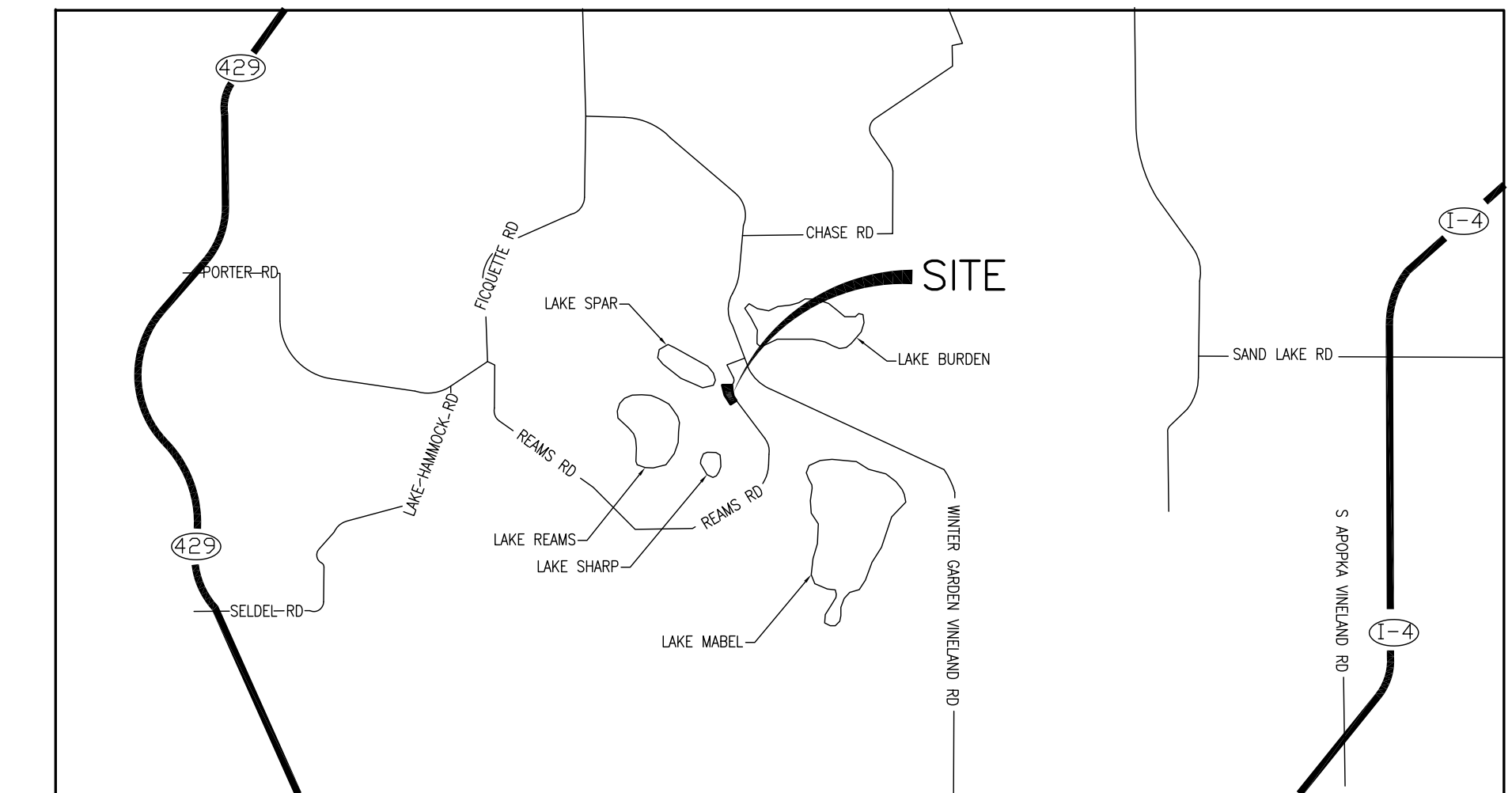


# HARDSCAPE IMPROVEMENTS BOARDWALK AND FISHING PIER LAKESIDE VILLAGE PARK PHASE II

LAKE REAMES NEIGHBORHOOD PD

PARCEL ID NO. 22-23-27-0000-00-001



VICINITY MAP  
SCALE: NTS

**LEGAL DESCRIPTION:**

LEGAL DESCRIPTION OF APP' PARK A PARCEL (PER OFFICIAL RECORDS BOOK 10369, PAGE 3567)

A PARCEL OF LAND LYING IN THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 23 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA.

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF TRACT N, WINDERMERE TRAILS PHASE 1, AS RECORDED IN PLAT BOOK 76, PAGES 76 THROUGH 89 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN NORTH 53°35' 49" EAST ALONG THE NORTHERLY LINE OF SAID TRACT N, ALSO BEING THE SOUTHERLY RIGHT-OF-WAY LINE OF SILVERLAKE PARK DRIVE FOR A DISTANCE OF 45.29 FEET TO A POINT ON THE EASTERLY LINE OF AFORESAID WINDERMERE TRAILS PHASE 1, ALSO BE A POINT ON THE WESTERLY LINE OF THE REAMS ROAD REALIGNMENT CORRIDOR PER OFFICIAL RECORDS BOOK 10084, PAGE 2180 OF AFORESAID PUBLIC RECORDS; THENCE DEPARTING SAID NORTHERLY LINE OF TRACT N AND SAID SOUTHERLY RIGHT-OF-WAY LINE RUN NORTH 36°30'01" WEST ALONG SAID EASTERLY LINE AND SAID WESTERLY RIGHT-OF-WAY LINE FOR A DISTANCE OF 50.08 FEET TO A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF SAID SILVERLAKE PARK DRIVE; THENCE DEPARTING SAID EASTERLY LINE AND SAID WESTERLY RIGHT-OF-WAY LINE RUN SOUTH 53°29'58" WEST ALONG SAID NORTHERLY RIGHT-OF-WAY LINE FOR A DISTANCE OF 177.79 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 5.00 FEET, A CHORD BEARING OF NORTH 81°30'01" WEST AND A CHORD LENGTH OF 7.07 FEET; THENCE DEPARTING SAID NORTHERLY RIGHT-OF-WAY LINE RUN NORTHWESTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 90°00'00" FOR AN ARC DISTANCE OF 7.85 FEET TO A POINT OF TANGENCY; THENCE RUN NORTH 36°30'01" WEST FOR A DISTANCE OF 297.20 FEET TO THE POINT OF BEGINNING; THENCE RUN NORTH 36°30'01" WEST FOR A DISTANCE OF 776.51 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 321.50 FEET, A CHORD BEARING OF NORTH 39°25'58" WEST AND A CHORD LENGTH OF 32.90 FEET; THENCE RUN NORTHWESTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 5°51'54" FOR AN ARC DISTANCE OF 32.91 FEET; THENCE RUN NORTH 43°10'29" EAST FOR A DISTANCE OF 228.47 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF AFORESAID SECTION 36; THENCE RUN NORTH 89°39'18" EAST ALONG SAID NORTH LINE FOR A DISTANCE OF 235.36 FEET TO A POINT ON THE AFORESAID WESTERLY LINE OF REAMS ROAD REALIGNMENT CORRIDOR, ALSO BEING A POINT ON A NON-TANGENT CURVE CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 610.75 FEET, A CHORD BEARING OF SOUTH 20°01'14" EAST AND A CHORD LENGTH OF 351.71 FEET; THENCE RUN SOUTHEASTERLY ALONG SAID WESTERLY LINE AND SAID CURVE THROUGH A CENTRAL ANGLE OF 33°28'07" FOR AN ARC DISTANCE OF 356.76 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 36°45'17" EAST FOR A DISTANCE OF 374.19 FEET; THENCE DEPARTING SAID WESTERLY LINE RUN SOUTH 53°29'59" WEST FOR A DISTANCE OF 315.02 FEET TO AFORESAID POINT OF BEGINNING.

CONTAINS 6.28 ACRES MORE OR LESS.

TOGETHER WITH:

LEGAL DESCRIPTION OF A PORTION OF LAKESIDE VILLAGE PARK PARCEL (SITE 1)

A PARCEL OF LAND LOCATED IN SECTION 36, TOWNSHIP 23 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 10225 AT PAGE 3122 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION 36; THENCE N 89°29'49" E, ALONG THE NORTH LINE OF SAID NORTHEAST 1/4, A DISTANCE OF 674.05 FEET; THENCE DEPARTING SAID NORTH LINE RUN S 20°00'00" E, A DISTANCE OF 212.54 FEET; THENCE RUN S39°06'54" W, A DISTANCE OF 25.95 FEET; THENCE RUN S 20°00'00" E, A DISTANCE OF 77.16 FEET; THENCE RUN S 79°06'54" E, A DISTANCE OF 25.95 FEET; THENCE RUN S 20°00'00" E, A DISTANCE 556.19 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE TO THE WEST AND THE POINT OF BEGINNING; THENCE RUN SOUTHERLY ALONG SAID CURVE TO THE RIGHT HAVING A RADIUS OF 498.25 FEET, A CENTRAL ANGLE OF 36°11'45" AN ARC DISTANCE OF 314.76 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE CONCAVE TO THE EAST WHERE THE CHORD BEARS S01°54'08" E A DISTANCE OF 309.56 FEET; THENCE RUN SOUTHERLY ALONG SAID CURVE TO THE LEFT HAVING A RADIUS OF 610.75 FEET, A CENTRAL ANGLE OF 19°28'57", AN ARC DISTANCE OF 207.68 FEET TO THE SOUTH LINE OF THE NORTH 1/4 OF SAID NORTHEAST 1/4 WHERE THE CHORD BEARS S 06°27'19" W A DISTANCE OF 206.68 FEET; THENCE DEPARTING SAID CURVE, RUN S89°39'18" W, ALONG SAID SOUTH LINE, A DISTANCE OF 304.10 FEET TO THE EAST LINE OF THE WEST 663.82 FEET OF THE NORTH 1/2 OF SAID NORTHEAST 1/4; THENCE DEPARTING SAID SOUTH LINE, RUN N 00°21'59" E, ALONG SAID EAST LINE, A DISTANCE OF 25.00 FEET; THENCE RUN S 89° 39'18" W, PARALLEL WITH AND 25.00 FEET NORTH OF SAID SOUTH LINE, A DISTANCE OF 128.68 FEET; THENCE RUN N 63°28'49" E, A DISTANCE OF 9.03 FEET; THENCE RUN N 55°09'51" E, A DISTANCE OF 46.02 FEET; THENCE RUN N 55°50'08" E, A DISTANCE OF 52.78 FEET; THENCE RUN N 57°07'00" E, A DISTANCE OF 65.84 FEET; THENCE RUN N 37°27'22" E, A DISTANCE OF 41.14 FEET; THENCE RUN N 06°48'49" E, A DISTANCE OF 71.09 FEET; THENCE RUN N 06°29'59" E, A DISTANCE OF 69.35 FEET; THENCE RUN N 13°49'49" W, A DISTANCE OF 67.31 FEET; THENCE RUN N 58°56' 34 E, A DISTANCE OF 32.63 FEET TO THE WEST BOUNDARY OF LOT 1, CROSSWATER AT LAKESIDE VILLAGE, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 76 AT PAGE 131 OF SAID PUBLIC RECORDS; THENCE RUN S 20°00'00" E, ALONG SAID WEST BOUNDARY, A DISTANCE OF 49.90 FEET TO THE SOUTH BOUNDARY OF SAID PLAT; THENCE RUN N 70°00'00" E, ALONG SAID SOUTH BOUNDARY, A DISTANCE OF 257.12 FEET TO A POINT ON THE EAST BOUNDARY OF SAID PLAT, SAID POINT LYING ON A NON-TANGENT CURVE CONCAVE TO THE WEST; THENCE NORTHERLY ALONG SAID EAST BOUNDARY AND ALONG SAID CURVE TO THE LEFT HAVING A RADIUS OF 484.25 FEET, A CENTRAL ANGLE OF 114°47'31", AN ARC DISTANCE OF 89.66 FEET WHERE THE CHORD BEARS N 14° 08'15" W A DISTANCE OF 99.49 FEET; THENCE DEPARTING SAID EAST BOUNDARY, RUN N 70°02'46" E, A DISTANCE OF 14.00 FEET TO THE POINT OF BEGINNING.

CONTAINS 2.65 ACRES, MORE OR LESS

TOTAL AREA OF LANDS SURVEYED: 8.93 ACRES, MORE OR LESS

JERRY L. DEMINGS

COUNTY MAYOR

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

BETSY VANDERLEY

DISTRICT 1

CHRISTINE MOORE

DISTRICT 2

MAYRA URIBE

DISTRICT 3

MARIBEL GOMEZ CORDERO

DISTRICT 4

EMILY BONILLA

DISTRICT 5

VICTORIA P. SIPLIN

DISTRICT 6

INDEX OF DRAWINGS

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- C201 -GRADING & DRAINAGE PLAN
- C301 -UTILITY PLAN
- C401 -SITE DETAILS
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- C403 -HARDSCAPE/PLAYGROUND PLAN & DETAILS
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- C406 -EXERCISE EQUIP. PLAN & DETAILS
- C407 -HARDSCAPE PLAN - PICNIC AREA
- C408 -PLAYGROUND RENDERINGS
- C409 -ORANGE COUNTY UTILITY DETAILS

**OWNER**

ORANGE COUNTY CAPITAL PROJECTS  
400 E. SOUTH ST., 5TH FLOOR  
ORLANDO, FL 32801  
(407) 836-0050

**PLANNERS + ENGINEERS**

SK CONSORTIUM, INC.  
1053 N. ORLANDO AVE., SUITE 3  
MAITLAND, FL 32751  
(407) 629-4288

**SURVEYOR**

AMEC FOSTER WHEELER ENVIRONMENTAL & INFRASTRUCTURE, INC.  
75 E. AMELIA ST., SUITE 200  
ORLANDO, FL 32801  
(407) 522-7570

**UTILITY PROVIDERS**

ELECTRIC - DUKE ENERGY  
WATER - OC UTILITIES  
SEWER- OC UTILITIES  
RECLAIM - OC UTILITIES



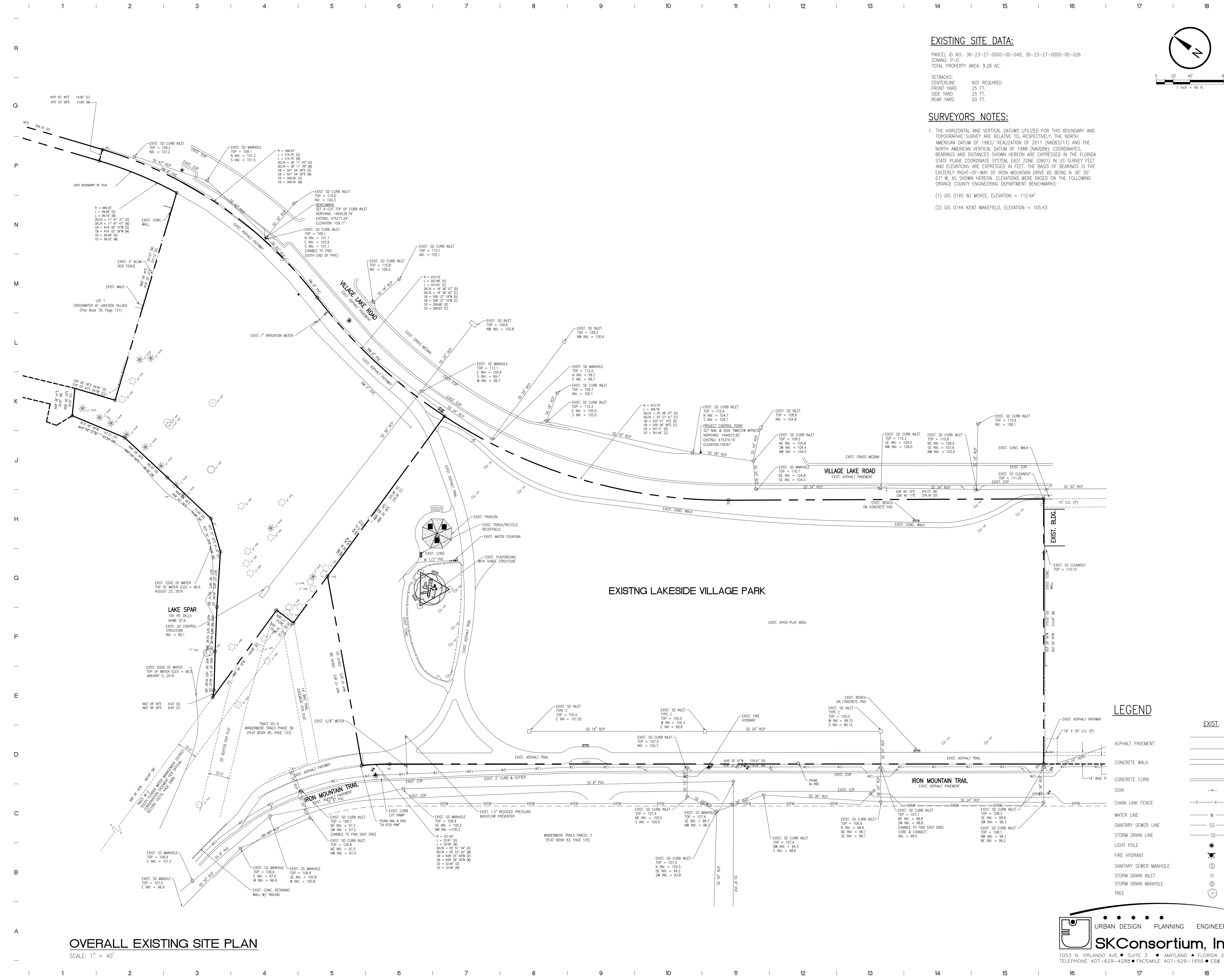
ARCHITECTURAL GROUP, INC.  
5032 GODDARD AVENUE  
ORLANDO, FLORIDA 32804  
(407) 245-3660 FAX: (407) 245-3662

URBAN DESIGN PLANNING ENGINEERING

**SK Consortium, Inc.**

1053 N. ORLANDO AVE. ■ SUITE 3 ■ MAITLAND ▲ FLORIDA 32751  
TELEPHONE 407-629-4288 ■ FACSIMILE 407-629-1656 ● EB# 7080

90% SUBMITTAL 10-19-18  
60% RESUBMITTAL 1-18-19  
90% RESUBMITTAL 5-8-19  
100% SUBMITTAL 6-6-19



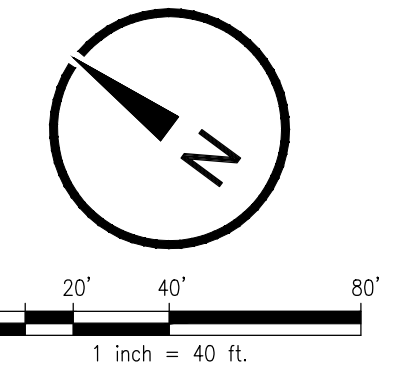
**EXISTING SITE DATA:**

PARCEL ID NO.: 36-23-27-0000-00-040, 36-23-27-0000-00-026  
 ZONING: P-D  
 TOTAL PROPERTY AREA: 9.28 AC.

SETBACKS:  
 CENTERLINE NOT REQUIRED  
 FRONT YARD 25 FT.  
 SIDE YARD 25 FT.  
 REAR YARD 50 FT.

**SURVEYORS NOTES:**

1. THE HORIZONTAL AND VERTICAL DATUMS UTILIZED FOR THIS BOUNDARY AND TOPOGRAPHIC SURVEY ARE RELATIVE TO, RESPECTIVELY, THE NORTH AMERICAN DATUM OF 1983 / REALIZATION OF 2011 (NAD83/11) AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). COORDINATES, BEARINGS AND DISTANCES SHOWN HEREON ARE EXPRESSED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901) IN US SURVEY FEET AND ELEVATIONS ARE EXPRESSED IN FEET. THE BASIS OF BEARINGS IS THE EASTERLY RIGHT-OF-WAY OF IRON MOUNTAIN DRIVE AS BEING N 36° 30' 01" W, AS SHOWN HEREON. ELEVATIONS WERE BASED ON THE FOLLOWING ORANGE COUNTY ENGINEERING DEPARTMENT BENCHMARKS:  
 (1) GIS 0145 BJ MCKEE, ELEVATION = 112.64'  
 (2) GIS 0144 KENT WAKEFIELD, ELEVATION = 105.43'



**ARCHITECTURAL GROUP, INC.**  
 320 E. SOUTH STREET, SUITE 150  
 ORLANDO, FLORIDA 32801  
 (407) 245-3660 FAX: (407) 245-3662

FL LIC. # AA0002264  
 PROJECT TITLE AND OWNERS NAME

**ORANGE COUNTY  
 LAKESIDE  
 VILLAGE PARK  
 PHASE II**



CONSULTANTS

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SEAL AND SIGNATURE

---

Seal: Majid Kalaghchi P.E. 41046

REVISIONS

90% SUBMITTAL	10-2-18
RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
90% RESUBMITTAL	5-8-19
100% SUBMITTAL	6-6-19

**LEGEND**

- ASPHALT PAVEMENT
- CONCRETE WALK
- CONCRETE CURB
- SIGN
- CHAIN LINK FENCE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- LIGHT POLE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- TREE

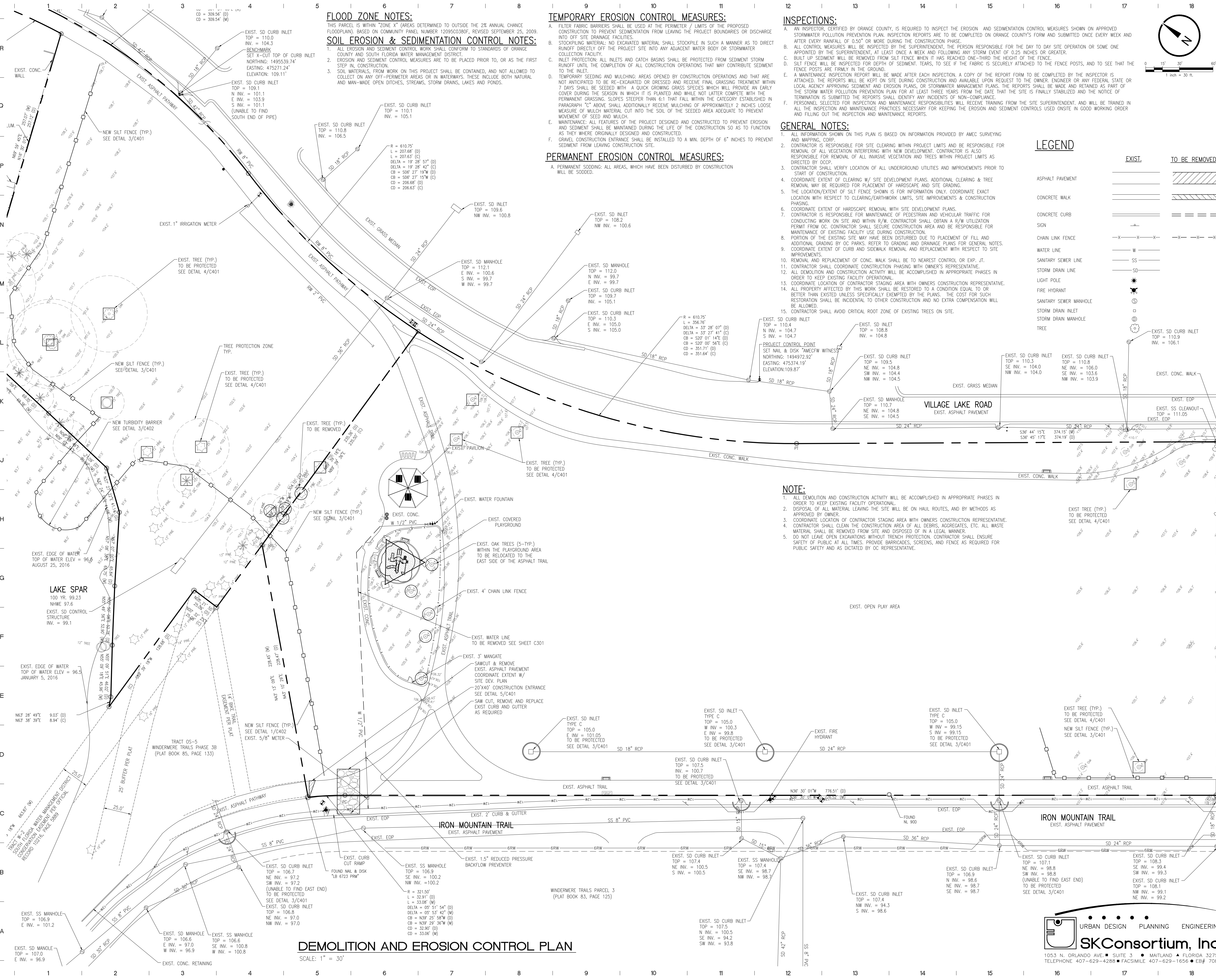
**OVERALL EXISTING SITE PLAN**

SCALE: 1" = 40'

URBAN DESIGN PLANNING ENGINEERING  
**SK Consortium, Inc.**  
 1053 N. ORLANDO AVE., SUITE 3 • MAITLAND • FLORIDA 32751  
 TELEPHONE 407-629-4288 • FACSIMILE 407-629-1656 • EBF 7080

DRAWING NUMBER  
**C001**

SHEET OF  
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**FLOOD ZONE NOTES:**

THIS PARCEL IS WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN), BASED ON COMMUNITY PANEL NUMBER 1209503807, REVISED SEPTEMBER 25, 2009. COUNTY AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

**SOIL EROSION & SEDIMENTATION CONTROL NOTES:**

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS OF ORANGE COUNTY AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION.
3. SOIL MATERIALS, FROM WORK ON THIS PROJECT SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.

