE WELL GRADED, CLEAN, WASHED LIMESTONE SCREENINGS WITH 100% PASSING A 3/8" SIEVE SIZE AND A MAXIMUM 3% PASSING A No. 200 SIEVE SIZE. DO NOT USE MASON SAND. ALL EDGES OF THE PAVER BRICK SHALL BE RESTRAINED BY CONCRETE HEADER CURB OR VALLEY GUTTER. CITY TO APPROVE SIDEWALK PAVER MANUFACTURER, TYPE, COLOR, AND SIZE. SUBMIT THREE (3) SAMPLE PAVERS FOR APPROVAL.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **PAVER BRICK** 17

NEW OVERLAY PAVEMENT JOINT

NOTE: THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **PAVEMENT JOINT** 20

PAVEMENT RESTORATION DETAIL

CONCRETE SIDEWALK RESTORATION DETAIL
N.T.S.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT **PAVEMENT AND SIDEWALK RESTORATION** 19

| REVISIONS | | | | | | DESIGNED BY | | | | | |
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6TH AVE. SOUTH ROADWAY AND STREETScape IMPROVEMENTS PREPARED FOR: CITY OF LAKE WORTH

PAVING AND GRADING DETAILS

SHEET NO. **C-7**

Matthew J. Cigale
Florida P.E. No. 74584

CTA JOB No. 15-0006-001-03

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CONCRETE WALK CONSTRUCTION

NOTE:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED THROUGH DRIVEWAYS.
 2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS AT DRIVEWAYS & OTHER AREAS.
 3. CONCRETE SHALL BE BROOM FINISHED WITH EVEN DUSTLESS SURFACE.

| TABLE OF SIDEWALK THICKNESS - "T" | |
|---|----|
| RESIDENTIAL AREAS | 4" |
| WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS | 6" |

| TABLE OF SIDEWALK WIDTHS - "W" | |
|---|----|
| STANDARD WIDTH | 5' |
| OTHER AREAS AS SPECIFIED BY THE CITY ENGINEER | |

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT CONCRETE WALK 07

EROSION CONTROL NOTES

- THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
- APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
- INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT, REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
- KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
- FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
- DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
- ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
- EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF LAKE WORTH.
- DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT EROSION CONTROL NOTES DETAIL 25

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. and the manual on uniform traffic control devices, (MUTCD).

PERMANENT MARKINGS

Installation:
 - All markings shall be installed by the extruded method.
 - Markings shall be free of weaves, bows, drips, drags, and other degrading items.
 - Chalk shall be used for all layout markings

Materials:
 - All materials shall be alkyd or hydrocarbon thermoplastic meeting all FDOT specifications.

Thickness:
 - All markings shall be installed to yield 90 mils of material measured above the pavement surface.

Spheres:
 - Reflective glass spheres are to be applied to all stripes and markings per FDOT specifications.

Alternate Material:
 - STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.

Layout:
 - Layout shall be made using marking chalk. It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.

Final Pavement Surface:
 - Only full backed marking tape is allowed.
 - All tape shall be totally removed concurrent with permanent marking placement.

Other Pavement Surfaces:
 - Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT PAVEMENT MARKING SPECIFICATIONS 13

GENERAL SPECIFICATIONS:

- BLADE:** ALCOA NO.86054,6063-T6 ALLOY, ETCHED, DEGREASED, AND DEBURRED WITH NO.1200 ALDOLINE FINISH WITH HIGH INTENSITY GREEN BACKGROUND DIMENSIONS: 6" OR 9" IN HEIGHT, AND 24", 30", OR 36" IN LENGTH
- LETTERS:** NAME 4" SERIES "B" HIGH INTENSITY (SILVER) SUFFIX 2" SERIES "B" HIGH INTENSITY (SILVER) ALL LETTERS FOR SIGNS ALONG COLLECTOR OR ARTERIAL ROADWAYS SHALL BE 7" SERIES "B" WITH 4" SERIES "B" SUFFIX ON 9" HIGH BLADES.
- POST:** STEEL FLANGED GALVANIZED CHANNEL PER A.S.T.M. A123 WITHOUT ANCHOR PLATES.
- BRACKETS:** DIE CAST HIGH STRENGTH ALUMINUM ALLOY, MIN. TENSILE STRENGTH 45,000 P.S.I., DEGREASED, TUMBLED, AND POLISHED SIDES OF ALL SLOTS SHALL BE SOLID METAL WITH TWO HOLES PER SLOT (SAME SIDE) DRILLED TO 7/32" AND TAPPED TO 1/4" TO RECEIVE STAINLESS STEEL ALLENHEAD SET SCREWS, SKIRT OF POST CAP BRACKET TO BE DRILLED AND TAPPED FOR 3 SCREWS OF WHICH NO TWO IS TO BE LESS THAN 90° OR MORE THAN 135° APART. (METRO HUSKEY NO.6 OR EQUAL.)

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT STREET SIGN DETAIL 10

STOP SIGN AND STOP BAR

NOTE:
 1. STOP SIGN PLACEMENT SHALL BE AT RADIUS, WHEN POSSIBLE (6" MINIMUM / 30" MAXIMUM FROM THROUGHFARE).
 2. AT CURBED LOCATIONS, SIGN SHALL BE 2" FROM EDGE OF SIGN TO FACE OF CURB. AT UNCURBED LOCATIONS, SIGN SHALL BE 6" TO 12" FROM EDGE OF PAVEMENT, WHERE SIDEWALK ADJUTS CURB, SIGN SHALL BE PLACED IN SIDEWALK AS SHOWN.
 3. STOP BAR AND STOP SIGN SHALL BE PLACED ADJACENT TO EACH OTHER, WHEN POSSIBLE. WHEN A CROSSWALK IS PRESENT, THE STOP BAR SHALL BE PLACED 4' CLEAR FROM CROSSWALK STRIPING.
 4. FLAT BLADE ALCOA #86054,6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALDOLINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H. 24" 30" OR 36" L.
 5. LETTERS - NAME - 6" & 9" SERIES "B" #3870 HIGH INTENSITY (SILVER) OR EQUAL - SUFFIX - 4.5" SERIES AS ABOVE.
 6. 9" BLADES WITH 6" LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH.
 7. 12" BLADES WITH 9" LETTERS:
 • THOROUGHFARE ROADS FOUR LANES OR WIDER.
 • TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.
 • ONLY ONE BLADE WILL BE USED INDICATING THE SIDE STREET NAME.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT STOP SIGN AND STOP BAR 09

CURB RAMP (MODIFIED CR-L)

NOTE: IN SOME INSTANCES THE TRUNCATED DOMES MAY BE INSTALLED ADJACENT TO THE CURB RADIUS RETURN PER FOOT INDEX 304

REMOVE EXIST. FRAME & GRATE & INSTALL NEW U.S.F. 512 VALLEY GUTTER INLET FRAME & 6143 GRATE

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT CURB RAMP DETAIL 26

INLET FILTER DETAIL

INLET FILTER INSTALLATION WITHOUT FRAME AND GRATE

WIRE SUPPORT - MOULD 6x6", 5/8 GA. 48 #/100 SQ. FT. WELD WIRE SUPPORT. EXTEND 6" MIN. AT SIDES

6" MIN.

BACKFILL AFTER INSTALLATION OF INLET FILTER

SECURE FILTER FABRIC TO FRAME AND GRATE

NOT TO SCALE

NOTES:
 1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT INLET FILTER DETAIL 26

ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

RAISED PAVEMENT MARKERS

- R.P.M.'s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.'s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.'s shall be installed using alkyd thermoplastic on asphalt and epoxy on concrete.

OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications, except for all stop bars adjacent to public right-of-way.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT PAVEMENT MARKING SPECIFICATIONS 14

TYPICAL SIGN, PLAN SYMBOL: —

M.U.T.C.D. DESIGNATION: W1-3R *

* SIGN SIZE TO BE NOTED IF OTHER THAN STANDARD.