**TEMPORARY EROSION CONTROL MEASURES:**

- A. FILTER FABRIC BARRIERS SHALL BE USED AT THE PERIMETER / LIMITS OF THE PROPOSED CONSTRUCTION TO PREVENT SEDIMENTATION FROM LEAVING THE PROJECT BOUNDARIES OR DISCHARGE INTO OFF SITE DRAINAGE FACILITIES.
- B. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL STOCKPILE IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- C. INLET PROTECTION: ALL INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- D. TEMPORARY SEEDING AND MULCHING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 7 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WHILE NOT LATTER COMPLETE WITH THE PERMANENT GRASSING. SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH "C" ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF MULCH AND MULCH.
- E. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- F. GRAVEL CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO A MIN. DEPTH OF 6" INCHES TO PREVENT SEDIMENT FROM LEAVING CONSTRUCTION SITE.

**PERMANENT EROSION CONTROL MEASURES:**

- A. PERMANENT SODDING: ALL AREAS, WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SODDED.

**INSPECTIONS:**

- A. AN INSPECTOR, CERTIFIED BY ORANGE COUNTY, IS REQUIRED TO INSPECT THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON APPROVED STORMWATER POLLUTION PREVENTION PLAN. INSPECTION REPORTS ARE TO BE COMPLETED ON ORANGE COUNTY'S FORM AND SUBMITTED ONCE EVERY WEEK AND AFTER EVERY RAINFALL OF 0.50" OR MORE DURING THE CONSTRUCTION PHASE.
- B. ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOME ONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
- C. SILT FENCE WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- D. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, 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.
- E. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- F. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT, AND WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER AND FILING OUT THE INSPECTION AND MAINTENANCE REPORTS.

**GENERAL NOTES:**

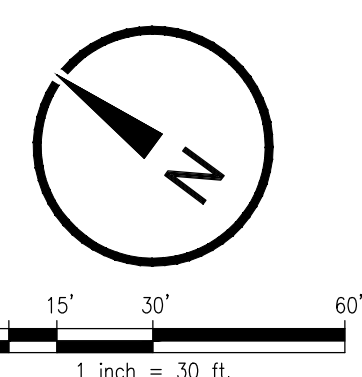
1. ALL INFORMATION SHOWN ON THIS PLAN IS BASED ON INFORMATION PROVIDED BY AMEC SURVEYING AND MAPPING, CORP.
2. CONTRACTOR IS RESPONSIBLE FOR SITE CLEARING WITHIN PROJECT LIMITS AND IS ALSO RESPONSIBLE FOR REMOVAL OF ALL VEGETATION INTERFERING WITH NEW DEVELOPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVAL OF ALL INVASIVE VEGETATION AND TREES WITHIN PROJECT LIMITS AS DIRECTED BY OCCP.
3. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
4. COORDINATE EXTENT OF CLEARING W/ SITE DEVELOPMENT PLANS. ADDITIONAL CLEARING & TREE REMOVAL MAY BE REQUIRED FOR PLACEMENT OF HARDSCAPE AND SITE GRADING.
5. THE LOCATION/EXTENT OF SILT FENCE SHOWN IS FOR INFORMATION ONLY. COORDINATE EXACT LOCATION WITH RESPECT TO CLEARING/EARTHWORK LIMITS, SITE IMPROVEMENTS & CONSTRUCTION PHASING.
6. COORDINATE EXTENT OF HARDSCAPE REMOVAL WITH SITE DEVELOPMENT PLANS.
7. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PEDESTRIAN AND VEHICULAR TRAFFIC FOR CONDUCTING WORK ON SITE AND WITHIN R/W. CONTRACTOR SHALL OBTAIN A R/W UTILIZATION PERMIT FROM OC. CONTRACTOR SHALL SECURE CONSTRUCTION AREA AND BE RESPONSIBLE FOR MAINTENANCE OF EXISTING FACILITY USE DURING CONSTRUCTION.
8. ADDITIONAL GRADING BY OC PARKS, REFER TO GRADING AND DRAINAGE PLANS FOR GENERAL NOTES.
9. COORDINATE EXTENT OF CURB AND SIDEWALK REMOVAL AND REPLACEMENT WITH RESPECT TO SITE IMPROVEMENTS.
10. REMOVAL AND REPLACEMENT OF CONC. WALK SHALL BE TO NEAREST CONTROL OR EXP. JT.
11. CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH OWNER'S REPRESENTATIVE.
12. ALL DEMOLITION AND CONSTRUCTION ACTIVITY WILL BE ACCOMPLISHED IN APPROPRIATE PHASES IN ORDER TO KEEP EXISTING FACILITY OPERATIONAL.
13. COORDINATE LOCATION OF CONTRACTOR STAGING AREA WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
14. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
15. CONTRACTOR SHALL AVOID CRITICAL ROOT ZONE OF EXISTING TREES ON SITE.

**LEGEND**

	EXIST.	TO BE REMOVED.
ASPHALT PAVEMENT		
CONCRETE WALK		
CONCRETE CURB		
SIGN		
CHAIN LINK FENCE		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
LIGHT POLE		
FIRE HYDRANT		
SANITARY SEWER MANHOLE		
STORM DRAIN INLET		
STORM DRAIN MANHOLE		
TREE		

**NOTE:**

1. ALL DEMOLITION AND CONSTRUCTION ACTIVITY WILL BE ACCOMPLISHED IN APPROPRIATE PHASES IN ORDER TO KEEP EXISTING FACILITY OPERATIONAL.
2. DISPOSAL OF ALL MATERIAL LEAVING THE SITE WILL BE ON HAUL ROUTES, AND BY METHODS AS APPROVED BY OWNER.
3. COORDINATE LOCATION OF CONTRACTOR STAGING AREA WITH OWNER'S CONSTRUCTION REPRESENTATIVE.
4. CONTRACTOR SHALL CLEAN THE CONSTRUCTION AREA OF ALL DEBRIS, AGGREGATES, ETC. ALL WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
5. DO NOT LEAVE OPEN EXCAVATIONS WITHOUT TRENCH PROTECTION. CONTRACTOR SHALL ENSURE SAFETY OF PUBLIC AT ALL TIMES. PROVIDE BARRICADES, SCREENS, AND FENCE AS REQUIRED FOR PUBLIC SAFETY AND AS DICTATED BY OC REPRESENTATIVE.



**mri**  
**ARCHITECTURAL GROUP, INC.**  
 320 E. SOUTH STREET, SUITE 150  
 ORLANDO, FLORIDA 32801  
 (407) 245-3660 FAX: (407) 245-3662  
 FL LIC. # AA0002264  
 PROJECT TITLE AND OWNERS NAME

**ORANGE COUNTY LAKESIDE VILLAGE PARK PHASE II**

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalagchi P.E. 41046

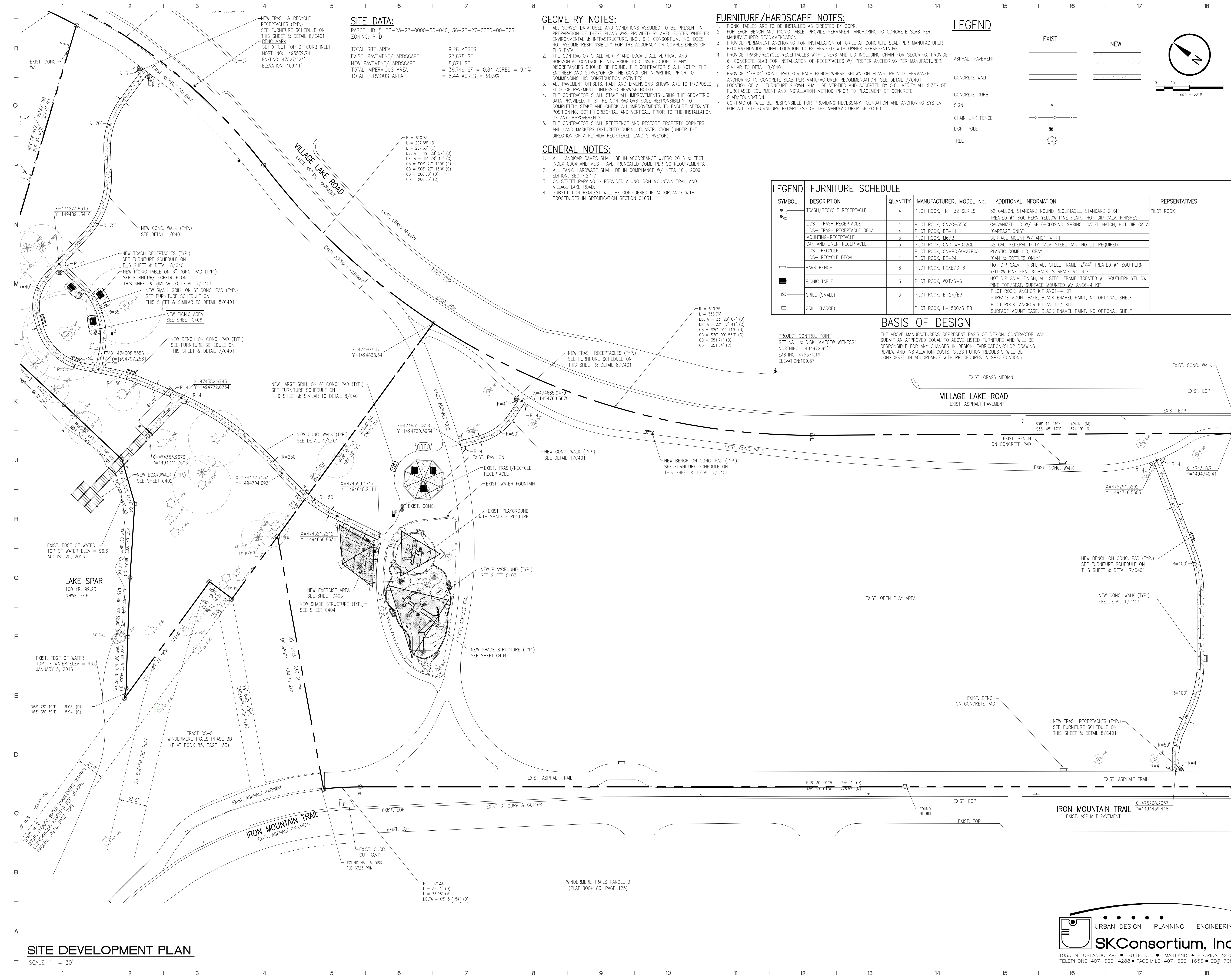
REVISIONS
90% SUBMITTAL 10-2-18
RESUBMIT 60% CONSTRUCTION DOCS 1-22-19
90% RESUBMITTAL 5-8-19
100% SUBMITTAL 6-6-19

DRAWN BY: D. FORSYTH  
 CHECKED BY: M. KALAGCHI  
 JOB NUMBER: 1858  
 DATE: XXXX  
 DRAWING TITLE: DEMOLITION AND EROSION CONTROL PLAN  
 DRAWING NUMBER: C002

URBAN DESIGN PLANNING ENGINEERING  
**SKConsortium, Inc.**  
 1053 N. ORLANDO AVE., SUITE 3 • MAITLAND • FLORIDA 32751  
 TELEPHONE 407-629-4288 • FACSIMILE 407-629-1656 • E#9 7080

**DEMOLITION AND EROSION CONTROL PLAN**

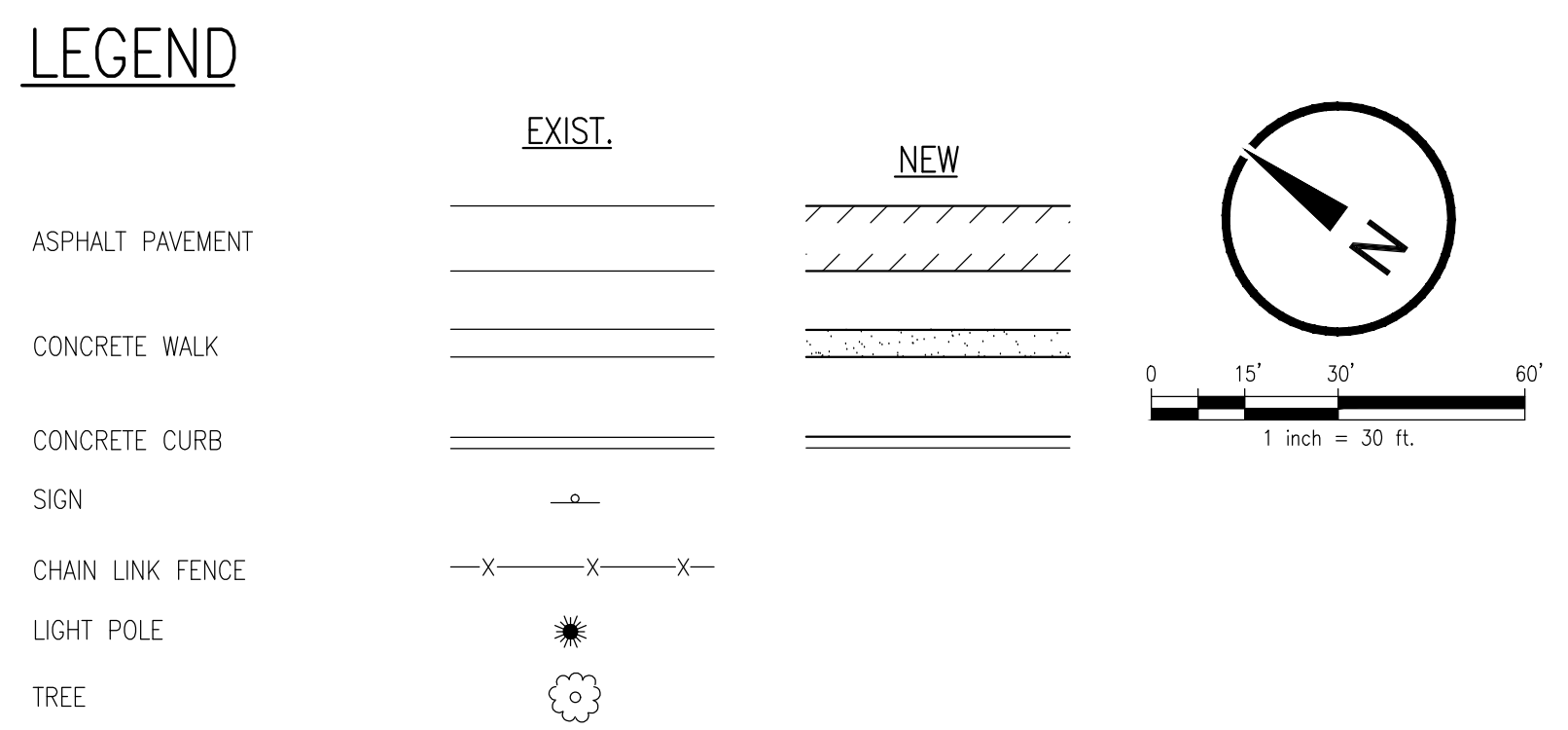
SCALE: 1" = 30'



**SITE DATA:**  
 PARCEL ID #: 36-23-27-0000-00-040, 36-23-27-0000-00-026  
 ZONING: P-D  
 TOTAL SITE AREA = 9.28 ACRES  
 EXIST. PAVEMENT/HARDSCAPE = 27,876 SF  
 NEW PAVEMENT/HARDSCAPE = 8,871 SF  
 TOTAL IMPERVIOUS AREA = 36,749 SF = 0.84 ACRES = 9.1%  
 TOTAL PERVIOUS AREA = 8.44 ACRES = 90.9%

**GEOMETRY NOTES:**  
 1. ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY AMEC FOSTER WHEELER ENVIRONMENTAL & INFRASTRUCTURE, INC., S.K. CONSORTIUM, INC. DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS DATA.  
 2. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.  
 3. ALL PAVEMENT OFFSETS, RADII AND DIMENSIONS SHOWN ARE TO PROPOSED EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.  
 4. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.  
 5. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION (UNDER THE DIRECTION OF A FLORIDA REGISTERED LAND SURVEYOR).

**FURNITURE/HARDSCAPE NOTES:**  
 1. PICNIC TABLES ARE TO BE INSTALLED AS DIRECTED BY OCPR.  
 2. FOR EACH BENCH AND PICNIC TABLE, PROVIDE PERMANENT ANCHORING TO CONCRETE SLAB PER MANUFACTURER RECOMMENDATION.  
 3. PROVIDE PERMANENT ANCHORING FOR INSTALLATION OF GRILL AT CONCRETE SLAB PER MANUFACTURER RECOMMENDATION. FINAL LOCATION TO BE VERIFIED WITH OWNER REPRESENTATIVE.  
 4. PROVIDE TRASH/RECYCLE RECEPTACLES WITH LINERS AND LID INCLUDING CHAIN FOR SECURING. PROVIDE 6" CONCRETE SLAB FOR INSTALLATION OF RECEPTACLES W/ PROPER ANCHORING PER MANUFACTURER. SIMILAR TO DETAIL 8/C401.  
 5. PROVIDE 4"x8"x4" CONC. PAD FOR EACH BENCH WHERE SHOWN ON PLANS. PROVIDE PERMANENT ANCHORING TO CONCRETE SLAB PER MANUFACTURER RECOMMENDATION. SEE DETAIL 7/C401  
 6. LOCATION OF ALL FURNITURE SHOWN SHALL BE VERIFIED AND ACCEPTED BY O.C. VERIFY ALL SIZES OF PURCHASED EQUIPMENT AND INSTALLATION METHOD PRIOR TO PLACEMENT OF CONCRETE SLAB/FOUNDATION.  
 7. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING NECESSARY FOUNDATION AND ANCHORING SYSTEM FOR ALL SITE FURNITURE REGARDLESS OF THE MANUFACTURER SELECTED.



**mri**  
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 FL LIC. # AA0002264  
 PROJECT TITLE AND OWNERS NAME

**ORANGE COUNTY  
 LAKESIDE  
 VILLAGE PARK  
 PHASE II**

**GENERAL NOTES:**  
 1. ALL HANDICAP RAMP SHALL BE IN ACCORDANCE W/FBC 2016 & FDOT INDEX 0304 AND MUST HAVE TRUNCATED DOME PER OC REQUIREMENTS.  
 2. ALL PANIC HARDWARE SHALL BE IN COMPLIANCE W/ NFPA 101, 2009 EDITION, SEC 7.2.1.1.7  
 3. ON STREET PARKING IS PROVIDED ALONG IRON MOUNTAIN TRAIL AND VILLAGE LAKE ROAD.  
 4. SUBSTITUTION REQUEST WILL BE CONSIDERED IN ACCORDANCE WITH PROCEDURES IN SPECIFICATION SECTION 01631

**LEGEND FURNITURE SCHEDULE**

SYMBOL	DESCRIPTION	QUANTITY	MANUFACTURER, MODEL No.	ADDITIONAL INFORMATION	REPRESENTATIVES
TRASH/RECYCLE RECEPTACLE	TRASH/RECYCLE RECEPTACLE	4	PILOT ROCK, TRH-32 SERIES	32 GALLON, STANDARD ROUND RECEPTACLE, STANDARD 2"x4" TREATED #1 SOUTHERN YELLOW PINE SLATS, HOT-DIP GALV. FINISHES	PILOT ROCK
LIDS- TRASH RECEPTACLE	LIDS- TRASH RECEPTACLE	4	PILOT ROCK, CN/G-5555	GALVANIZED LID W/ SELF-CLOSING, SPRING LOADED HATCH, HOT DIP GALV	
LIDS- TRASH RECEPTACLE DECAL	LIDS- TRASH RECEPTACLE DECAL	4	PILOT ROCK, DE-11	GARBAGE ONLY	
CAN AND LINER-RECEPTACLE	CAN AND LINER-RECEPTACLE	5	PILOT ROCK, MB/R	SURFACE MOUNT W/ ANCI-4 KIT	
LIDS- RECYCLE	LIDS- RECYCLE	1	PILOT ROCK, CN-PD/A-27PC5	32 GAL. FEDERAL DUTY GALV. STEEL CAN, NO LID REQUIRED	
LIDS- RECYCLE DECAL	LIDS- RECYCLE DECAL	1	PILOT ROCK, DE-24	PLASTIC DOME LID, GRAY CAN & BOTTLES ONLY	
PARK BENCH	PARK BENCH	8	PILOT ROCK, PCXB/G-6	HOT DIP GALV. FINISH, ALL STEEL FRAME, 2"x4" TREATED #1 SOUTHERN YELLOW PINE SEAT & BACK, SURFACE MOUNTED	
PICNIC TABLE	PICNIC TABLE	3	PILOT ROCK, WX1/G-6	HOT DIP GALV. FINISH, ALL STEEL FRAME, TREATED #1 SOUTHERN YELLOW PINE TOP/SEAT, SURFACE MOUNTED W/ ANCI-4 KIT	
GRILL (SMALL)	GRILL (SMALL)	3	PILOT ROCK, B-24/B3	PILOT ROCK, ANCHOR KIT ANCI-4 KIT SURFACE MOUNT BASE, BLACK ENAMEL PAINT, NO OPTIONAL SHELF	
GRILL (LARGE)	GRILL (LARGE)	1	PILOT ROCK, L-1500/S B8	PILOT ROCK, ANCHOR KIT ANCI-4 KIT SURFACE MOUNT BASE, BLACK ENAMEL PAINT, NO OPTIONAL SHELF	

**BASIS OF DESIGN**  
 THE ABOVE MANUFACTURERS REPRESENT BASIS OF DESIGN. CONTRACTOR MAY SUBMIT AN APPROVED EQUAL TO ABOVE LISTED FURNITURE AND WILL BE RESPONSIBLE FOR ANY CHANGES IN DESIGN, FABRICATION/SHOP DRAWING REVIEW AND INSTALLATION COSTS. SUBSTITUTION REQUESTS WILL BE CONSIDERED IN ACCORDANCE WITH PROCEDURES IN SPECIFICATIONS.

**ORANGE COUNTY  
 GOVERNMENT  
 FLORIDA**

Seal: Majid Kaloghchi P.E. 41046

**REVISIONS**

01	90% SUBMITTAL 10-2-18
02	RESUBMIT 60% CONSTRUCTION DOCS 1-22-19
03	90% RESUBMITTAL 5-8-19
04	100% SUBMITTAL 6-6-19

DRAWN BY: D. FORSYTH  
 CHECKED BY: M. KALAGHCI  
 JOB NUMBER: 1858  
 DATE: XXX  
 DRAWING TITLE: SITE DEVELOPMENT PLAN  
 DRAWING NUMBER: C101

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FL LIC. # AA0002264  
PROJECT TITLE AND OWNERS NAME

# ORANGE COUNTY LAKESIDE VILLAGE PARK PHASE II

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalaghi P.E. 41046

REVISIONS
90% SUBMITTAL 10-2-18
RESUBMIT 60% CONSTRUCTION DOCS 1-22-19
90% RESUBMITTAL 5-8-19
100% SUBMITTAL 6-6-19

DRAWN BY: D. FORSYTH

CHECKED BY: M. KALAGHI

JOB NUMBER: 1858

DATE: XXXX

DRAWING TITLE: GRADING AND DRAINAGE PLAN

DRAWING NUMBER: C201

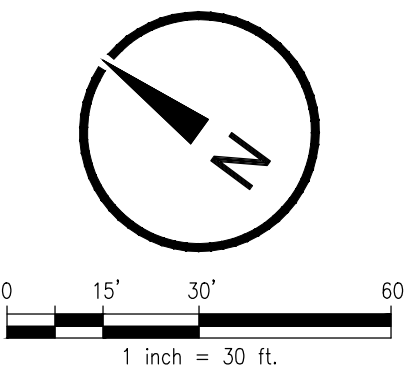
DRAWING NUMBER: C201

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### GRADING & DRAINAGE NOTES:

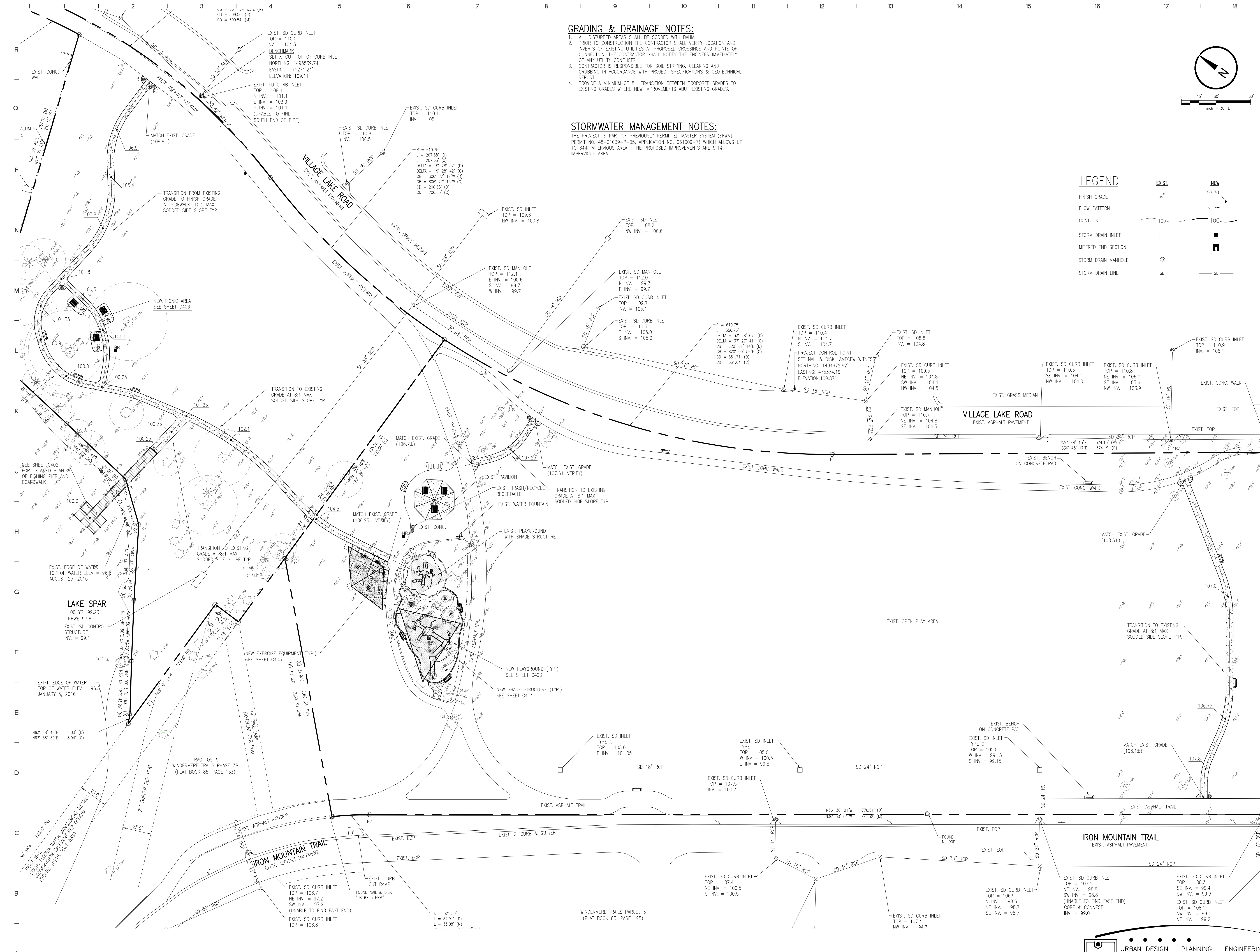
- ALL DISTURBED AREAS SHALL BE SODED WITH BAHIA.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES AT PROPOSED CROSSINGS AND POINTS OF CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITY CONFLICTS.
- CONTRACTOR IS RESPONSIBLE FOR SOIL STRIPPING, CLEARING AND GRUBBING IN ACCORDANCE WITH PROJECT SPECIFICATIONS & GEOTECHNICAL REPORT.
- PROVIDE A MINIMUM OF 8:1 TRANSITION BETWEEN PROPOSED GRADES TO EXISTING GRADES WHERE NEW IMPROVEMENTS ABUT EXISTING GRADES.

### STORMWATER MANAGEMENT NOTES:

THE PROJECT IS PART OF PREVIOUSLY PERMITTED MASTER SYSTEM (SFWMD PERMIT NO. 48-01039-P-05, APPLICATION NO. 061009-7) WHICH ALLOWS UP TO 64% IMPERVIOUS AREA. THE PROPOSED IMPROVEMENTS ARE 9.1% IMPERVIOUS AREA.

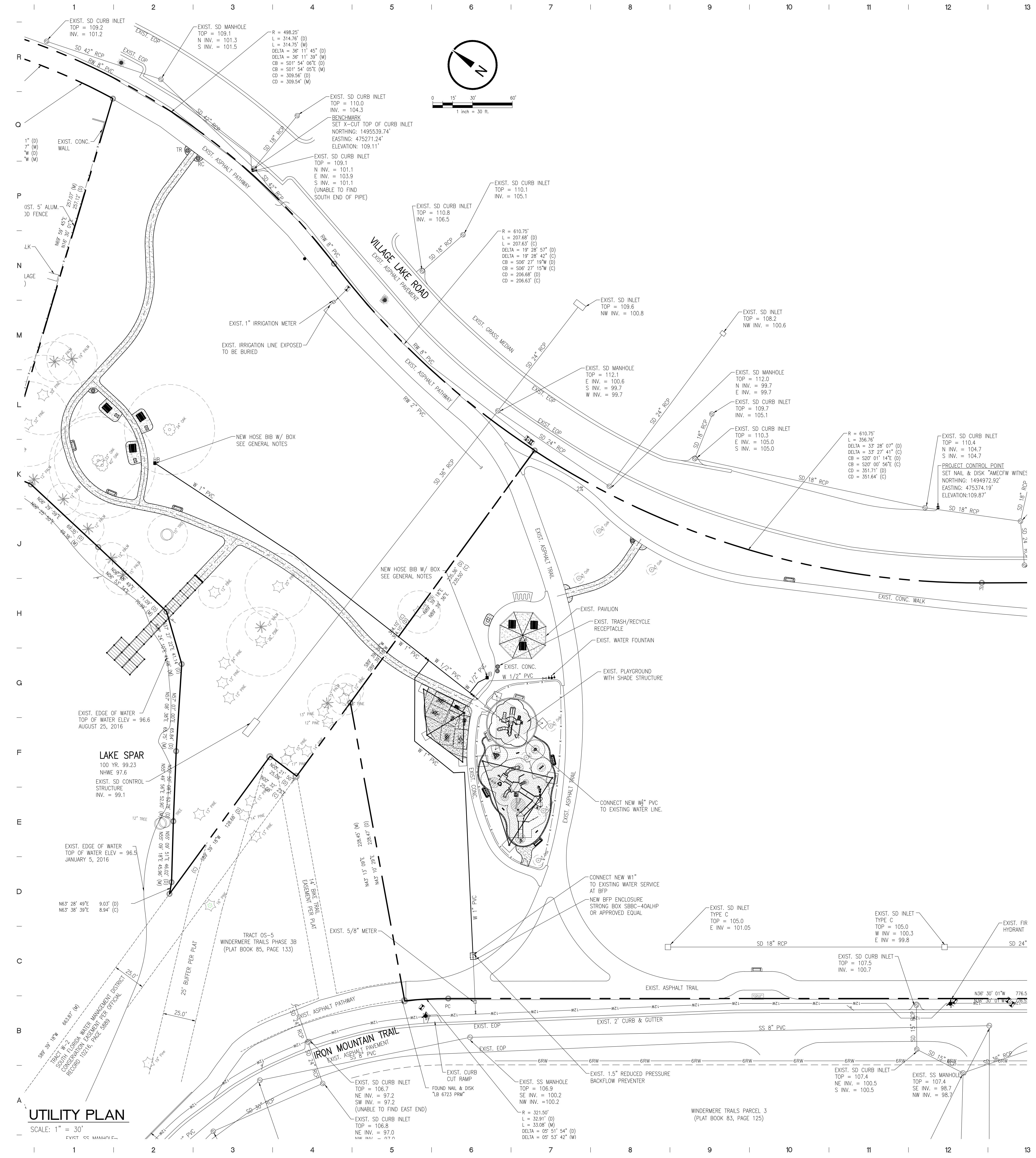
### LEGEND

EXIST.	NEW
FINISH GRADE	97.70
FLOW PATTERN	
CONTOUR	100
STORM DRAIN INLET	
MITERED END SECTION	
STORM DRAIN MANHOLE	
STORM DRAIN LINE	SD



## GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'



**GENERAL NOTES:**

- THE CONTRACTOR SHALL REVERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
- ALL DISTURBED AREAS MUST BE SODED W/ BAHIA.
- WHEN TRENCH EXCAVATION EXCEEDS (5) FEET IN DEPTH:
  - CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650.
  - THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH TRENCH SAFETY SYSTEM SHALL BE BY THE CONTRACTOR.
- ALL UTILITIES CONSTRUCTION CONNECTING TO THE OC UTILITY SYSTEM SHALL CONFORM TO ORANGE COUNTY STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL DATED FEB. 2011.
- THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH AWWA STANDARD CEO FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR
- THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE EXISTING AND NEW WATER DISTRIBUTION PRIOR TO PLACING IN SERVICE. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FDEP WATER PERMIT, AND RECEIVE APPROVAL PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS.
- A MINIMUM OF 3" OF COVER SHALL BE MAINTAINED OVER ALL WATER MAINS.
- MAGNETIC TAPE AND LOCATING WIRE SHALL BE INSTALLED WITH ALL NON METALLIC
- ON SITE WATER SYSTEM IS PRIVATELY OWNED AND MAINTAINED.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE FOLLOWING COMPANIES SHALL BE CONTACTED BY THE CONTRACTOR:
 

DUKE ENERGY 3300 EXCHANGE PLACE LAKE MARY FL 32746 PH. 407-942-9291	CALL SUNSHINE PH. 1-800-432-4770	ORANGE COUNTY UTILITIES 9150 CURRY FORD RD. ORLANDO, FL 32825 PH. 407-254-9900
--	-------------------------------------	---
- NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET AND PREFERABLY 10 FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC; THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND THE GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS ATLEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE. ALTERNATIVELY AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC.
- ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- ALL WATER FOUNTAINS SHALL RECEIVE 1/2" SERVICE CONNECTIONS.
- PROVIDE 12"x24" (MIN.) PLASTIC/CONCRETE BOX FOR HOSE BIBB ASSEMBLY. VERIFY BOX TO ENSURE PROPER OPERATION OF HOSE BIBB. ALL HOSE BIBB ASSEMBLY WILL BE EQUIPPED WITH VACUUM BREAKER & QUICK DISCONNECT.



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FL LIC. # AA002284  
PROJECT TITLE AND OWNERS NAME

**ORANGE COUNTY  
LAKESIDE  
VILLAGE PARK  
PHASE II**

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalagchi P.E. 41046

REVISIONS	DATE
90% SUBMITTAL	10-2-18
RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
90% RESUBMITTAL	5-8-19
100% SUBMITTAL	6-6-19

DRAWN BY  
D. FORSYTH

CHECKED BY  
M. KALAGCHI

JOB NUMBER  
1858

DATE  
XXX

DRAWING TITLE  
UTILITY PLAN

DRAWING NUMBER  
C301

**LEGEND**

	EXIST.	NEW
WATER LINE	— W —	— W —
SANITARY SEWER LINE	— SS —	— SS —
FORCE MAIN	— FM —	— FM —
WATER VALVE	⊗	⊗
CLEAN-OUT	⊙	⊙
SANITARY SEWER MANHOLE	⊙	⊙
FIRE HYDRANT	⊗	⊗
LIGHT POLE	⊗	⊗