PAVEMENT 6'(MIN.) - 12'(MAX.) W/OUT CURB 2'(MIN.) W/ CURB 7' STANDARD

NOTES:

- ALL SIGNS SHALL BE SPECIFIED USING THE M.U.T.C.D. DESIGNATION.
- ALL SIGNS SHALL BE FACED WITH HIGH INTENSITY SHEETING MATERIAL OR BETTER.
- SIGNS SHALL BE MANUFACTURED WITH 0.080" ALUMINUM BLANK.
- POSTS SHALL BE GALVANIZED CHANNEL AT 2 LBS./L.F.
- USE SHALL FOLLOW THE M.U.T.C.D. AND F.D.O.T. STANDARD DESIGN SPECIFICATIONS TO INSTALLATION.
- ANY DEVIATION FROM THIS TYPICAL SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
- REFLECTIVE POSTS MAY BE USED IF M.U.T.C.D. STANDARD IS FOLLOWED.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT STREET SIGN DETAIL 11

| REVISIONS | | | | | | DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
|-----------|----|-------------|------|----|-------------|-------------|------|------|------------|------|------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | CHECKED BY | | | CHECKED BY | | |
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CRAVEN • THOMPSON AND ASSOCIATES, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
 FAX: (854) 739-6409 TEL: (854) 739-6400
 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