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ORANGE COUNTY  
LAKESIDE  
VILLAGE PARK  
PHASE II

CONSULTANTS



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PER OWNER 2-9-18

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M. KALAGHCHI

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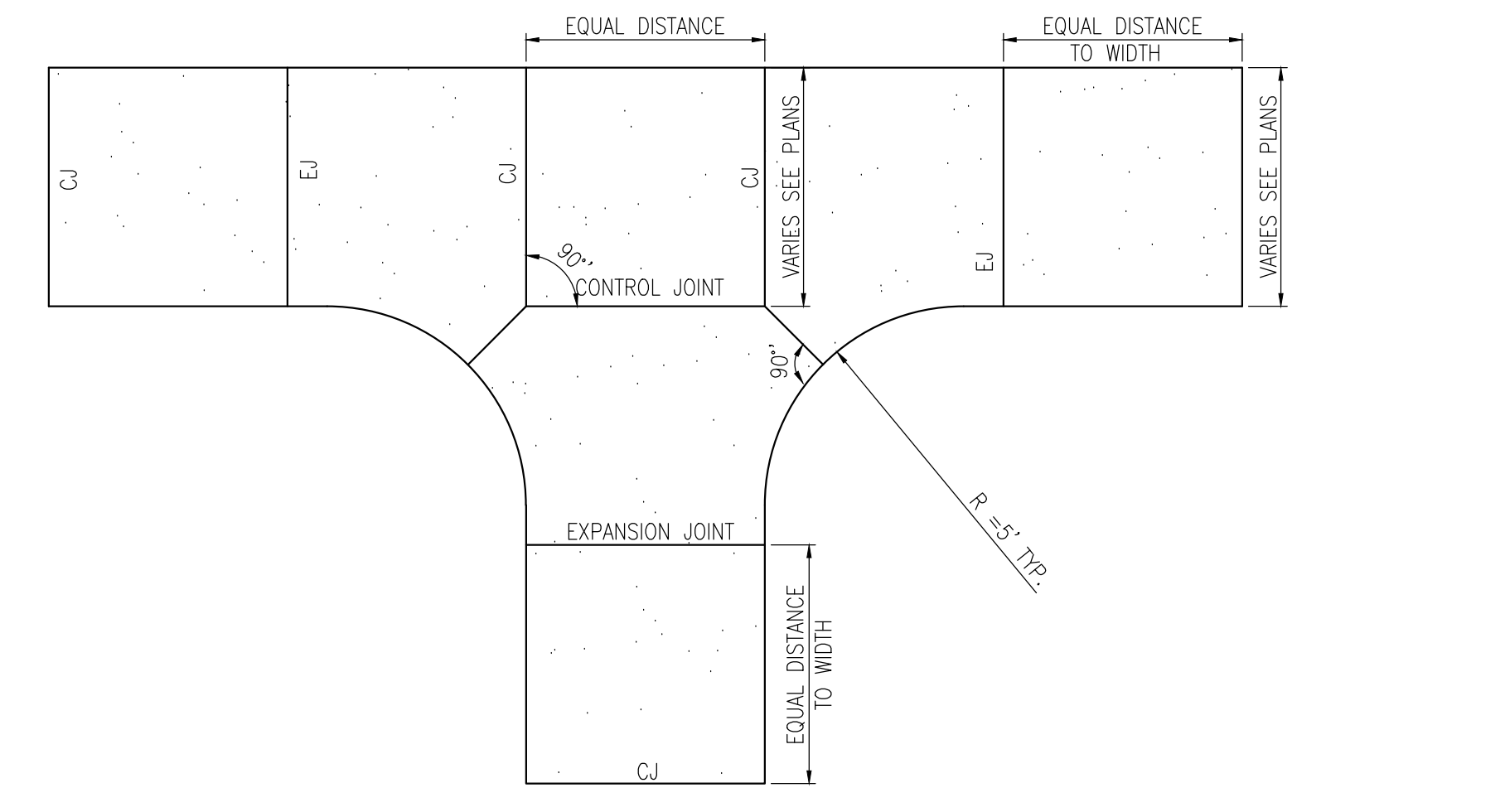
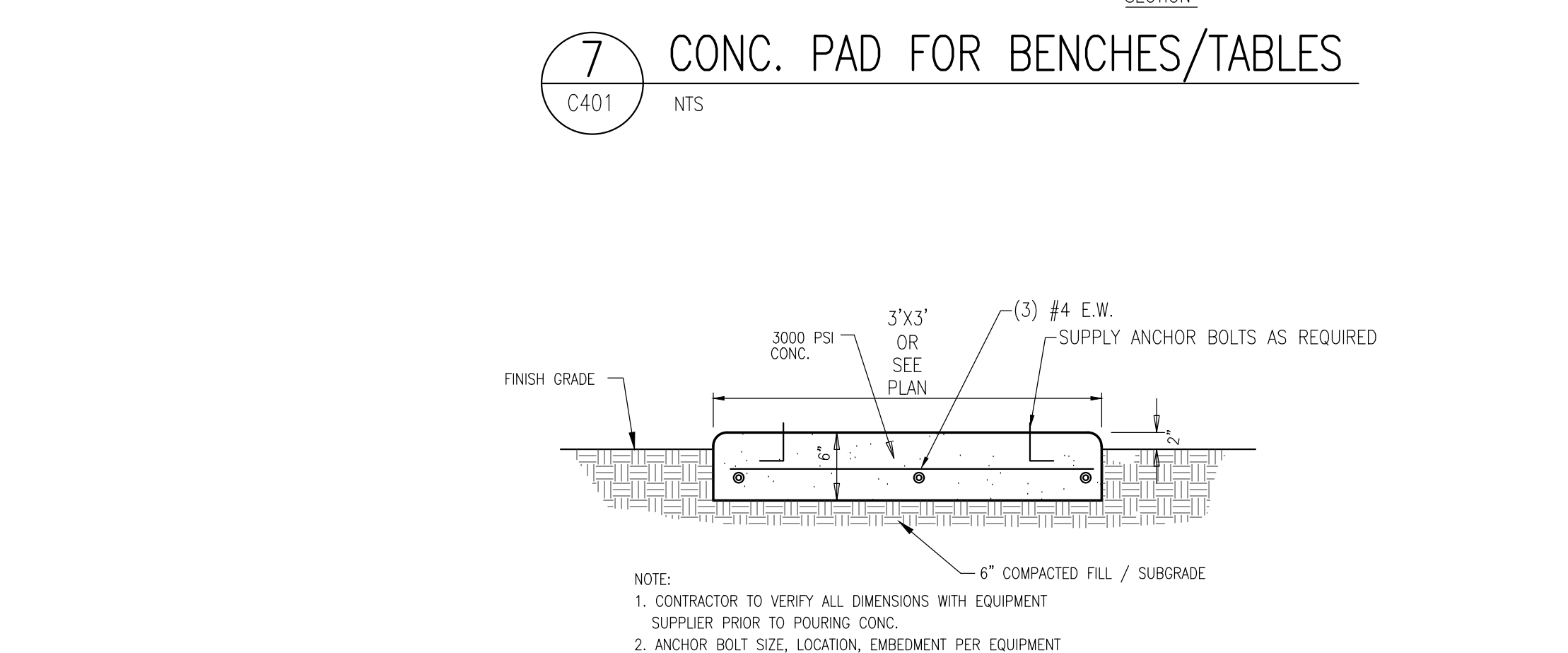
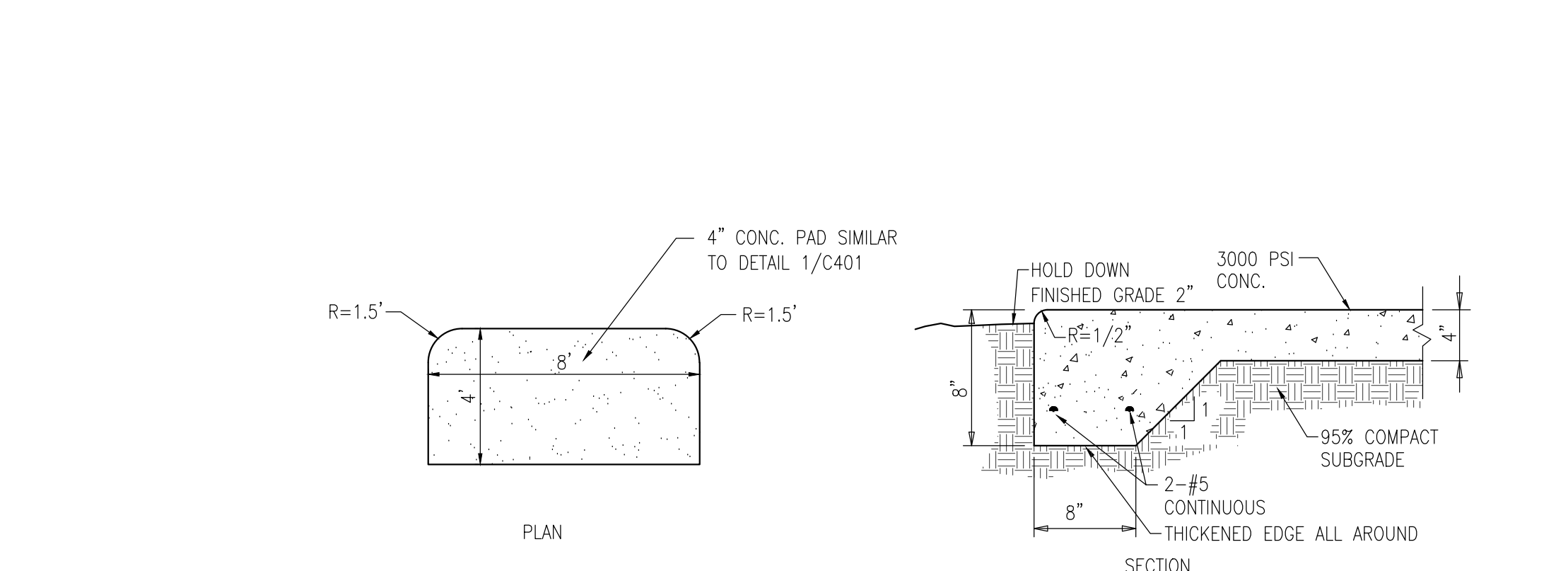
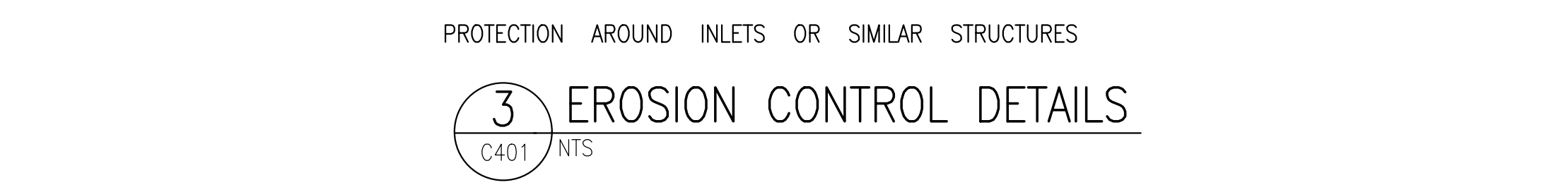
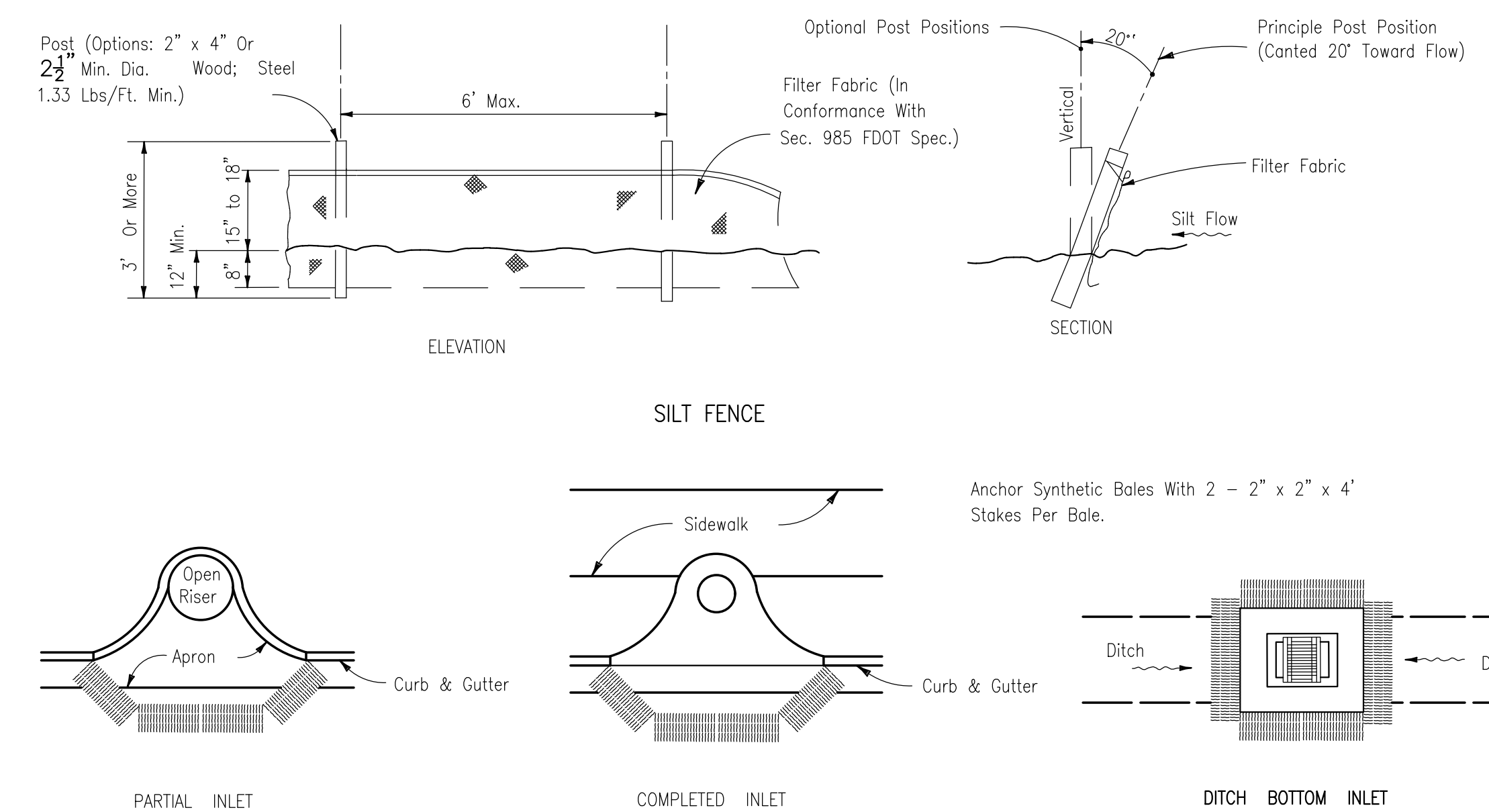
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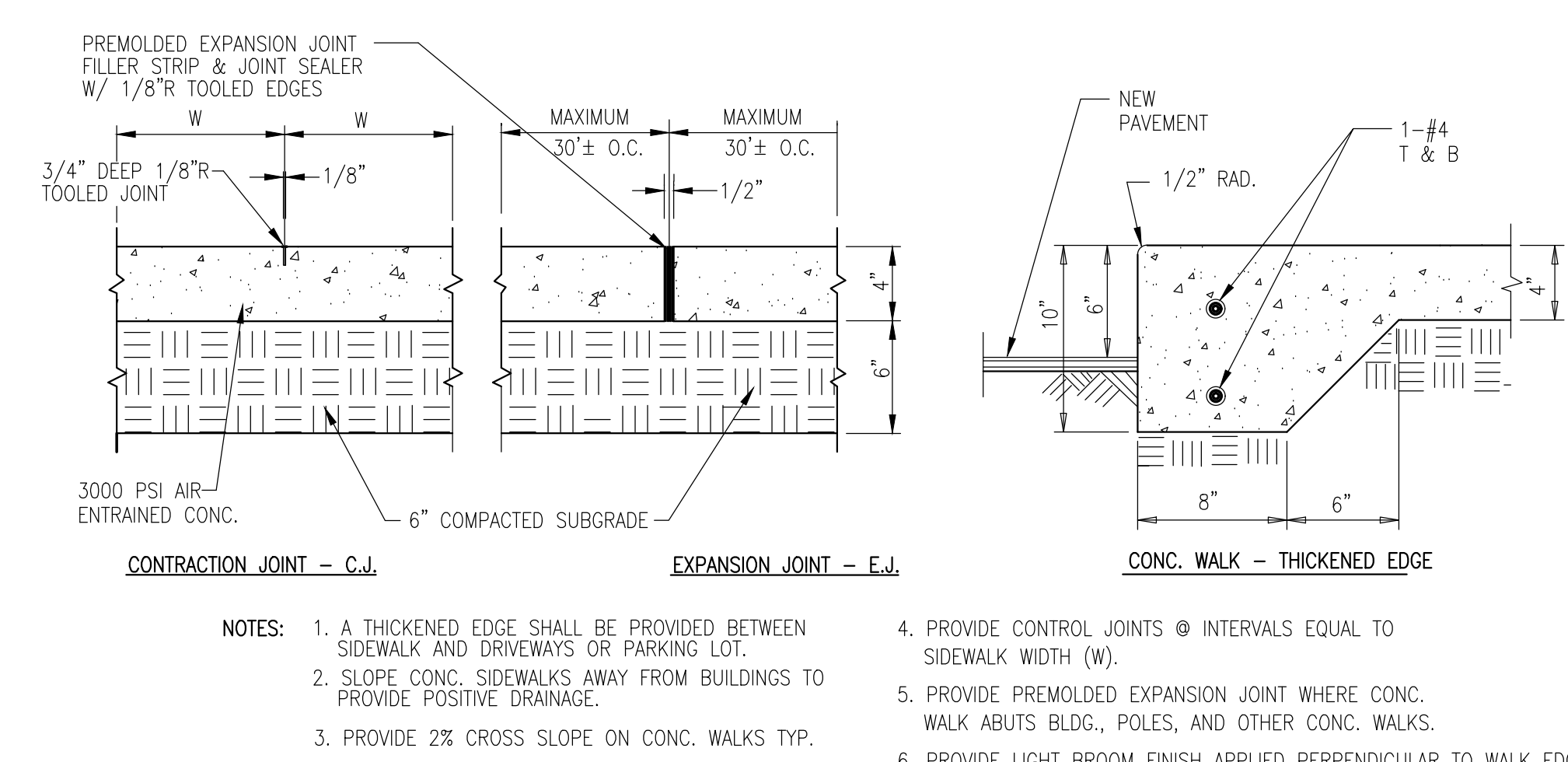
SITE DETAILS

DRAWING NUMBER

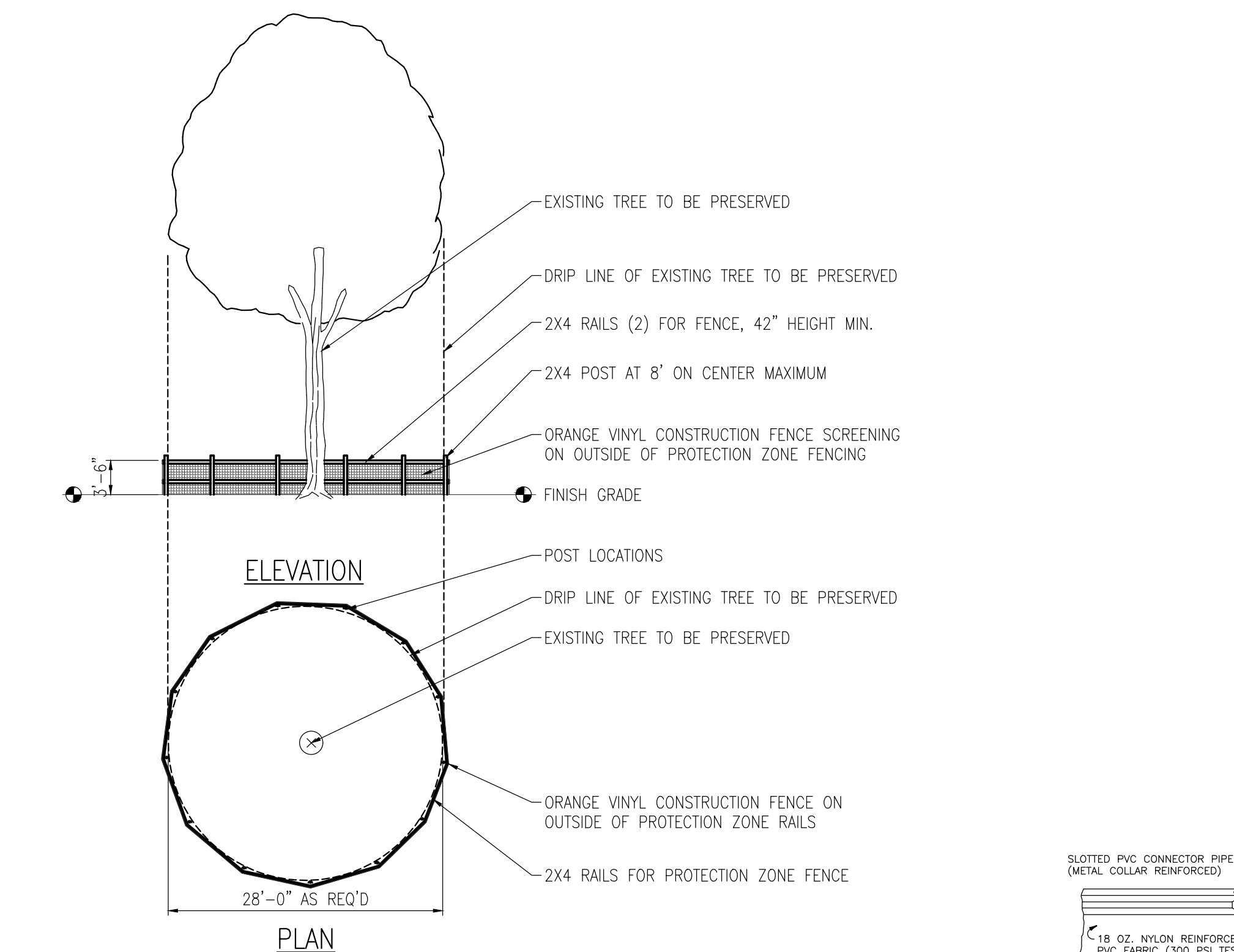
C401



2 TYPICAL CONNECTION & JOINT LAYOUT @ WALK INTERSECTIONS  
C401 NTS

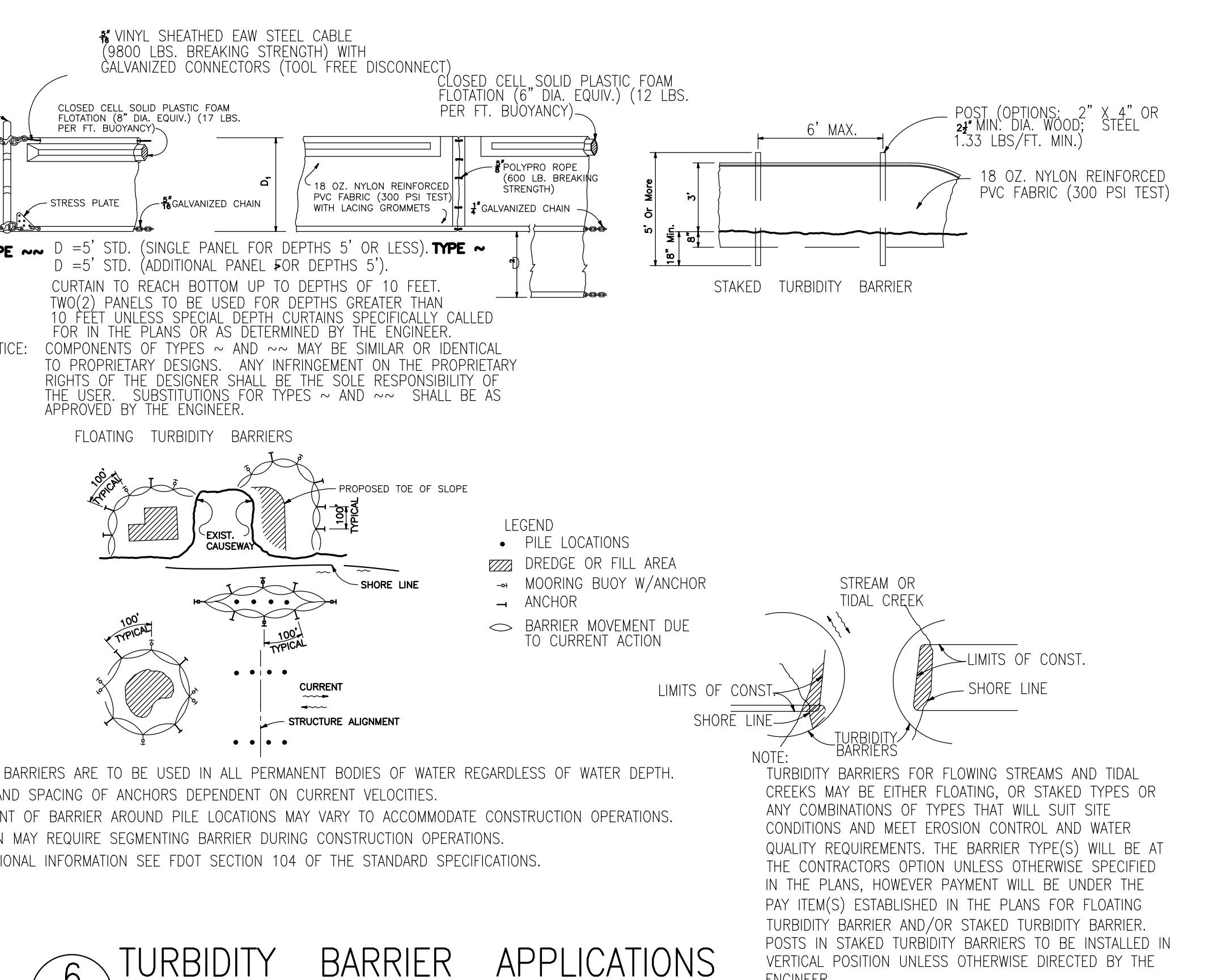


1 CONCRETE SIDEWALK DETAIL  
C401 1-1/2"=1'-0"



- TREE PROTECTION NOTES:**
- TREES TO BE PRESERVED SHALL SURROUND BE 2X4 POSTS AT 8' ON CENTER MAXIMUM. INSTALL 2- 2X4 RAILS, THE TOP RAIL LOCATED AT A 42" HEIGHT. LOCATE PROTECTION FENCE AT TREE DRIP LINE. A MINIMUM PROTECTION DIAMETER IS 12" WIDTH PER 1" CALIPER OF THE TREE. INSTALL ORANGE CONSTRUCTION FENCE ON TOP OF THE 2X4 FENCING FOR SAFETY.
  - ALL TREE PROTECTION MEASURES SHALL CONFORM TO ALL ORANGE COUNTY LAND DEVELOPMENT REGULATIONS. DO NOT STORE ANY PETROLEUM PRODUCTS, SOLVENTS, OR ANY CHEMICALS WITHIN THE PROTECTION ZONE.
  - DO NOT STORE ANY MECHANICAL EQUIPMENT OR GANGBOXES WITHIN THE PROTECTION ZONE.
  - DO NOT PARK ANY CONSTRUCTION VEHICLES, TRUCK, FOUR WHEELERS, PROJECT GOLF CARTS, ETC. WITHIN THE PROTECTION ZONE.
  - DO NOT THROW TRASH INTO OR STORE TRASH RECEPTACLES WITHIN THE TREE PROTECTION ZONE.
  - THE PROTECTION ZONE SHALL NOT BE USED AS A LUNCHEON AREA FOR ANY CONSTRUCTION WORKERS ON THE JOB SITE.
  - DO NOT STORE ANY PORT-O-LETS OR TEMPORARY ONSITE RESTROOM FACILITIES WITHIN THE PROTECTION ZONE.

4 TREE PROTECTION  
C401 NTS



5 CONSTRUCTION ENTRANCE  
C401 NOT TO SCALE



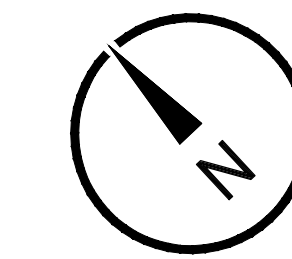
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FL LIC. # AA0002264  
PROJECT TITLE AND OWNERS NAME

ORANGE COUNTY  
LAKESIDE  
VILLAGE PARK  
PHASE II

CONSULTANTS



0 5' 10' 20'  
1 inch = 10 ft.

SEAL AND SIGNATURE

Seal: Majid Kalagchi P.E. 41046

REVISIONS  
90% SUBMITTAL 10-2-18  
RESUBMIT 60% CONSTRUCTION DOCS 1-22-19  
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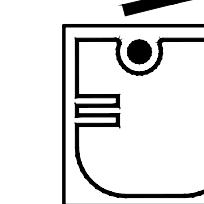
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DRAWING TITLE

BOARDWALK PLAN  
+ DETAILS

DRAWING NUMBER

C402

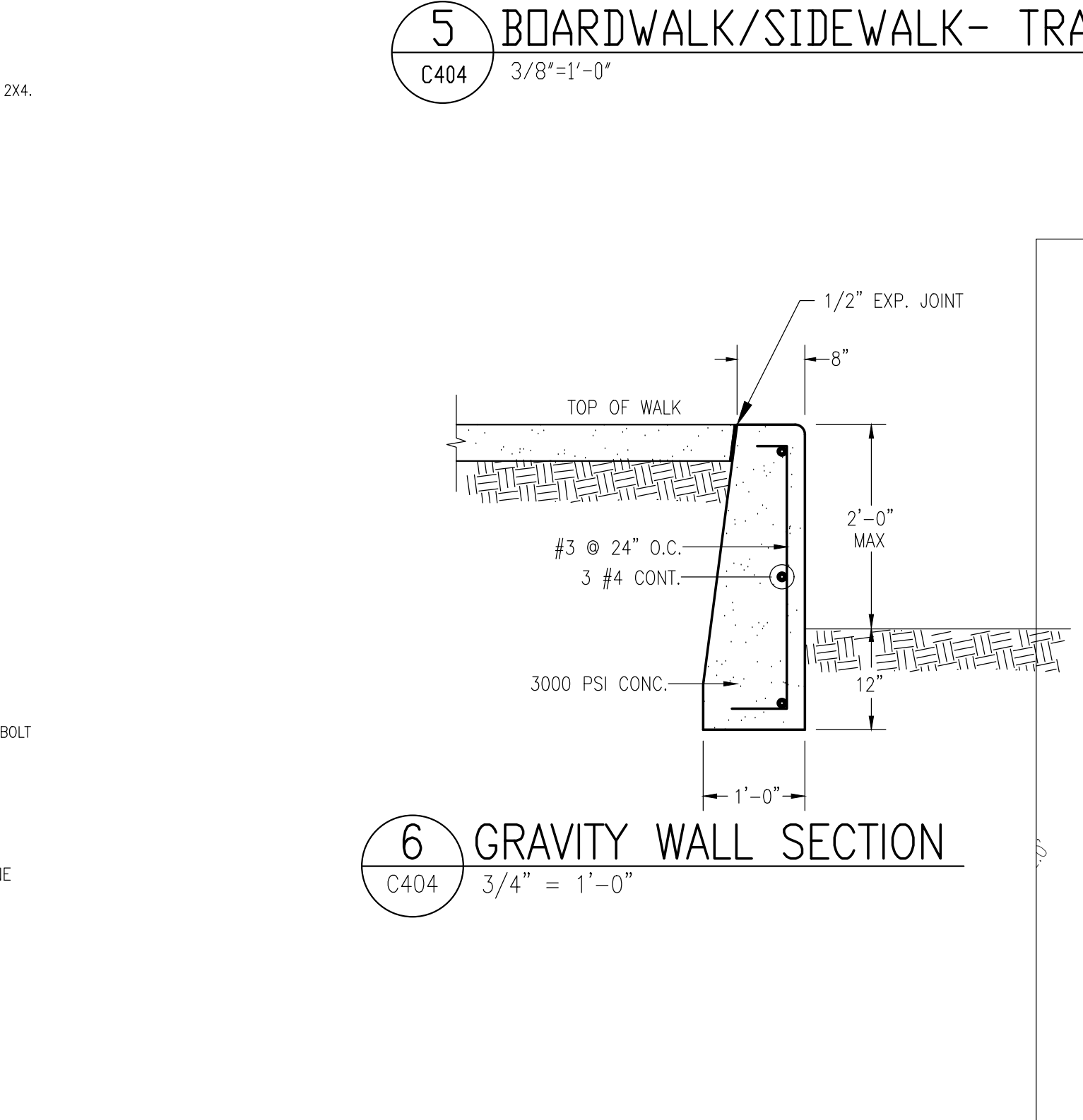
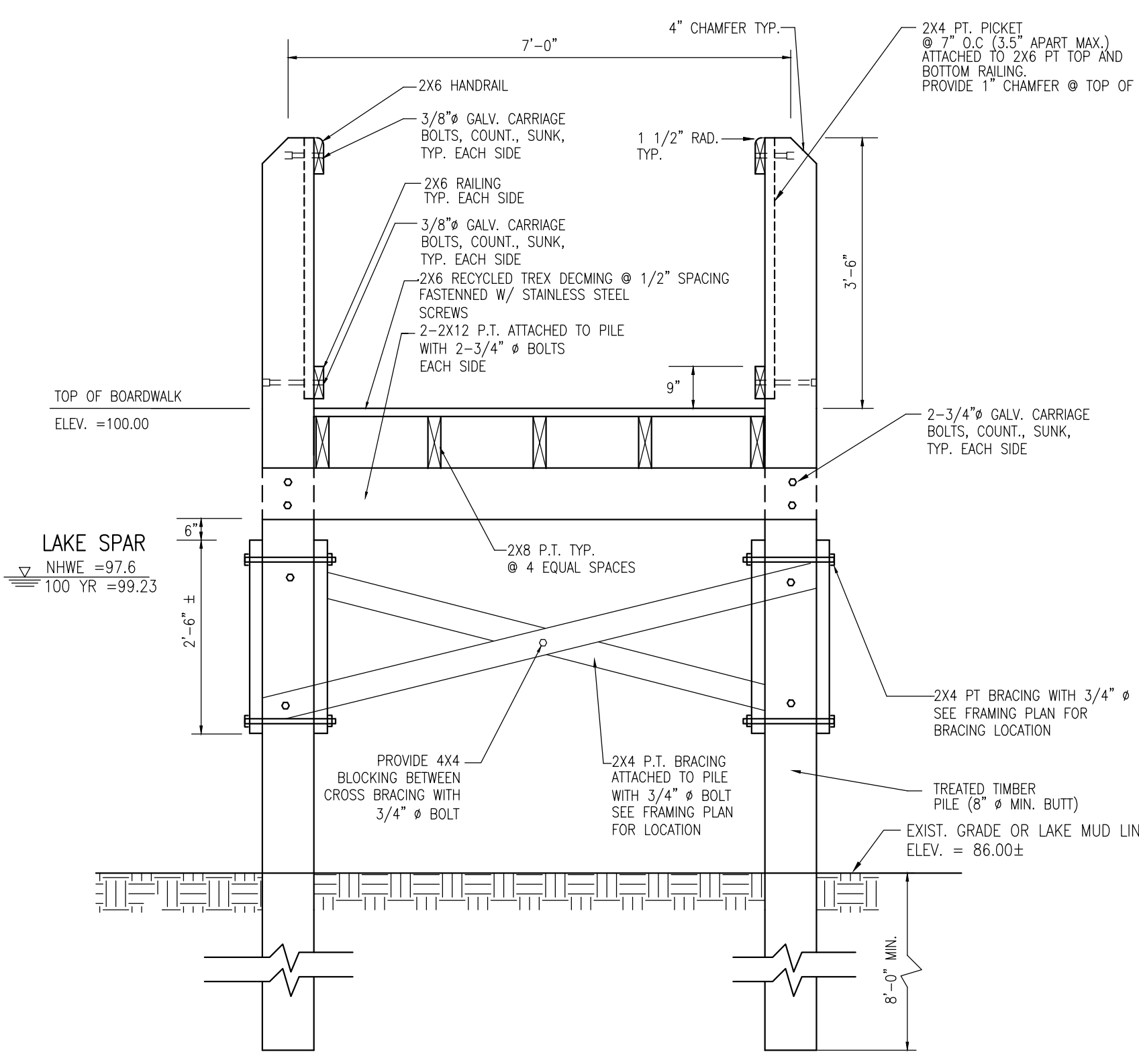
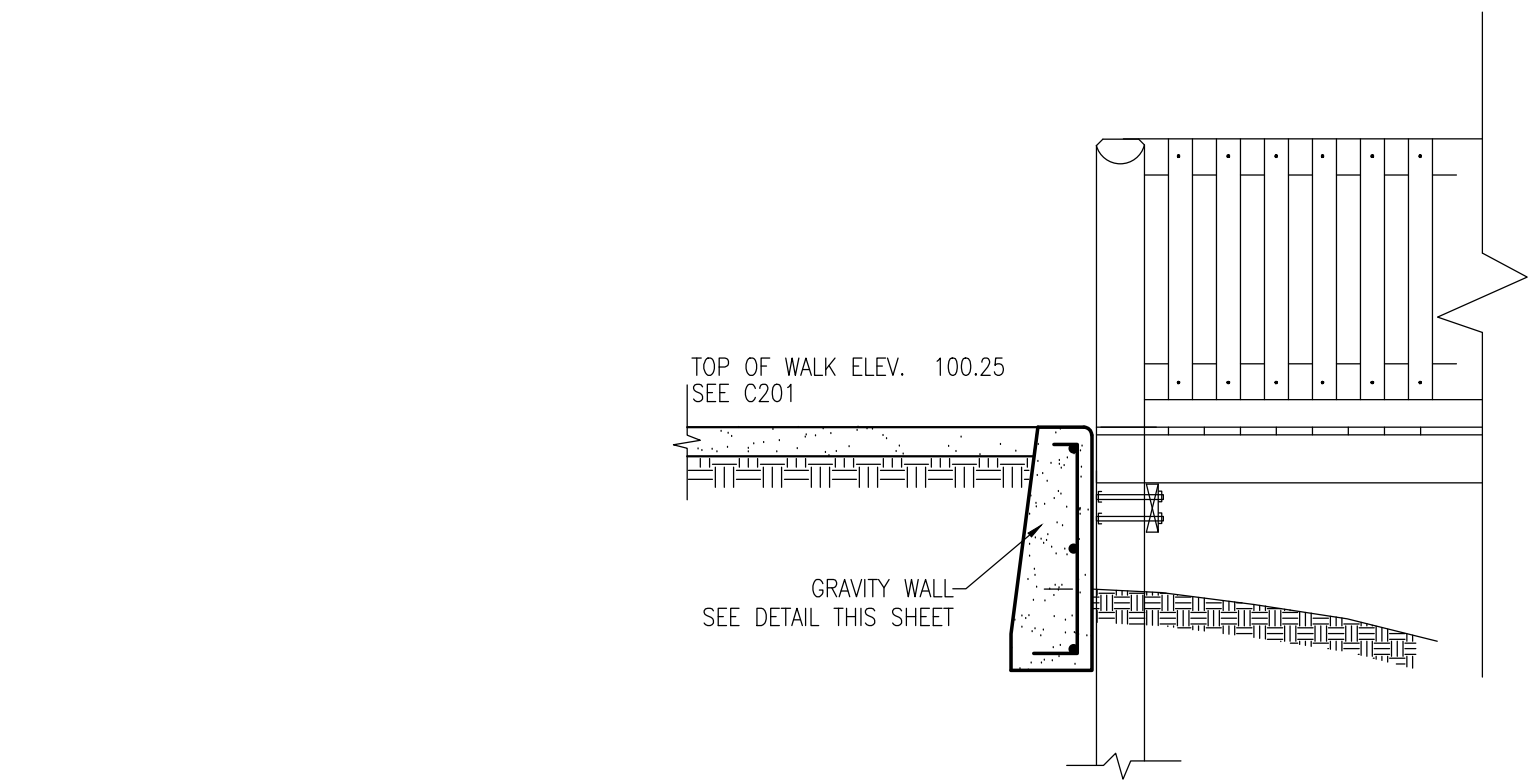
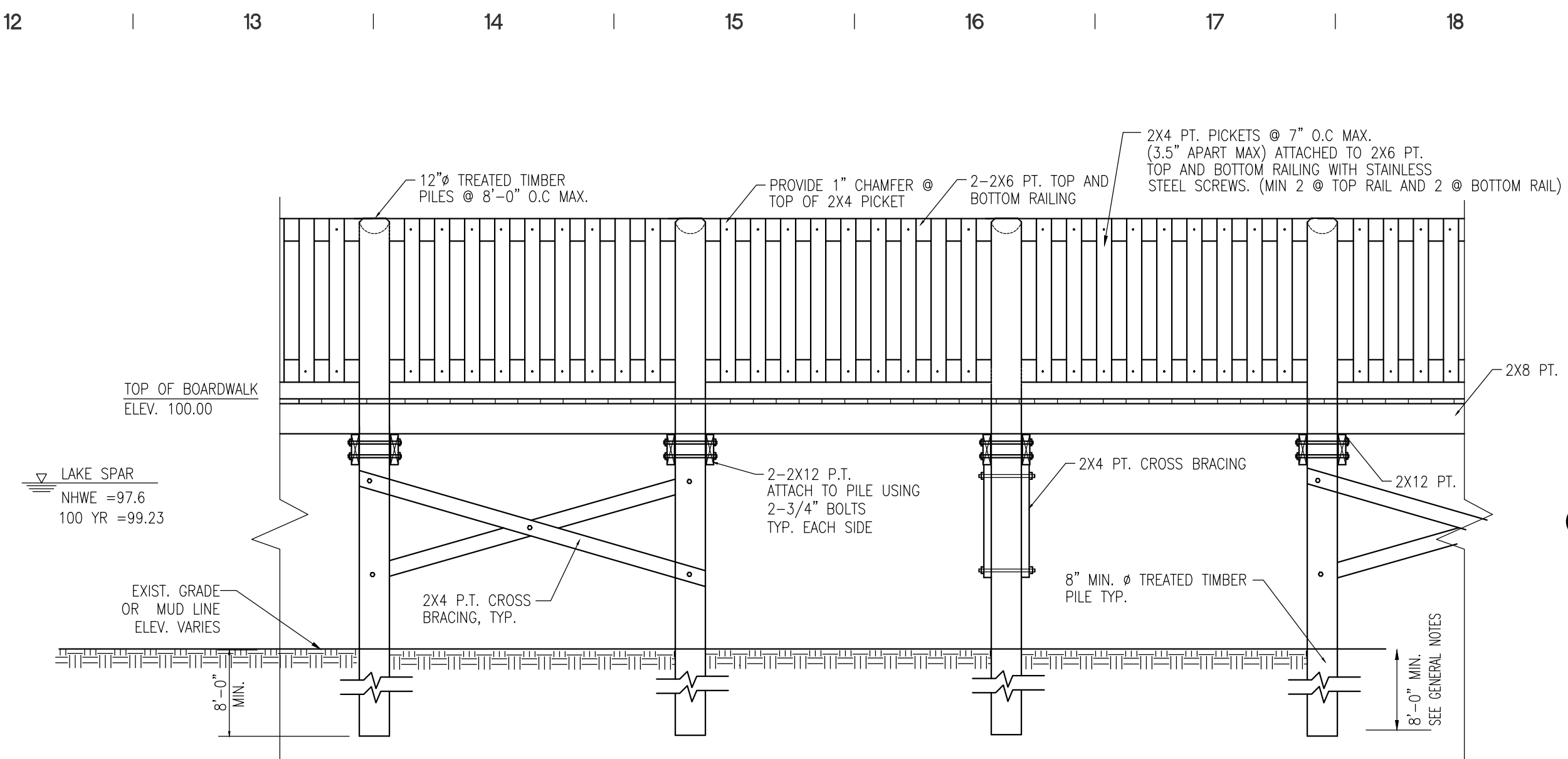
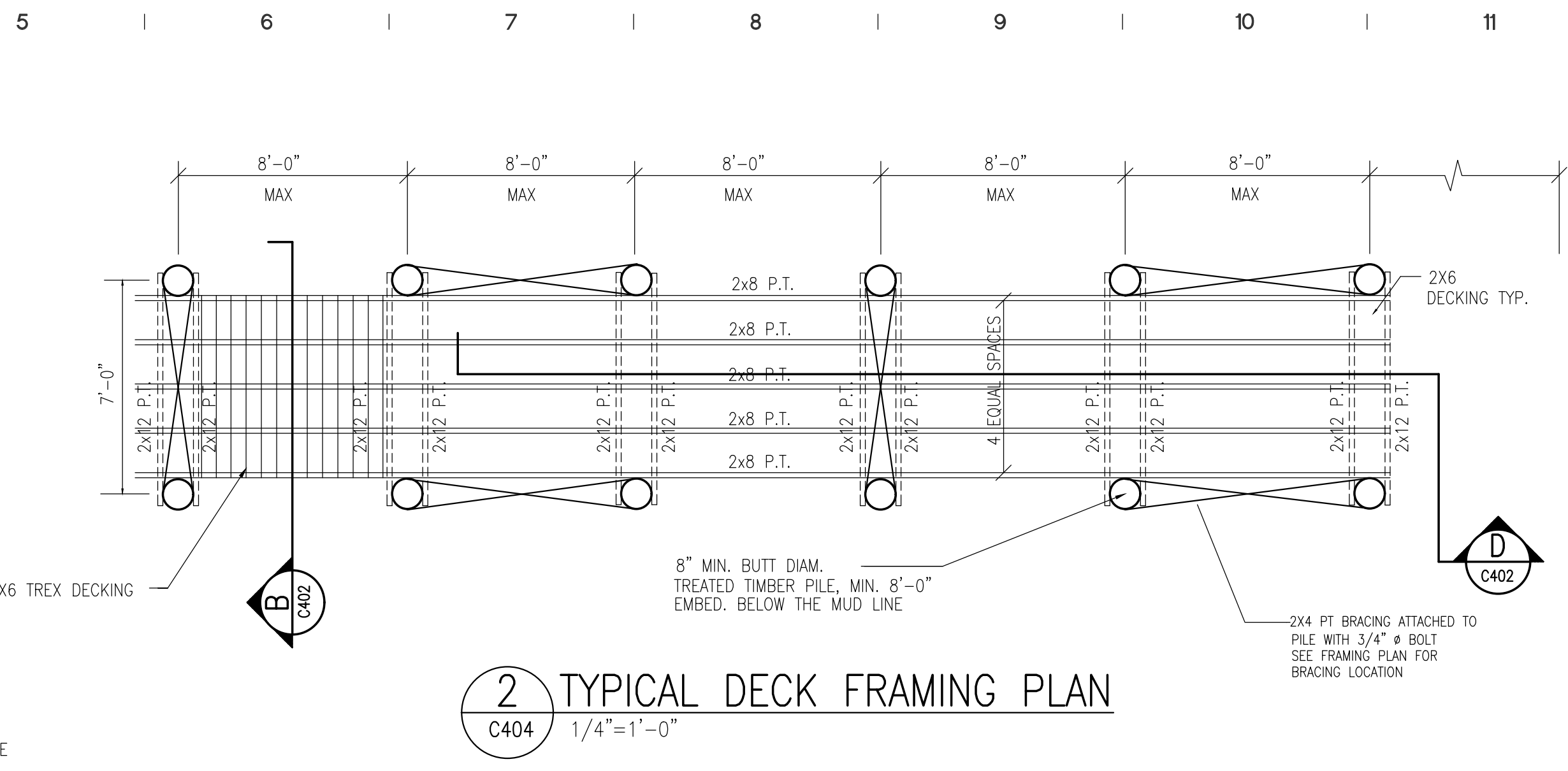
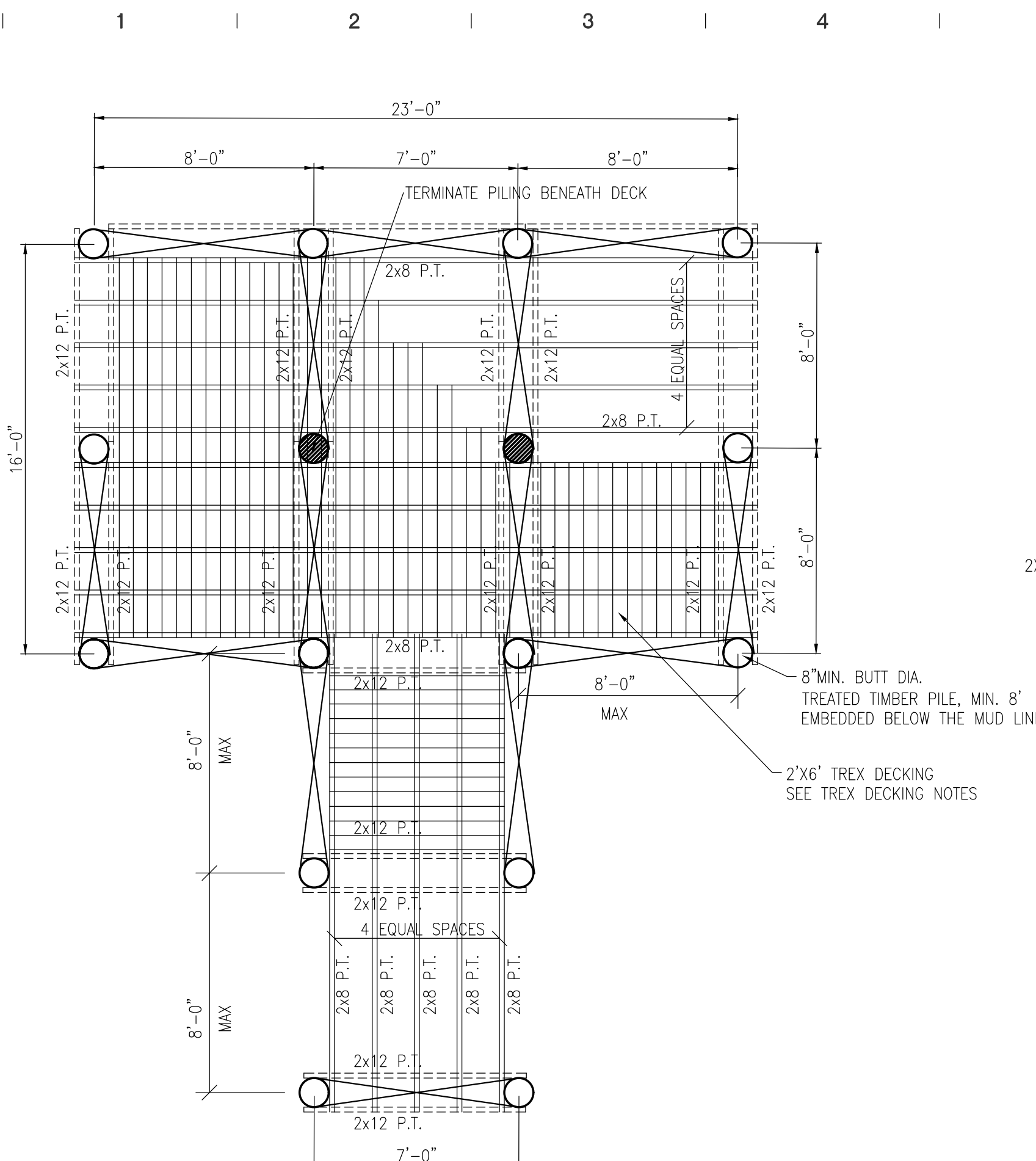


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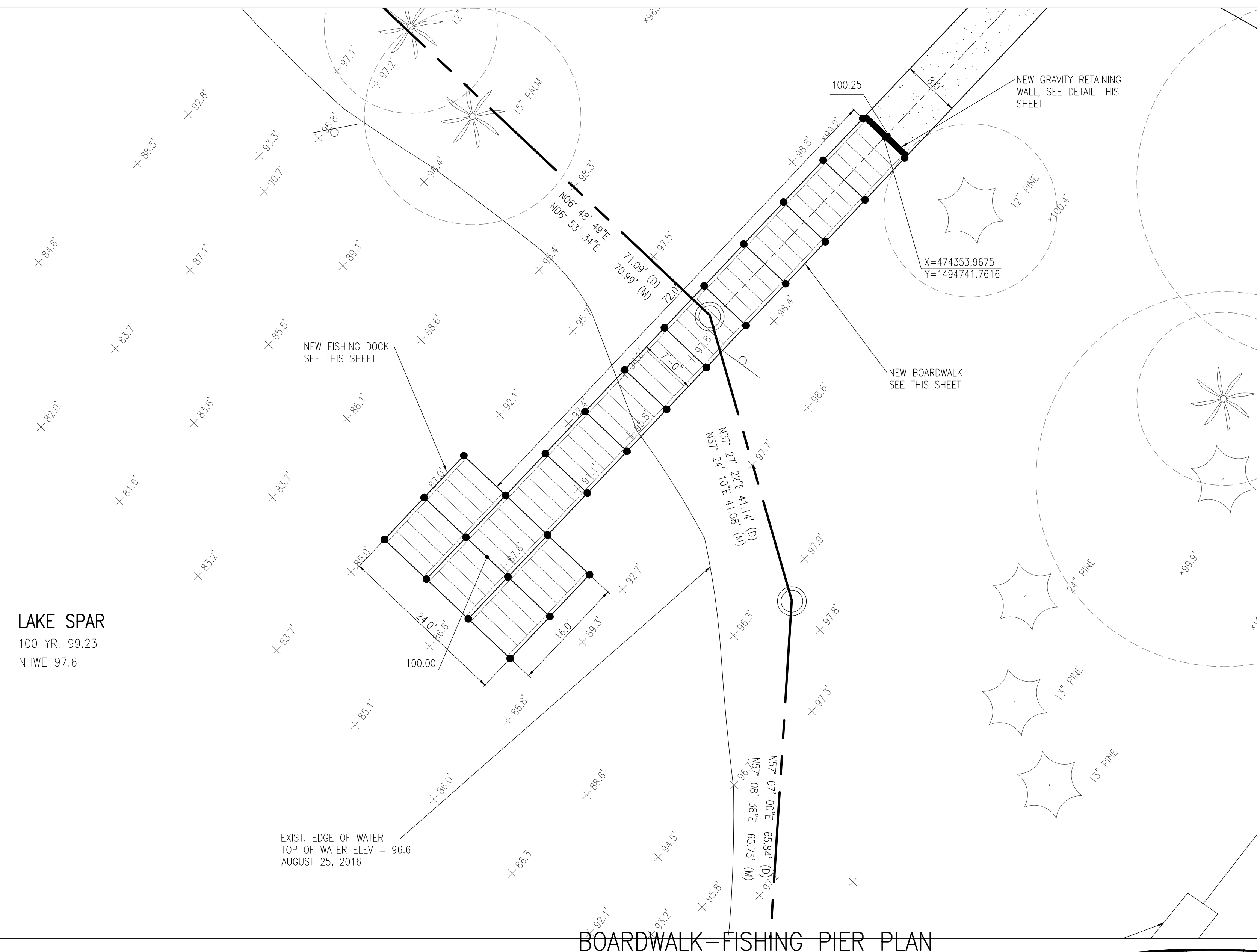
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GENERAL NOTES, DESIGN LOADS FOR BOARDWALK  
GENERAL NOTES & SPECIFICATIONS  
1. CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS AND RECOMMENDATIONS ON PILE EMBEDMENT AND DRIVING METHODS.  
2. ALL LUMBER SHALL BE NO.2 SOUTHERN YELLOW PINE OR BETTER.  
3. ALL BOLTS AND CONNECTIONS SHALL BE HOT PIPED GALV. STEEL OR STAINLESS STEEL.  
4. ALL PRESSURE TREATED LUMBER SHALL BE IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION.  
5. TIMBER PILES SHALL BE TREATED IN ACCORDANCE WITH FBC 2004, SECTION 1809.1.2. PRESERVATIVE AND MINIMUM FINAL RETENTION SHALL BE IN ACCORDANCE WITH ANPA C3 FOR ROUND TIMBER PILES. PILES CUT OFFS SHALL BE TREATED IN ACCORDANCE WITH ANPA M4.  
6. EACH PIECE OF LUMBER SHALL BE IDENTIFIED WITH A QUALITY MARK OR END TAG BEARING THE NAME OF THE INSPECTION AGENCY, PRODUCT CLASS, PROCESS, USE EXPOSURE AND RETENTION VALUES.  
7. ALL LUMBER IN TRANSIT, STORAGE AND HANDLING SHALL BE PROTECTED FROM MOISTURE, WEATHER AND CONTAMINANTS.  
8. A MINIMUM PILE LOADING CAPACITY OF 3 KIIPS HAS BEEN ASSUMED.  
9. ALL LUMBER PRODUCT SHALL BE TREATED ALKALINE COPPER QUATERNARY (ACQ) PRESERVATIVE-TREATED WOOD WITH WATER REPLENT COMPONENT CONTAINING NO ARSENIC OR CHROMIUM IN COMPLIANCE WITH ANPA STANDARD VI. RETENTION RATES SHALL BE AS FOLLOW:  
WOOD FRAMING: 0.6 PCF  
WOOD PILING: 2.5 PCF  
10. DESIGN LIVE LOAD:  
DECK/PLACE OF ASSEMBLY PER FBC 2016 TABLE 1607.1: 100 PSF  
11. CONTRACTOR SHALL COORDINATE THE TOTAL LENGTH OF BOARDWALK WITH RESPECT TO MAXIMUM PILE SPACING  
12. DESIGN VALUES ARE BASED ON SOUTHERN PINE LUMBER WITH A MOISTURE CONTENT OF <19%.  
13. MINIMUM PILE EMBEDMENT IS 8'-0" BASED ON MINIMUM DESIGN LOAD OF 1 KIP PER PILE AND 100 PSF LIVE LOAD. BASED ON GEOTECH REPORT PREPARED BY UNIVERSAL ENG. AN ULTIMATE PILE CAPACITY OF 10 KIIPS WILL BE PROVIDED WITH 8'-0" EMBEDMENT.