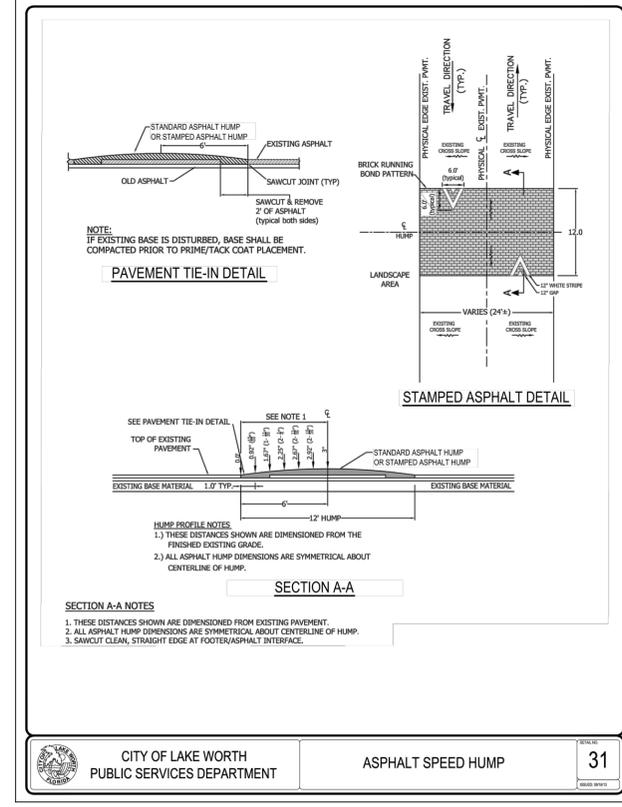
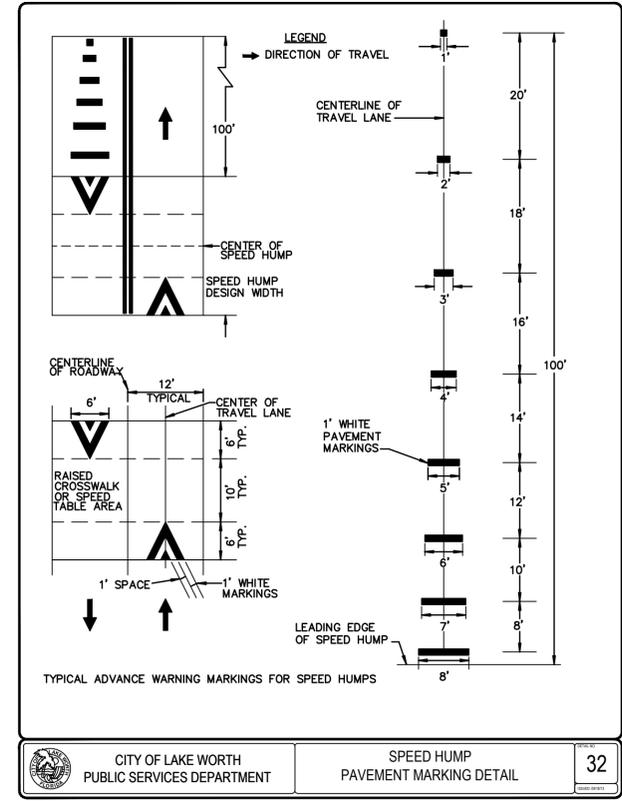
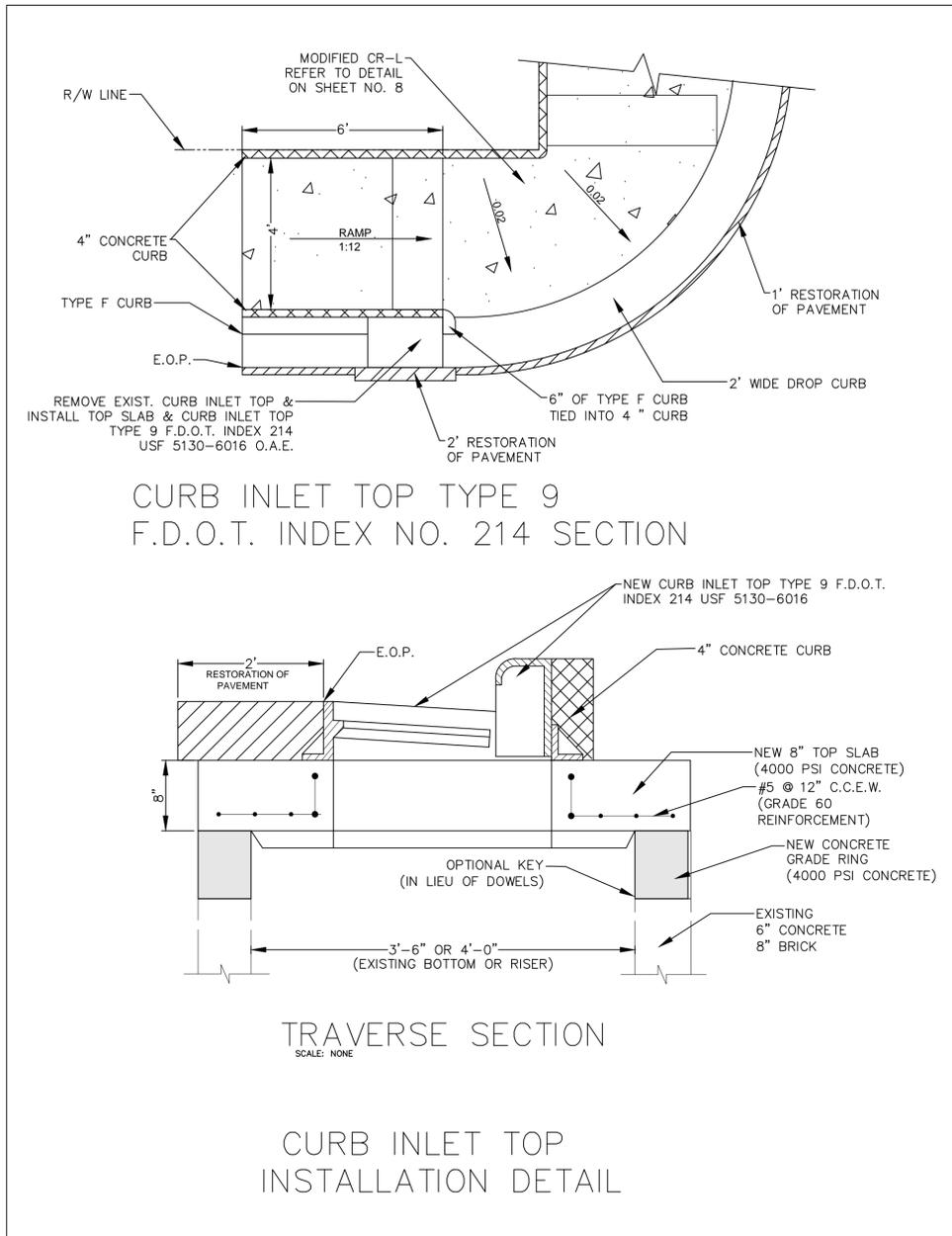
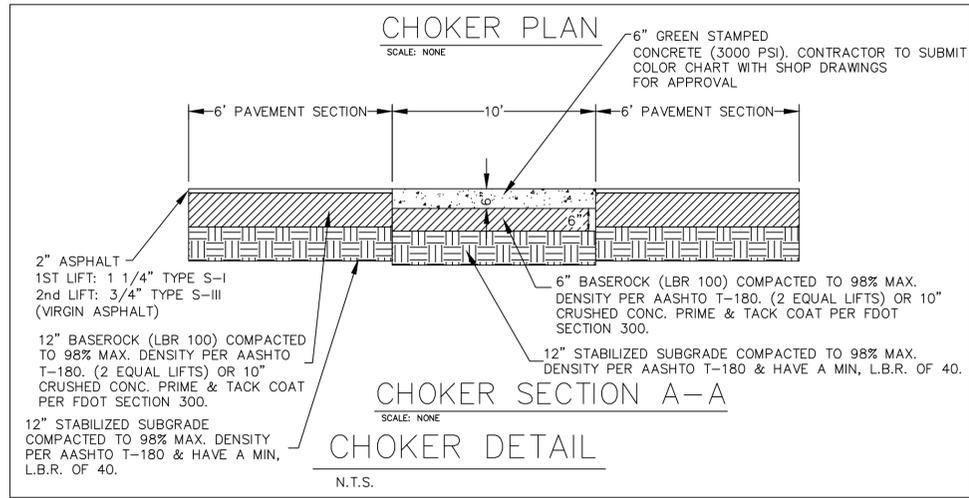
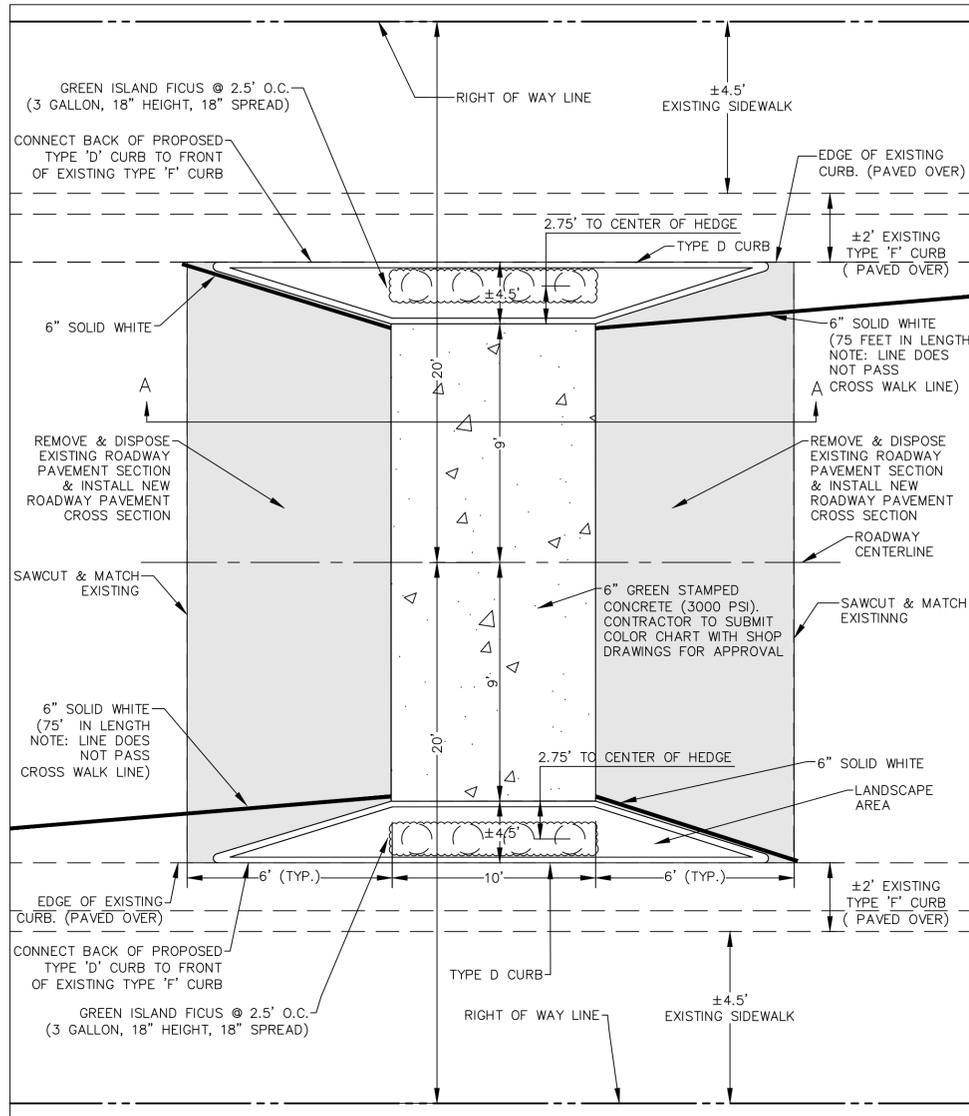
6TH AVE. SOUTH ROADWAY AND STREETScape IMPROVEMENTS PREPARED FOR: CITY OF LAKE WORTH