DESIGN LOADS  
PER FLORIDA BUILDING CODE 2014 EDITION  
ULTIMATE DESIGN WIND VELOCITY =140 MPH, 3 SEC. GUST  
NOMINAL DESIGN WIND VELOCITY =109 MPH, 3 SEC. GUST  
RISK CATEGORY II  
EXPOSURE C  
DESIGN LIVE LOAD: 100 PSF FOR PLACE OF ASSEMBLY  
RAILING HAS BEEN DESIGNED FOR A UNIFORM LOAD OF 50 PLF INCLUDING TRANSFER OF THE LOAD TO THE STRUCTURE.  
RAILING ASSEMBLY HAS BEEN DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION AND HAVE ATTACHMENTS AND SUPPORTING STRUCTURE TO TRANSFER THIS LOAD TO THE PILING.  
HARDWARE SCHEDULE  
1. CONTRACTOR SHALL VERIFY ALL COMPONENTS OF HARDWARE SCHEDULE PRIOR TO START OF CONSTRUCTION.  
2. CARRIAGE BOLT  
3/8" X 10" - #BCAR-037-1000G  
3/4" X 12" - #BCAR-075-1200G  
3/4" X 14" - #BCAR-037-1000G  
MANUFACTURED BY REYNOLDS OR ACCEPTED EQUAL  
3. STAINLESS STEEL SCREWS  
#10, 3" SWANEZE, BY SWAN SECURE PRODUCTS INC. OR ACCEPTED EQUAL  
#8, 2 1/2" SWANEZE, BY SWAN SECURE PRODUCTS INC. OR ACCEPTED EQUAL  
THE ABOVE HARDWARE SCHEDULE IS NOT ALL INCLUSIVE OF SIZES REQUIRED FOR ASSEMBLY OF THE BOARDWALK. IT IS GIVEN FOR INFORMATION ONLY.  
TREX DECKING  
1. PROVIDE TREX TRANSCEND COMPOSITE DECKING PREMIUM TROPICAL BEST (2" SQ. EDGE, ACTUAL DIMENSIONS 1.375"X5.5") OR OWNER APPROVED EQUAL. ALL CONNECTIONS TO FRAMING SYSTEM SHALL MEET TREX REQUIREMENTS. COLOR SELECTED PER OWNER



NOTE:  
THE TOTAL AREA OF THE DOCK OVER EXISTING SURFACE WATER IS 550 SQUARE FEET.





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320 E. SOUTH STREET, SUITE 150  
ORLANDO, FLORIDA 32801  
(407) 245-3660 FAX: (407) 245-3662

FL LIC. # AA0002264

PROJECT TITLE AND OWNERS NAME

# ORANGE COUNTY LAKESIDE VILLAGE PARK PHASE II

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalaghchi P.E. 41046

REVISIONS  
90% SUBMITTAL 10-2-18  
RESUBMIT 60% CONSTRUCTION DOCS 1-22-19  
90% RESUBMITTAL 5-8-19

DRAWN BY

D. FORSYTH

CHECKED BY

M. KALAGHCHI

JOB NUMBER

1858

DATE

xxx

DRAWING TITLE

## HARDSCAPE/ PLAYGROUND PLAN + DETAILS

DRAWING NUMBER

# C403A

SHEET OF

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### SHADE STRUCTURE GENERAL NOTES:

- FABRIC SPECIFICATIONS
  - UV SHADE FABRIC SHALL BE MADE OF UV STABILIZED CLOTH MANUFACTURED BY ALNET, OR APPROVED EQUAL.
  - THE HIGH DENSITY POLYETHYLENE MATERIAL SHALL BE MANUFACTURED WITH TENSIONED FABRIC STRUCTURES IN MIND.
  - THE FABRIC KNOT IS TO BE MADE USING MONOFILAMENT AND TAPE FILLER WHICH HAS A WEIGHT OF 9.38 TO 10.32 OUNCE PER SQUARE YARD. MATERIAL SHALL BE RACHEL-KNITTED TO INSURE MATERIAL WILL NOT UNRAVEL IF CUT.
  - BURST STRENGTH OF 828 LBFT (ASTM 3786)
  - CLOTH SHALL MEET FIRE RESISTANCE TESTS AS FOLLOWS:  
ALNET EXTRA BLOCK: CALIFORNIA STATE FIRE MARSHALL REG. #F-93501  
OTHERS: NFPA 701-99 (TEST METHOD 2)  
ASTM E-84
  - FABRIC PROPERTIES:  
STRETCH STENTORED  
TEAR TESTS (LBS/FT) WARP 44.8  
WEFT 44  
BURST TESTS (LBS FT) 828  
FABRIC WEIGHT (OZ/SF) AVG 1.02 TO 1.07  
FABRIC WIDTH 9'-10"  
ROLL LENGTH 150'  
ROLL SIZE 63"x16.5"  
WEIGHT 120 LBS.  
LIFE EXPECTANCY 10 YEARS  
FADING MINIMAL FADING AFTER 6 YEARS  
NOTE: 3 YEARS FOR RED AND YELLOW  
TEMPERATURE -77 DEGREES  
MAXIMUM TEMPERATURE +167 DEGREES
  - THREAD  
A. SHALL BE 100% EXPANDED PTFE FIBER WHICH CARRIES A 10 YEAR WARRANTY THAT IS HIGH STRENGTH AND LOW SHRINKAGE.  
B. SHALL HAVE A WIDE TEMPERATURE AND HUMIDITY RANGE.  
C. ABRASION RESISTANT AND UV RADIATION INERT.  
D. SHALL BE UNAFFECTED BY NO-HYDROCARBON BASED CLEANING AGENTS, ACID RAIN, MILDEW, ROT, CHLORINE, SALTWATER, AND POLLUTION.  
E. LOCKSTITCH THREAD - 1200 DENIER OR EQUAL.  
F. CHAIN STITCH THREAD - 2400 DENIER OR EQUAL.
  - STEEL TUBING  
A. ALL FABRICATED STEEL MUST BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND CALCULATIONS.  
B. ALL STEEL IS CLEANED, DEGREASED, OR ETCHED TO ENSURE PROPER ADHESION OF POWDER-COAT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
C. ALL STEEL USED ON THIS PROJECT NEEDS TO BE NEW AND ACCOMPANIED BY THE MILL CERTIFICATES IF REQUESTED. STRUCTURAL STEEL TUBING UP TO 5" - 7" GAUGE SHALL BE GALVANIZED PER ALIQUID STEEL COAT SPECIFICATIONS. SCHEDULE 40 BLACK PIPE FABRICATION SHALL BE SANDBLASTED AND PRIMED AS DESCRIBED BELOW.  
D. ALL NON-HOLLOW STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A-53 GRADE C, UNLESS OTHERWISE NOTED.  
E. PLATE PRODUCTS SHALL COMPLY WITH ASTM A-36.  
F. POWDER COATING AND PRIMING  
A. ALL NON-GALVANIZED STEEL SHALL BE SANDBLASTED AND PRIMED PRIOR TO POWDER COATING USING BROWN FUSED ALUMINUM OXIDE GRIT AND THE FOLLOWING PRIMER:  
B. ALL NON-GALVANIZED STEEL MUST BE COATED WITH RUST INHIBITING PRIMER PRIOR TO APPLYING THE POWDER COAT. PRIMER SHALL BE MARINE GRADE CARDINAL INDUSTRIAL FINISHES CORP. E396 - GR1372 EPOXY POWDER COATING SEMI-GLOSS SMOOTH ZINC RICH PRIMER.  
C. WELDS SHALL BE PRIMED WITH RUST INHIBITING PRIMER PRIOR TO APPLYING THE POWDER COAT. PRIMER SHALL BE MARINE GRADE CARDINAL INDUSTRIAL FINISHES CORP. E396 - GR1372 EPOXY POWDER COATING SEMI-GLOSS SMOOTH ZINC RICH PRIMER.  
D. ALL STEEL PARTS SHALL BE COATED FOR RUST PROTECTION AND FINISHED WITH A MINIMUM 3.5 MIL THICK UV-INHIBITED WEATHER RESISTANT POWDER COATING.  
E. CHARACTERISTICS: POWDER USED IN THE POWDER-COAT PROCESS SHALL HAVE THE FOLLOWING CHARACTERISTICS:  
N.3.1 SPECIFIC GRAVITY 1.68 +/- 0.05  
N.3.2 THEORETICAL COVERAGE 1144 +/- 4FT 2/LB/MIL  
N.3.3 MASS LOSS DURING DURE <1%  
N.3.4 MAXIMUM STORAGE TEMPERATURE 75 DEGREES F  
F. POWDER-COATING SHALL MEET THE FOLLOWING TESTS:  
ASTM GLOSS AT 60 DEGREE 85-95  
HOI TM 10.219 PCI POWDER SMOOTHNESS 7  
ASTM D2454-91 OVER-BAKE RESISTANCE TIME H-2H 200%  
ASTM D3363-92PENCIL HARDNESS 149/40 IN/LBS  
ASTM D2794-93 DIR/REV IMPACT, GARDNER 5B PASS  
ASTM D3359-95ADHESION, CROSS HATCH 1/4" DIA. NO FRACTURE  
ASTM D522-93A FLEXIBLE MANDREL 1,000 HOURS  
ASTM B117-95 SALT SPRAY RECOGNIZED  
UL D992 ORGANIC COATING STEEL ENCLOSURES, ELECT. EO.
  - APPLICATION CRITERIA  
N.5.1 ELECTROSTATIC SPRAY COLD SUBSTRATE:0.032 IN. CRS  
N.5.2 CURE SCHEDULE 10 MIN. AT 400 DEGREES F  
N.5.3 PRETREATMENT BONDERITE 1000  
N.5.4 FILM THICKNESS 3.5 MILS
  - WELDING  
A. ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.  
B. WELDING PROCEDURES SHALL COMPLY IN ACCORDANCE WITH THE AWS D1.1-AWS STRUCTURAL WELDING CODE-STEEL.  
C. ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.  
D. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX.0.35 WIRE.  
E. SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE INDICATED ON DRAWINGS. FIELD-WELDED CONNECTIONS ARE NOT ACCEPTABLE.  
F. ALL FILLET WELDS SHALL BE A MINIMUM FO 1/4" UNLESS OTHERWISE NOTED.  
G. ALL STEEL SHALL BE WELDED SHUT AT TERMINATIONS TO PREVENT INTERNAL LEAKAGE.  
H. INTERNAL WELD SLEEVING IS NOT ACCEPTABLE.  
I. ON-SITE WELDING OF ANY COMPONENT IS NOT ACCEPTABLE.
  - SEWING  
A. ON-SITE SEWING OF A FABRIC WILL NOT BE ACCEPTED.  
B. ALL CORNERS SHALL BE REINFORCED WITH EXTRA NON-TEAR CLOTH AND STRAP TO DISTRIBUTE THE LOAD.  
C. THE PERIMETERS THAT CONTAIN THE CABLES SHALL BE DOUBLE LOCK STITCHED.  
D. INSTALLATION HARDWARE  
A. BOLT AND FASTENING HARDWARE SHALL BE DETERMINED BASED ON CALCULATED ENGINEERING LOADS.  
B. ALL BOLTS SHALL COMPLY WITH SAE-1429 (GRADE 8) OR ASTM A325 (GRADE BD). ALL NUTS SHALL COMPLY WITH ASTM F-594, ALLOY GROUP 1 OR 2.  
C. UPON REQUEST, STAINLESS STEEL HARDWARE SHALL COMPLY WITH ASTM A-304.  
D. 1/4" GALVANIZED WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 7,000 LBS. FOR SHADES GENERALLY UNDER 575 SQ.FT., CABLE SHALL BE 3/8" WITH A BREAKING STRENGTH OF 9,800 LBS. UPON REQUEST, 1/2" STAINLESS STEEL WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 6,400 LBS. 3/8" STAINLESS STEEL WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 9,000 LBS.  
E. ALL FITTINGS REQUIRED FOR PROPER SECURING OF THE CABLE ARE HOT DIPPED GALVANIZED.
  - CONCRETE  
A. CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN CONCRETE BUILDING CODE ACI 318 UNLESS SPECIFIED BY THE GOVERNING MUNICIPALITY.  
B. CONCRETE SPECIFICATIONS SHALL COMPLY IN ACCORDANCE WITH, AND DETAILED AS PER PLANS AS FOLLOWS:  
1. 28 DAYS STRENGTH F'c = 2500 PSI  
2. AGGREGATE: HR  
3. SLUMP: 3-5  
4. PORTLAND CEMENT SHALL CONFORM TO C-150  
5. AGGREGATE SHALL CONFORM TO ASTM C-33  
C. ALL REINFORCEMENT SHALL CONFORM TO ASTM A-615 GRADE 60.  
D. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL AND MANUAL OF STANDARD PRACTICE.  
E. WHENEVER DAILY AMBIENT TEMPERATURES AREA BELOW 80 DEGREES FAHRENHEIT, THE CONTRACTOR MAY HAVE MIX ACCELERATORS AND HOT WATER ADDED AT THE BATCH PLANT (SEE TABLE 1).  
TEMPERATURE RANGE % ACCELERATOR TYPE ACCELERATOR  
75-80 DEGREES 1% HIGH EARLY (NON CALCIUM)  
70-75 DEGREES 2% HIGH EARLY (NON CALCIUM)  
BELOW 70 DEGREES 3% HIGH EARLY (NON CALCIUM)
  - FOOTINGS  
A. ALL ANCHOR BOLTS SET IN NEW CONCRETE SHALL BE ASTM A-307, OR ASTM F-1554 IF SPECIFIED BY ENGINEER.  
B. ALL ANCHOR BOLTS SHALL BE ZINC PLATED UNLESS SPECIFIED OTHERWISE.  
C. FOOTING SHALL BE PLACE IN ACCORDANCE WITH AND CONFORM TO ENGINEERED SPECIFICATIONS AND DRAWINGS.
  - CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND FOUNDATION PLANS ALONG WITH NECESSARY CALCULATIONS AND BE RESPONSIBLE FOR SUBMISSION FOR PERMIT.

### SHADE FOUNDATION

- CONC. FOOTING DIMENSIONS TO BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE
- ANCHOR BOLT SIZE & SPACING PER SHELTER MANUFACTURER
- CONCRETE SHALL BE 3000 PSI WITH SLUMP RANGE OF 4" ±1"
- THE FOUNDATION HAS BEEN DESIGNED ASSUMING A SOIL BEARING PRESSURE OF 2000 PSI.
- ALL STEEL REINFORCING SHALL BE GRADE 60.
- SIZE AND DEPTH OF CONC. FOOTING MAY BE ALTERED IF REQUESTED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- CONTRACTOR TO SUBMIT CERTIFIED MANUFACTURER SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL FOR PERMITTING.

### DESIGN BASIS:

PER FLORIDA BUILDING CODE 2014 EDITION  
ULTIMATE DESIGN WIND LOAD=130 MPH (FIG. 1609C)  
RISK CATEGORY I (SCREEN WALLS, ENCLOSURE)  
NOMINAL DESIGN WIND LOAD = 101 MPH (TABLE 1609.3.1)

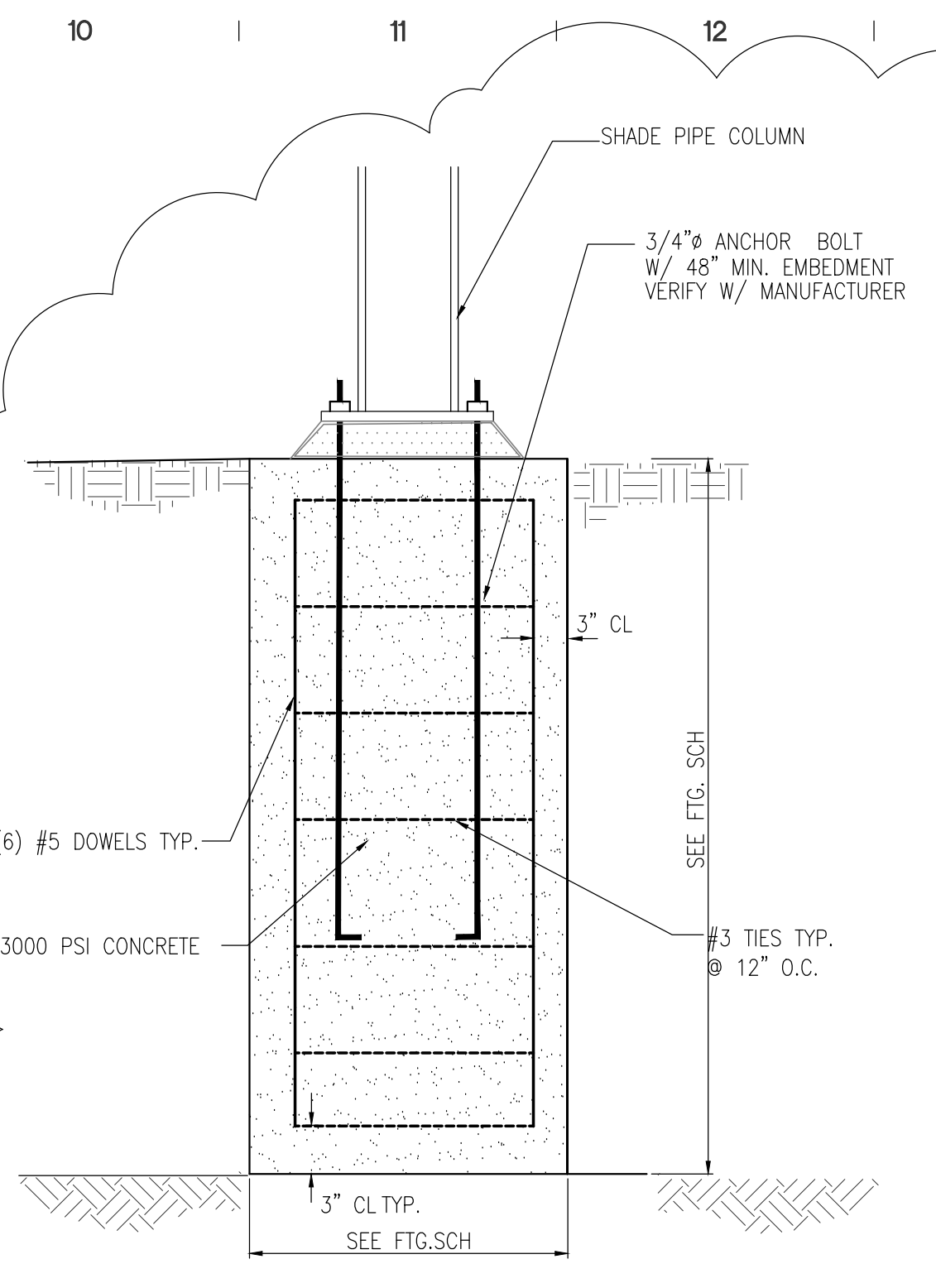
WIND EXPOSURE: C COEFFICIENT: ±0.18  
INTERNAL PRESSURE: C

WIND PROVISIONS (ASAP)	COEFFICIENTS (IF DIFFERENT)
WIND SPEED	130 MPH
WIND DIRECTION	AS NOTED
WIND EXPOSURE	C
WIND RISK CATEGORY	I
WIND PROVISIONS (ASAP)	AS NOTED

NOTE: TO OBTAIN NOMINAL "ASD" WIND PRESSURES MULTIPLY VALUES SHOWN ON TABLE BY A FACTOR OF 0.6

SECTION	REBAR	ALL FOOTING
1	3# 12	3# 12
2	3# 12	3# 12
3	3# 12	3# 12
4	3# 12	3# 12
5	3# 12	3# 12
6	3# 12	3# 12
7	3# 12	3# 12
8	3# 12	3# 12
9	3# 12	3# 12
10	3# 12	3# 12
11	3# 12	3# 12
12	3# 12	3# 12
13	3# 12	3# 12
14	3# 12	3# 12
15	3# 12	3# 12
16	3# 12	3# 12
17	3# 12	3# 12
18	3# 12	3# 12