PAVING AND GRADING DETAILS

SHEET NO. C-8

Matthew J. Cigale
 Florida P.E. No. 74584
 CTA JOB No. 15-0006-001-03

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| REVISIONS | | | | | |
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6TH AVE. SOUTH ROADWAY AND
 STREETSCAPE IMPROVEMENTS
 PREPARED FOR:
 CITY OF LAKE WORTH

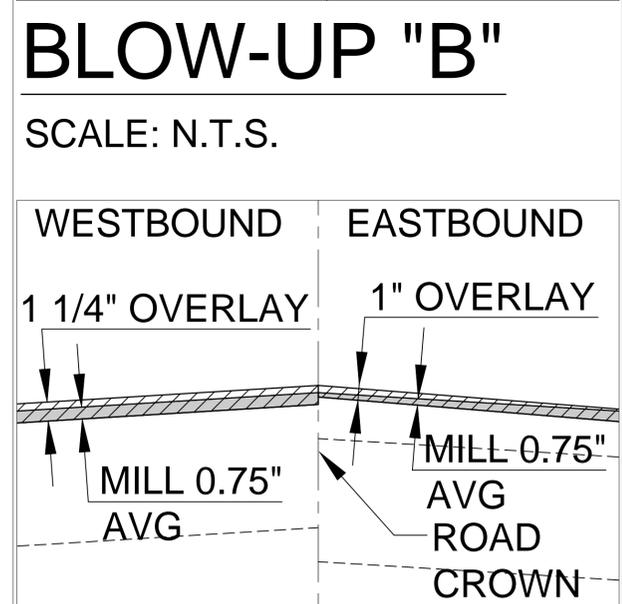
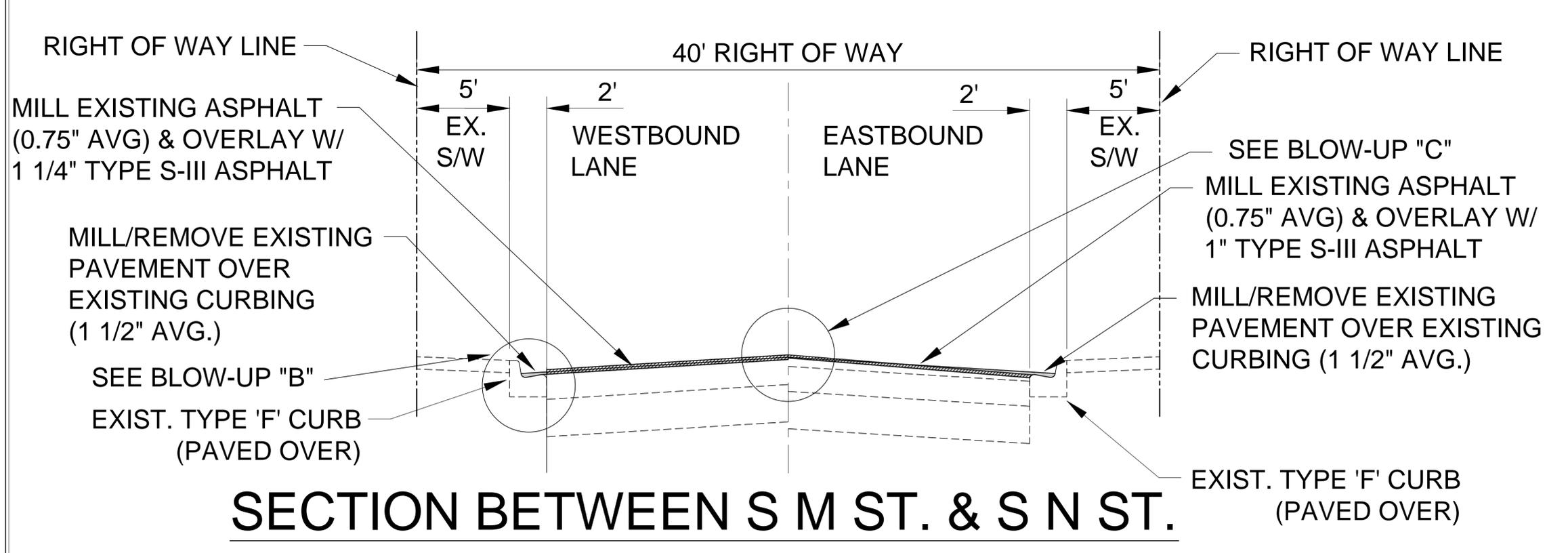
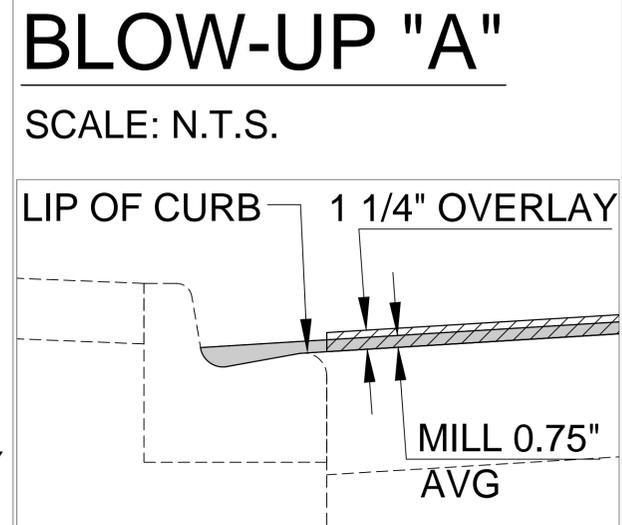
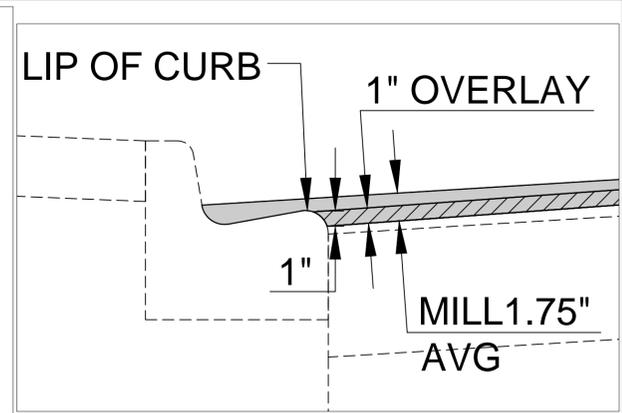
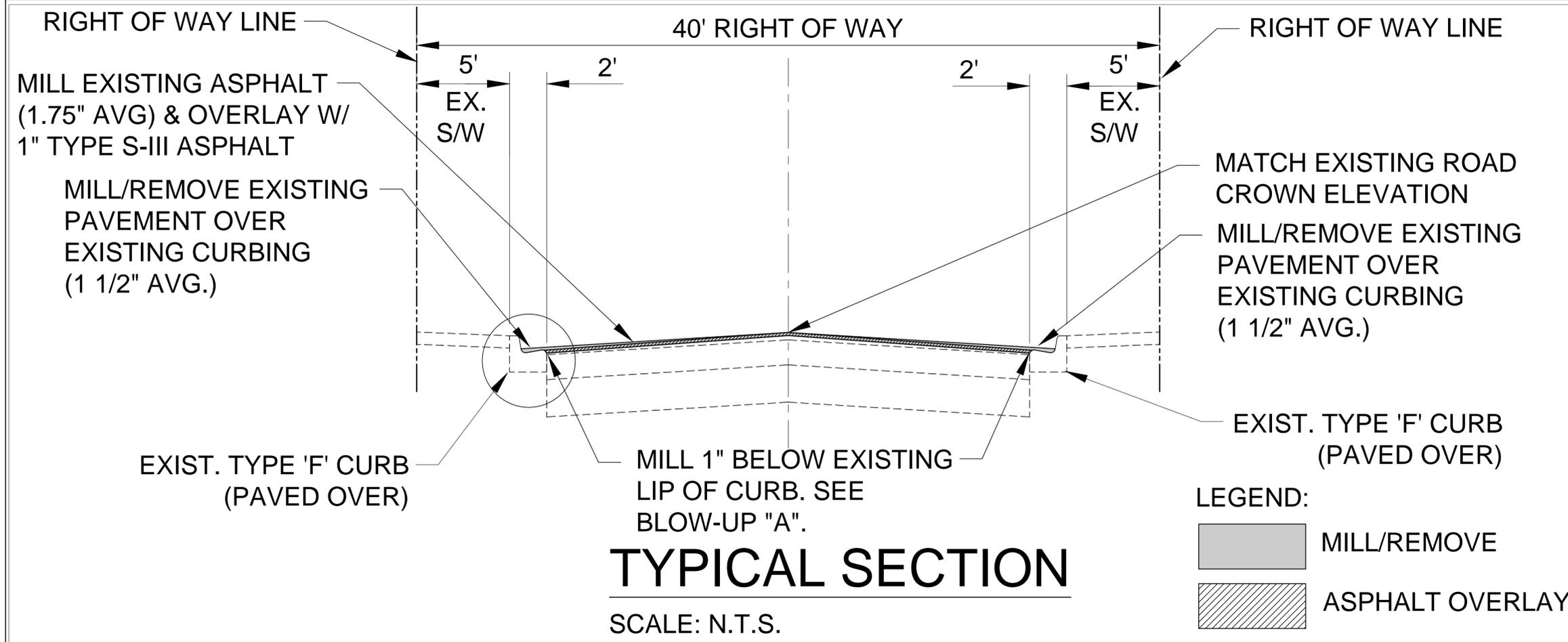
**PAVING GRADING AND
 DRAINAGE DETAILS**

SHEET NO.
C-9

Matthew J. Cigale
 Florida P.E. No. 74584

CTA JOB No. 15-0006-001-03

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 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. 0000114

6TH AVE. SOUTH ROADWAY AND STREETScape IMPROVEMENTS
 PREPARED FOR:
 CITY OF LAKE WORTH

TYPICAL SECTION
 SHEET NO.
 C-10

Matthew J. Cigale
 Florida P.E. No. 74584
 CTA JOB No. 15-0006-001-03