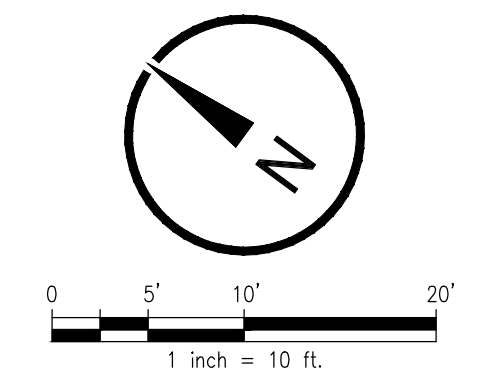
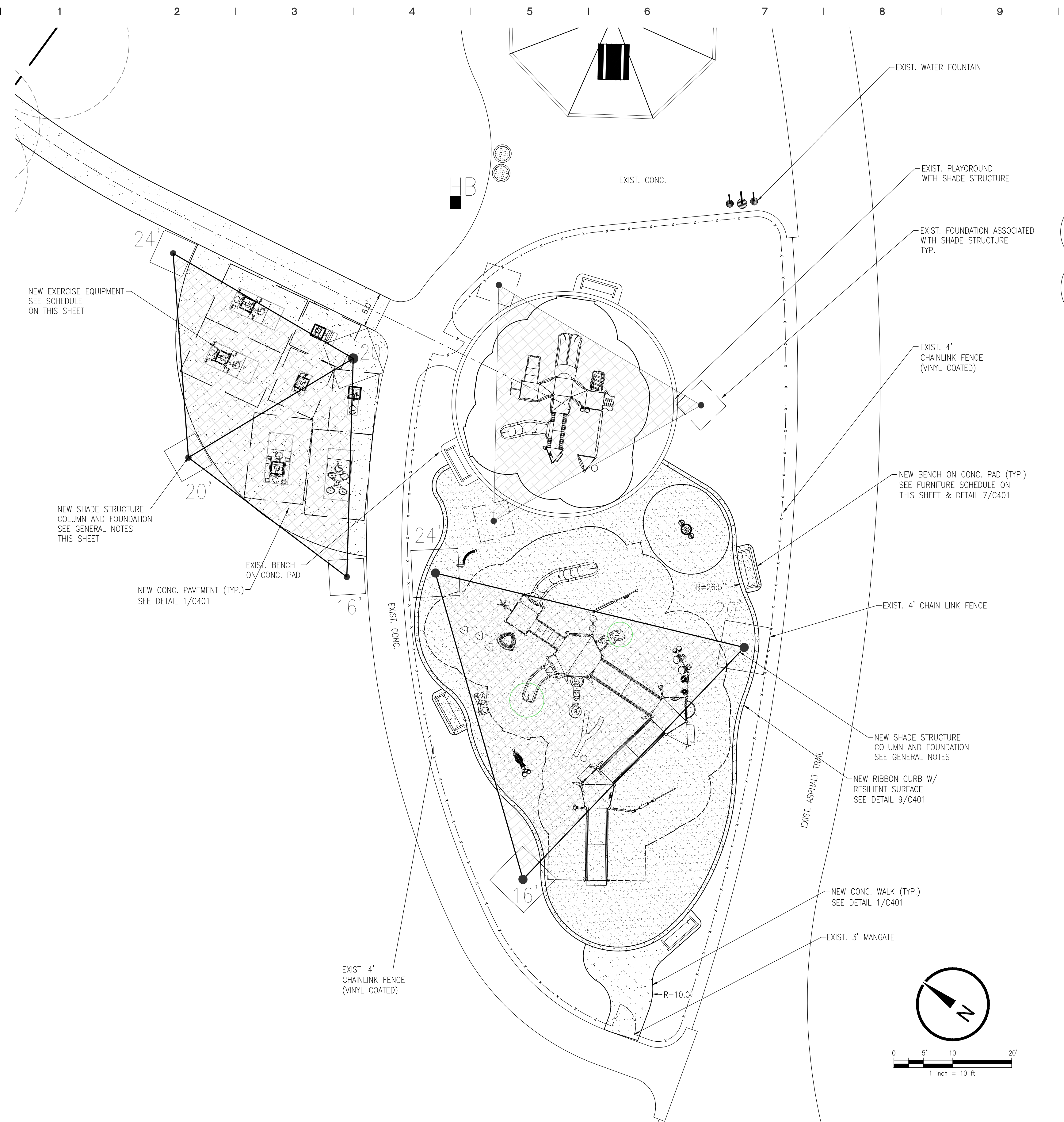
NOTE: IF ALTERNATE FOOTING SIZE IS UTILIZED PROVIDE MIN. #5 REBAR AT 12" O.C. EACH WAY TOP & BOT. ANCHOR BOLT DEPTH TO BE COORDINATED



4 SHADE STRUCTURE FOUNDATION  
C403 1'-1/2" = 1'-0"

### GENERAL NOTES-SUN SHADE FABRIC STRUCTURES

- DESIGN BASIS USED FOR SHADE STRUCTURE:  
SUPERIOR RECREATIONAL PRODUCTS  
LARGE SAIL AT PLAY AREA, 1275 SF  
55'x55'x55' (1), TRIANGULAR BLUE SHADE CLOTH,  
BLACK POWDER COATED COLUMN, (1)24', (1) 20', (1) 16'  
COLUMN HEIGHTS  
MEDIUM SAIL AT FITNESS AREA, 510 SF X 2  
32'x35'x35' (2), TRIANGULAR BLUE SHADE CLOTHS,  
BLACK POWDER COATED COLUMN, (1) 24', (2) 20', (1) 16'  
COLUMN HEIGHTS  
FABRIC: BLUE
- REPRESENTATIVE:  
SHADE SYSTEMS, INC.  
LOCAL REPRESENTATIVE:  
ERNESTO SANTANA  
4150 SW 19TH ST., OCAIA, FL 34474  
(772) 643-4414  
SUPERIOR RECREATIONAL PRODUCTS  
KOLKAT  
1050 COLUMBIA DR., CARROLLTON, GA 30117  
(770) 214-9322  
GT SHADE  
LOCAL REPRESENTATIVE:  
JOELLEN GREEN  
DOMINICA RECREATION PRODUCTS P.O. BOX  
520700 LONGWOOD, FL 32752  
(407) 331-0101
- DESIGN BASIS FOR SHADE STRUCTURES IS SUPERIOR SHADE OR OC APPROVED EQUAL LISTED ABOVE. CONTRACTOR SHALL SUBMIT ENGINEER CERTIFIED SHADE STRUCTURE DRAWINGS FOR REVIEW BY OC AND ENGINEER PRIOR TO SUBMITTAL FOR BLDG. PERMIT.
  - CONTRACTOR TO SUBMIT SHADE FABRIC SAMPLE FOR REVIEW AND APPROVAL BY OC.



### AREA DEVELOPMENT PLAN 1"=10'-0"

SYMBOL	DESCRIPTION			ADDITIONAL INFORMATION	REPRESENTATIVES
	LEG PRESS	1	GAMETIME, #13559	IN-GROUND MOUNT	
	LAT. PULL DOWN	1	GAMETIME, ADVANCED SERIES #132721	ACCESSIBLE, IN-GROUND MOUNT	
	LEG EXTENSION	1	GAMETIME, ADVANCED SERIES #135631	IN-GROUND MOUNT	
	VERTICAL PRESS	1	GAMETIME, ADVANCED SERIES #132741	ACCESSIBLE, IN-GROUND MOUNT	
	CHEST PRESS	1	GAMETIME, ADVANCED SERIES #132711	ACCESSIBLE, IN-GROUND MOUNT	
	SHOULDER ROTATOR	1	GAMETIME, ADVANCED SERIES #135581	ACCESSIBLE, IN-GROUND MOUNT	
	CARDIO WALKER	1	GAMETIME, ADVANCED SERIES #13562	IN-GROUND MOUNT	

URBAN DESIGN PLANNING ENGINEERING  
**SKConsortium, Inc.**  
1053 N. ORLANDO AVE. SUITE 3 MATLAND FLORIDA 32751  
TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080



ARCHITECTURAL GROUP, INC.

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FL LIC. # AA0002264  
PROJECT TITLE AND OWNERS NAME

# ORANGE COUNTY LAKESIDE VILLAGE PARK PHASE II

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalaghchi P.E. 41046

### REVISIONS

90% SUBMITTAL	10-2-18
RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
90% RESUBMITTAL	5-8-19
100% SUBMITTAL	6-6-19

DRAWN BY

D. FORSYTH

CHECKED BY

M. KALAGHCHI

JOB NUMBER

1858

DATE

XXX

DRAWING TITLE

## HARDSCAPE/ PLAYGROUND PLAN + DETAILS

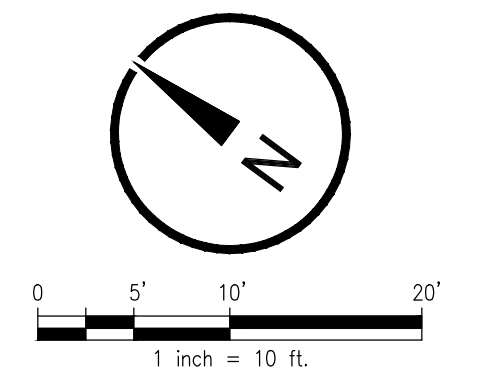
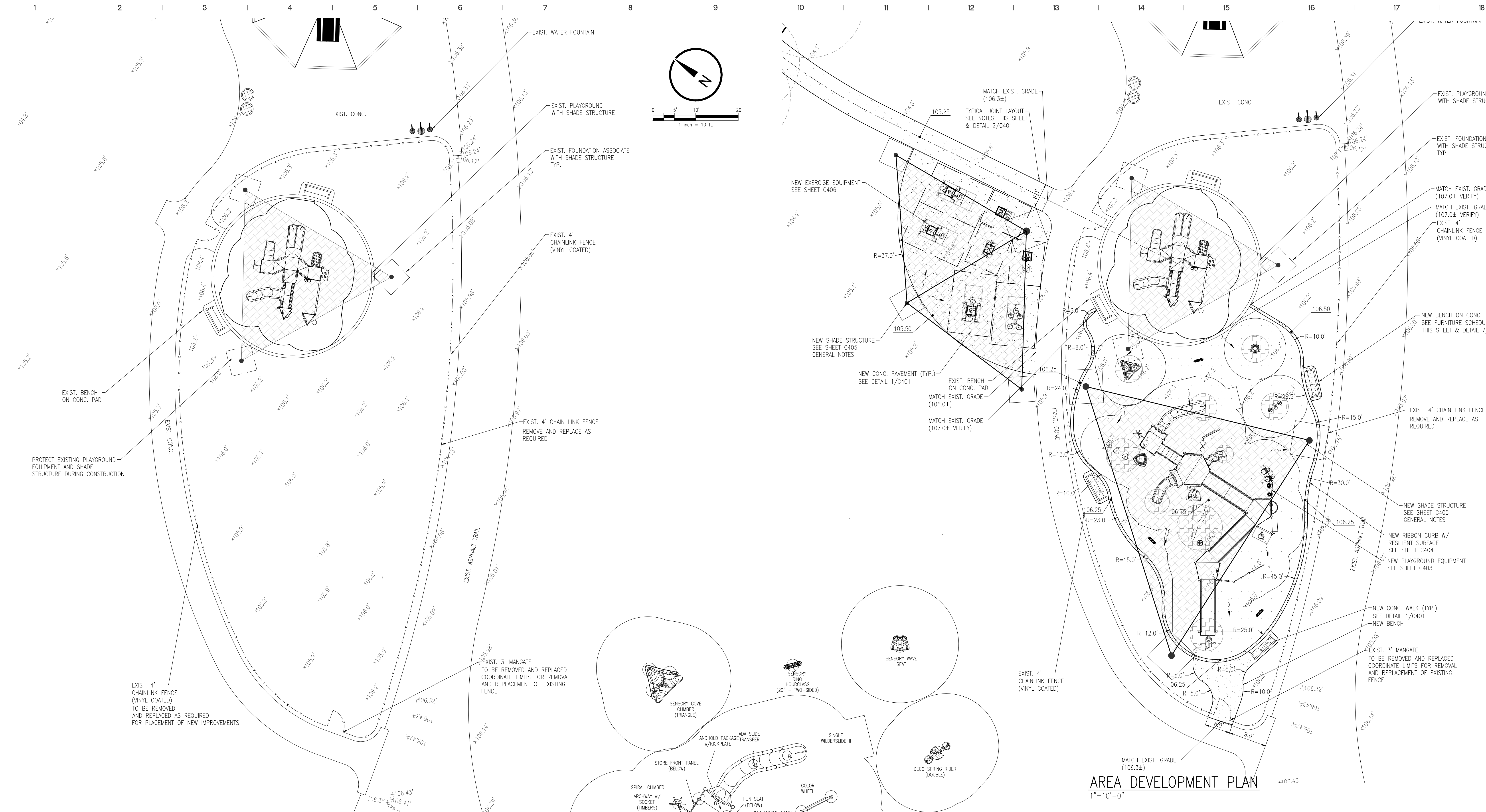
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TELEPHONE 407-629-4288 • FACSIMILE 407-629-1656 • E9# 7080

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**AREA DEVELOPMENT PLAN**  
1"=10'-0"

### AREA DEMOLITION PLAN

1"=10'-0"

#### GENERAL NOTES:

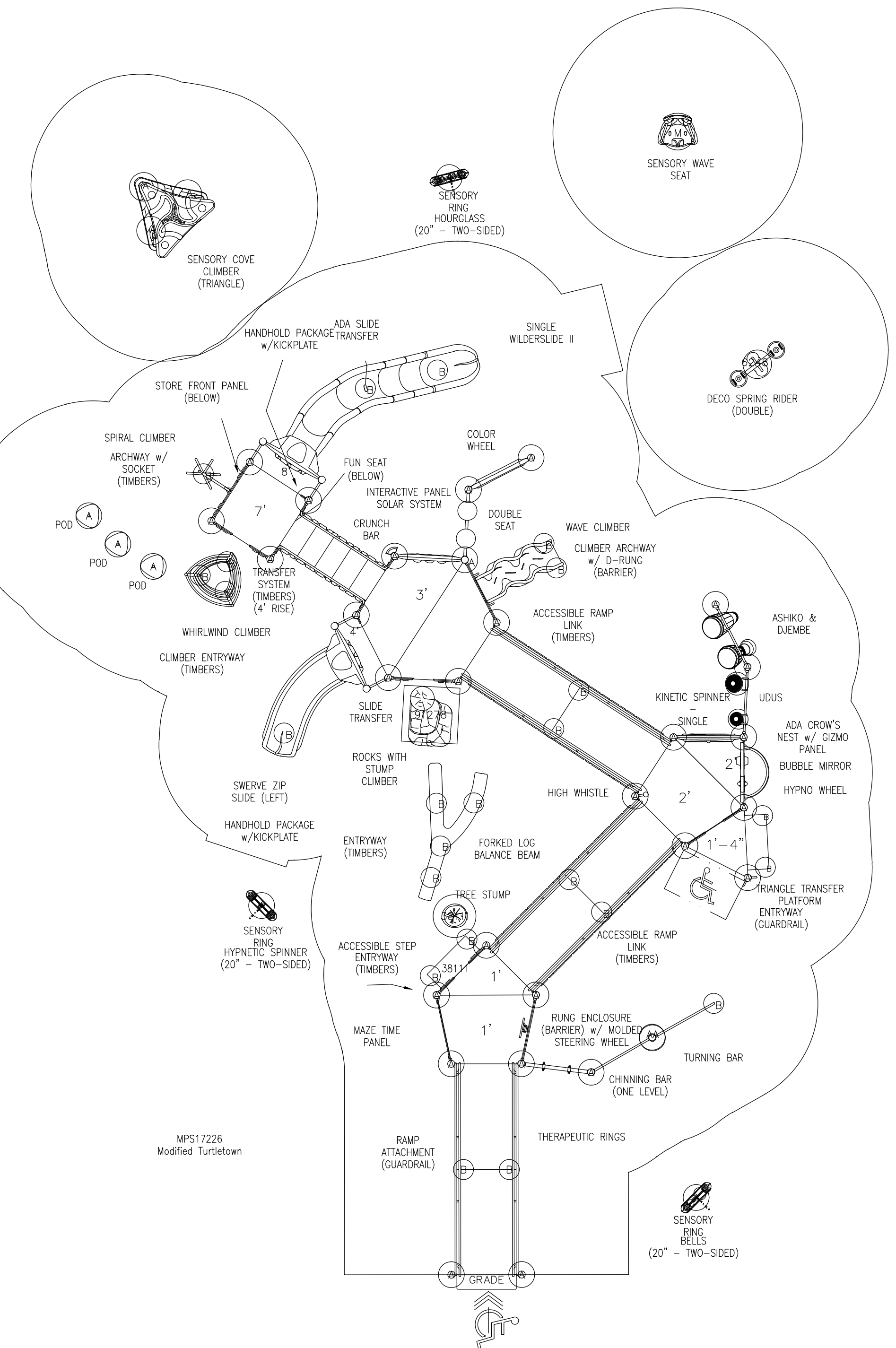
- ALL FILL MATERIAL USED UNDER THE PLAYGROUND AND EXERCISE AREA (AND 10 FEET PERIMETER) SHALL BE IN COMPLIANCE W/ PROJECT SPECS & GEOTECHNICAL RECOMMENDATION W/ MAXIMUM 5% FINES PASSING #200 SIEVE. CONTRACTOR SHALL ENSURE PROPER CLEARING/GRUBBING, TOP SOIL STRIPPING & USE OF SELECT FILL MATERIAL UNDER ALL PLAYGROUND & SPORTS FIELDS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- COORDINATE EXTENT OF CURB, SIDEWALK AND FENCE REMOVAL AND REPLACEMENT WITH RESPECT TO PLACEMENT OF PLAYGROUND, SHADE STRUCTURES AND ITS FOUNDATION SYSTEM.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH OWNER'S REPRESENTATIVE. CONSTRUCTION STAGING AND LAY DOWN AREAS SHALL BE COORDINATED WITH OWNER. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND BE RESPONSIBLE FOR RESTORATION OF ALL IMPROVEMENTS TO ORIGINAL CONDITION. 6. CONTRACTOR TO SUBMIT SHADE FABRIC SAMPLE FOR REVIEW AND APPROVAL BY OC.

### BASIS OF DESIGN

THE MANUFACTURER LISTED BELOW REPRESENT BASIS OF DESIGN. CONTRACTOR MAY SUBMIT AN APPROVED EQUAL TO ABOVE LISTED FURNITURE AND WILL BE RESPONSIBLE FOR ANY CHANGES IN DESIGN, FABRICATION/SHOP DRAWING REVIEW AND INSTALLATION COSTS. SUBSTITUTION REQUESTS WILL BE CONSIDERED IN ACCORDANCE WITH PROCEDURES IN SPECIFICATIONS.

#### GENERAL NOTES - PLAYGROUND EQUIP.:

- PLAY AREAS & EQUIPMENT'S ARE DESIGNED FOR AGES DESIGNATED ON RESPECTIVE PLAYGROUND SIGNS.
- DESIGN BASIS USED FOR PLAY EQUIPMENT:
  - GAME TIME  
LOCAL REPRESENTATIVE:  
JOELLEN GREEN  
DOMINICA RECREATION PRODUCTS P.O. BOX  
500700 LONGWOOD, FL 32752  
(407) 331-0101
  - ALTERNATIVE BASIS OF DESIGN:  
2. BURKE  
LOCAL REPRESENTATIVE:  
ERNESTO SANTANA  
TOPLINE RECREATION, INC.  
2922 HOWLAND BLVD., DELTONA FL 32725  
(772) 643-4414
  - PLAYWORX PLAYSET, LLC  
LOCAL REPRESENTATIVE:  
TRACY GILL  
LITTLE TIKES COMMERCIAL  
7025 COUNTY ROAD 40A, LAKE MARY FL 32746  
(386) 697-4426
- THE SELECTED MANUFACTURERS SHALL PROVIDE AND CERTIFY THAT THIS PLAY STRUCTURE CONFORMS TO ACCESSIBILITY REQUIREMENTS OF 2010 A.D.A. (AMERICANS WITH DISABILITIES ACT)
- ALL PLAYGROUND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER STANDARDS AND SPECIFICATIONS
- CONTRACTOR SHALL PROVIDE PLAYGROUND SHOP DRAWINGS/RENDERINGS FOR REVIEW AND APPROVAL BY ORANGE COUNTY.
- PLAYGROUND EQUIPMENT AND RESILIENT SURFACE SHALL BE FURNISHED AND INSTALLED BY PLAYGROUND MANUFACTURER REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH PLAYGROUND INSTALLER FOR PLACEMENT OF ALL EQUIPMENT. PLAYGROUND EQUIPMENT COLOR TO BE SELECTED BY OWNER.
- ALL PLAY EQUIPMENT DESIGN AND CONNECTIONS SHALL BE IN COMPLIANCE WITH ASTM F1487-11.
- ALL PROTECTIVE SURFACING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH ASTM F1292, F1951, F2076, F2223, F2479 AND F1487. COLOR TO BE SELECTED BY OWNER.
- ALL EQUIPMENT TO BE ASBESTOS FREE.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED FOR DESIGN & CONSTRUCTION OF FOUNDATION SYSTEM IF AN APPROVED EQUAL SHELTER IS UTILIZED.
- SUBSTITUTION REQUEST WILL BE CONSIDERED IN ACCORDANCE WITH PROCEDURES IN SPECIFICATION SECTION 01631





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FL LIC. # AA0002264  
PROJECT TITLE AND OWNERS NAME

ORANGE COUNTY  
LAKESIDE  
VILLAGE PARK  
PHASE II

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalaghchi P.E. 41046

REVISIONS

90% SUBMITTAL	10-2-18
RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
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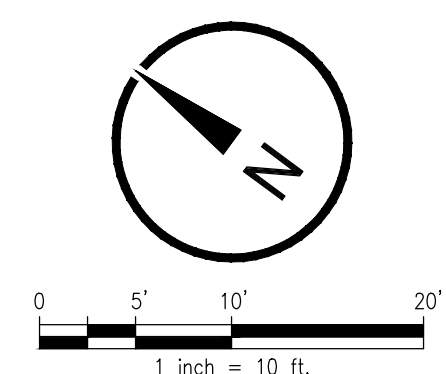
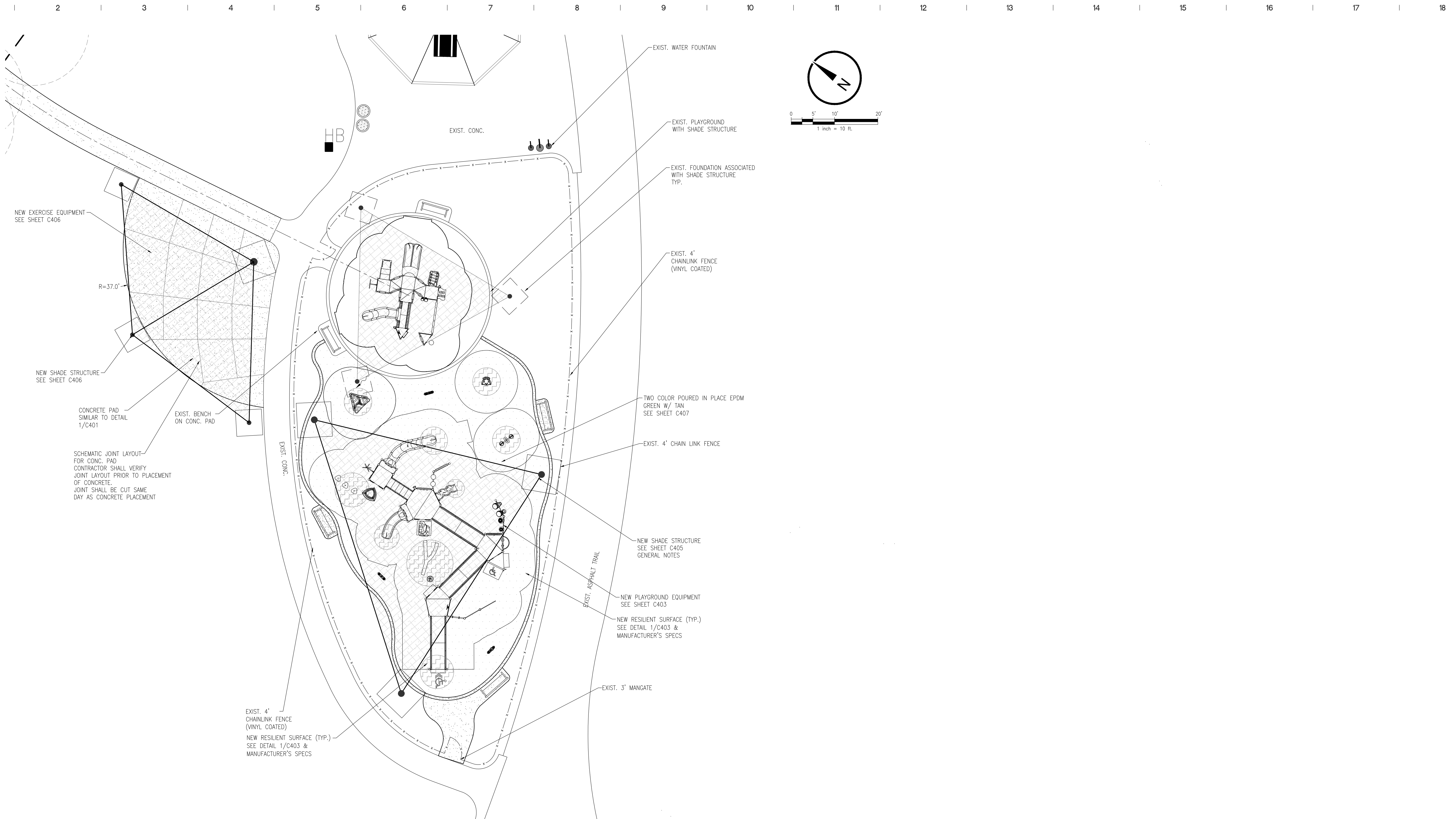
PLAYGROUND PIP  
PLAN + DETAILS

DRAWING NUMBER

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**SKConsortium, Inc.**  
1053 N. ORLANDO AVE. SUITE 3 MAILLAND FLORIDA 32751  
TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 E# 7080

C404

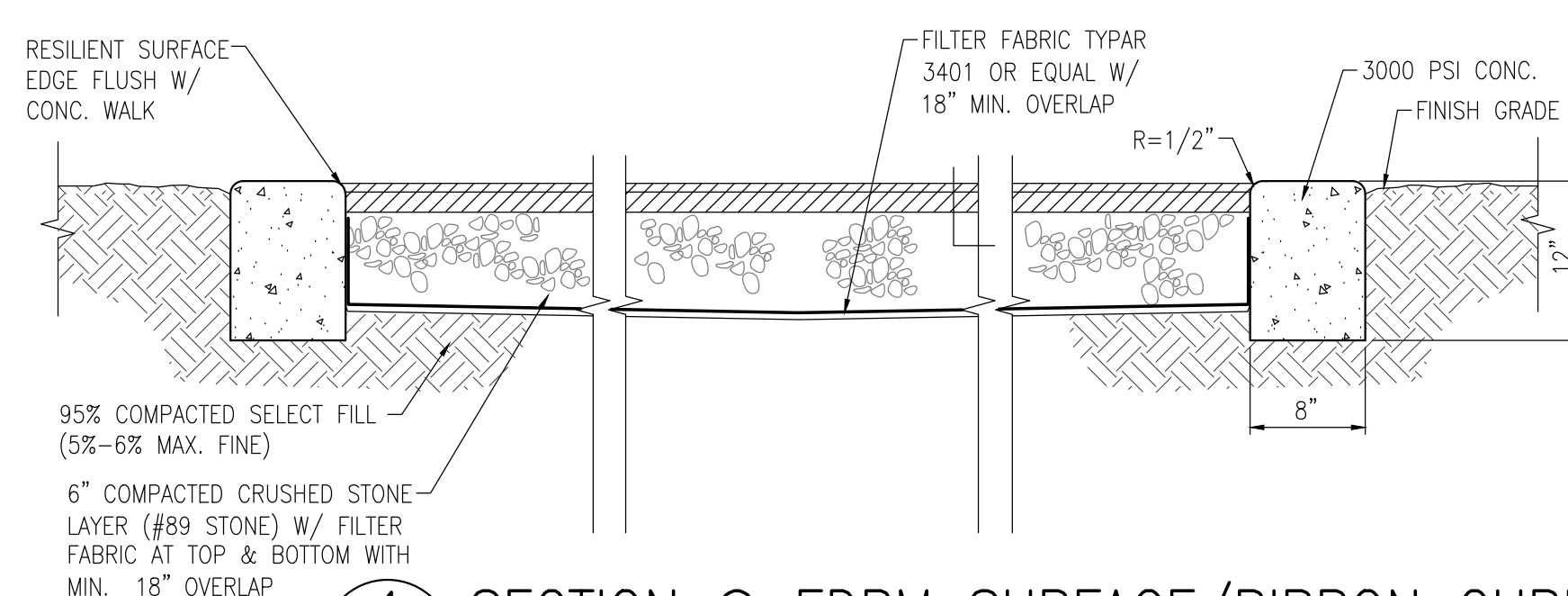
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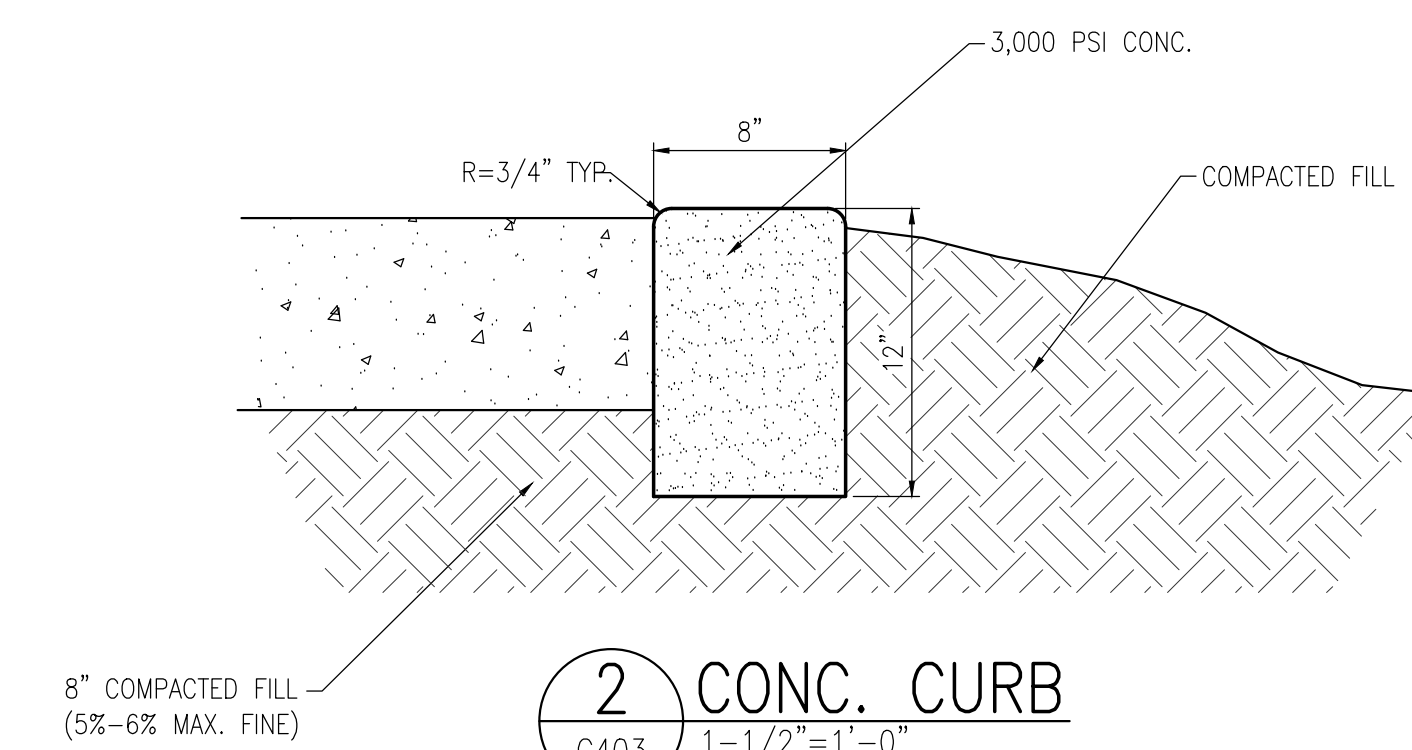
PLAYGROUND PIP PLAN  
1"=10'-0"

GENERAL NOTE:

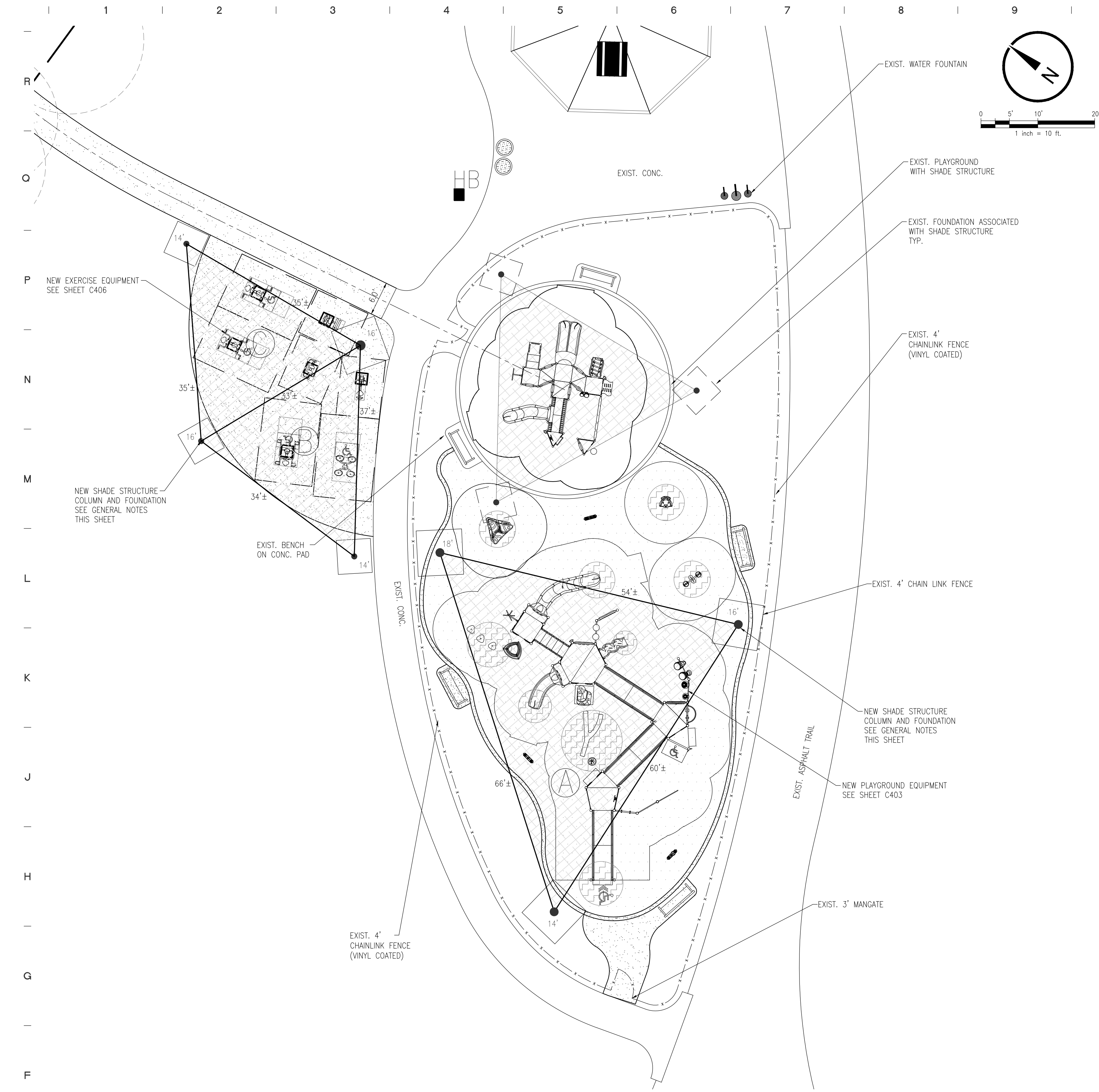
1. PLAYGROUND EQUIPMENT AND RESILIENT SURFACE SHALL BE FURNISHED AND INSTALLED BY PLAYGROUND MANUFACTURER REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH PLAYGROUND INSTALLER FOR PLACEMENT OF ALL EQUIPMENT.
2. SEE PLAYGROUND RENDERINGS FOR POURED IN PLACE RESILIENT SURFACE PATTERN AND COLOR. CONTRACTOR SHALL VERIFY THE PATTERN AND COLOR WITH OC REPRESENTATIVE PRIOR TO PLACEMENT.



1 SECTION @ EDPM SURFACE/RIBBON CURB  
C403 NOT TO SCALE



2 CONC. CURB  
C403 1-1/2"=1'-0"



**GENERAL NOTES-SUN SHADE FABRIC STRUCTURES**

DESIGN BASIS USED FOR SHADE STRUCTURE: SHADE SYSTEM LARGE SAIL AT PLAY AREA, 1530 SF  
 SHADE SAIL A: 54'-x60'-x66'± (1), TRIANGULAR RIVERGUM GREEN SHADE CLOTH,  
 JET BLACK POWDER COATED COLUMN,  
 COLUMN HEIGHTS: (1)18', (1) 14', (1) 16'  
 MEDIUM SAIL AT FITNESS AREA, 510 SF & 507 SF  
 SHADE SAIL B: 34'-x37'-x33'± (1), TRIANGULAR LIGHT BLUE SHADE CLOTH,  
 SHADE SAIL C: 35'-x35'-x33'± (1), TRIANGULAR LIGHT BLUE SHADE CLOTH,  
 JET BLACK POWDER COATED COLUMN,  
 COLUMN HEIGHTS: (2) 14', (2) 16'  
 FABRIC: BLUE

REPRESENTATIVE:  
 SHADE SYSTEMS, INC.  
 LOCAL REPRESENTATIVE:  
 ERNESTO SANTANA  
 4150 SW 19TH ST., OCALA, FL 34474  
 (772) 643-4414

SUPERIOR RECREATIONAL PRODUCTS  
 KOLKAT  
 1050 COLUMBIA DR., CARROLLTON, GA 30117  
 (770) 214-9322

GT SHADE  
 LOCAL REPRESENTATIVE:  
 JOELLEN GREEN  
 DOMINICA RECREATION PRODUCTS P.O. BOX  
 520700 LONGWOOD, FL 32752  
 (407) 331-0101

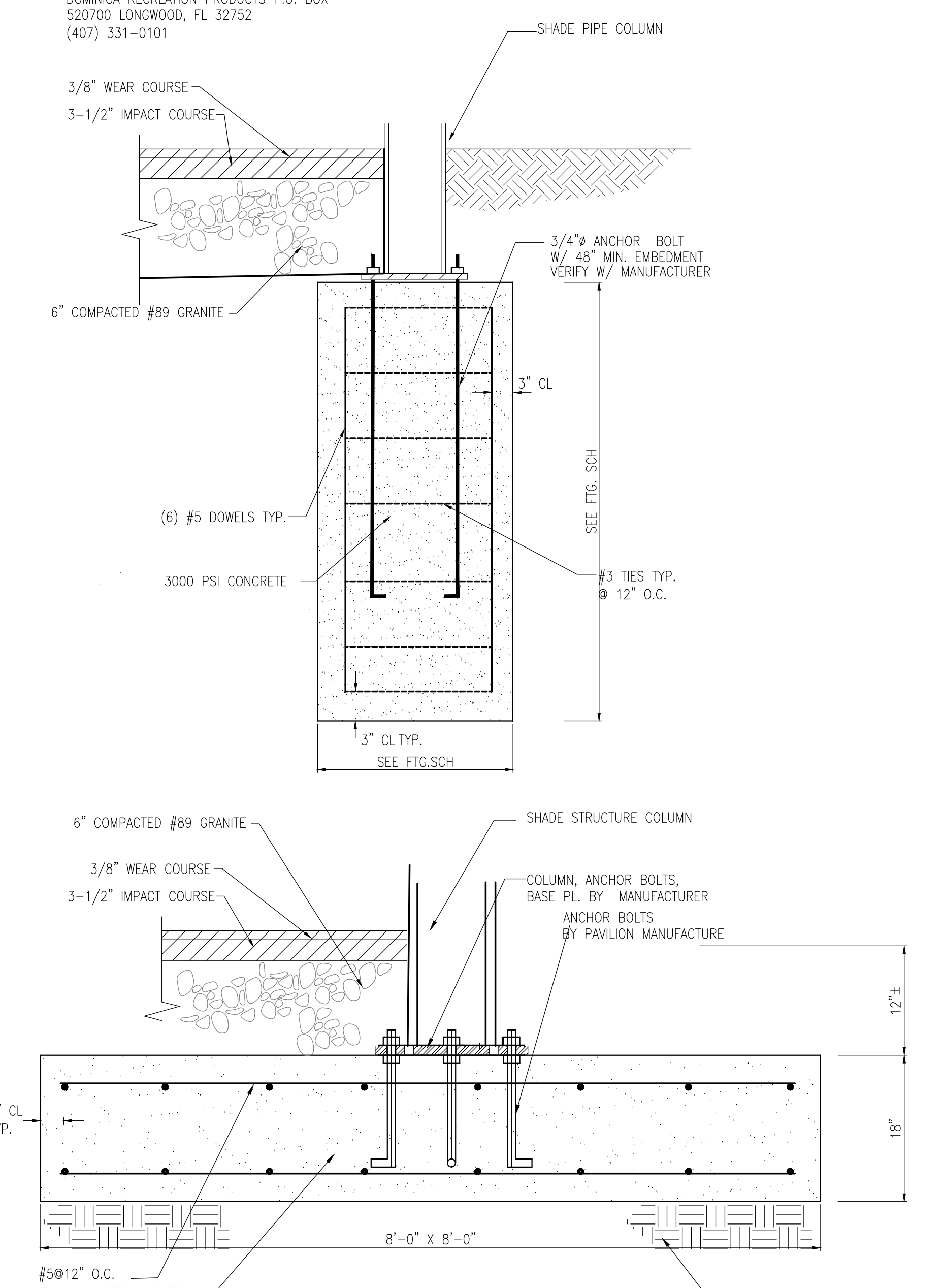
**SHADE STRUCTURE GENERAL NOTES:**

- FABRIC SPECIFICATIONS
  - UV SHADE FABRIC SHALL BE MADE OF UV STABILIZED CLOTH MANUFACTURED BY ALNET, OR APPROVED EQUAL.
  - THE HIGH DENSITY POLYETHYLENE MATERIAL SHALL BE MANUFACTURED WITH TENSIONED FABRIC STRUCTURES IN MIND.
  - THE FABRIC KNOT IS TO BE MADE USING MONOFILAMENT AND TAPE FILLER WHICH HAS A WEIGHT OF 9.38 TO 10.32 OUNCE PER SQUARE YARD. MATERIAL SHALL BE RACHEL-KNITTED TO INSURE MATERIAL WILL NOT UNRAVEL IF CUT.
  - BURST STRENGTH OF 828 LBFT (ASTM 3786)
  - CLOTH SHALL MEET FIRE RESISTANCE TESTS AS FOLLOWS:  
 ALNET EXTRA BLOCK: CALIFORNIA STATE FIRE MARSHALL REG. #F-93501  
 NFPA 701-99 (TEST METHOD 2)  
 OTHERS: ASTM E-84
  - FABRIC PROPERTIES:  
 STRETCH: STENTORED 150%  
 TEAR TESTS (LBS/FT): WARP 44.8, WEFT 44  
 BURST TESTS (LBS FT): 828  
 FABRIC WEIGHT (OZ/SF) AVG: 1.02 TO 1.07  
 FABRIC WIDTH: 9'-10"  
 ROLL LENGTH: 150'  
 ROLL SIZE: 63"x16.5"  
 WEIGHT: 120 LBS.  
 LIFE EXPECTANCY: 10 YEARS  
 MINIMAL FADING AFTER 6 YEARS  
 FADING NOTE: 3 YEARS FOR RED AND YELLOW  
 TEMPERATURE: -77 DEGREES  
 MAXIMUM TEMPERATURE: +167 DEGREES
- SHALL BE 100% EXPANDED PTFE FIBER WHICH CARRIES A 10 YEAR WARRANTY THAT IS HIGH STRENGTH AND LOW SHRINKAGE.
  - SHALL HAVE A WIDE TEMPERATURE AND HUMIDITY RANGE.
  - ABRASION RESISTANT AND UV RADIATION INERT.
  - SHALL BE UNAFFECTED BY NO-HYDROCARBON BASED CLEANING AGENTS, ACID RAIN, MILDEW, ROT, CHLORINE, SALTWATER, AND POLLUTION.
  - LOCKSTITCH THREAD - 1200 DENIER OR EQUAL.
  - CHAIN STITCH THREAD - 2400 DENIER OR EQUAL.
- STEEL TUBING
  - ALL FABRICATED STEEL MUST BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND CALCULATIONS.
  - ALL STEEL IS CLEANED, DEGREASED, OR ETCHED TO ENSURE PROPER ADHESION OF POWDER-COAT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - ALL STEEL USED ON THIS PROJECT NEEDS TO BE NEW AND ACCOMPANIED BY THE MILL CERTIFICATES IF REQUESTED. STRUCTURAL STEEL TUBING UP TO 5" - 7" GAUGE SHALL BE GALVANIZED PER ALLIED STEEL, FLO-COAT SPECIFICATIONS, SCHEDULE 40 BLACK PIPE FABRICATION SHALL BE SANDBLASTED AND PRIMED AS DESCRIBED BELOW.
  - ALL NON-HOLLOW STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A-53 GRADE C, UNLESS OTHERWISE NOTED.
  - PLATE PRODUCTS SHALL COMPLY WITH ASTM A-36.
  - POWDER COATING AND PRIMING
    - ALL NON-GALVANIZED STEEL SHALL BE SANDBLASTED AND PRIMED PRIOR TO POWDER COATING USING BROWN FUSED ALUMINUM OXIDE GRIT AND THE FOLLOWING PRIMER.
    - ALL NON-GALVANIZED STEEL MUST BE COATED WITH RUST INHIBITING PRIMER PRIOR TO APPLYING THE POWDER COAT. PRIMER SHALL BE MARINE GRADE CARDINAL INDUSTRIAL FINISHES CORP. E396 - GR1372 EPOXY POWDER COATING SEMI-GLOSS SMOOTH ZINC RICH PRIMER.
    - WELDS SHALL BE PRIMED WITH RUST INHIBITING PRIMER PRIOR TO APPLYING THE POWDER COAT. PRIMER SHALL BE MARINE GRADE CARDINAL INDUSTRIAL FINISHES CORP. E396 - GR1372 EPOXY POWDER COATING SEMI-GLOSS SMOOTH ZINC RICH PRIMER.
    - ALL STEEL PARTS SHALL BE PROTECTED AND FINISHED WITH A MINIMUM 3.5 MIL THICK UV-INHIBITED WEATHER RESISTANT POWDER COATING.
    - CHARACTERISTICS: POWDER USED IN THE POWDER-COAT PROCESS SHALL HAVE THE FOLLOWING CHARACTERISTICS:
 

N.3.1	SPECIFIC GRAVITY	1.88+/- 0.05
N.3.2	THEORETICAL COVERAGE	114+/- 4FT <sup>2</sup> /LB/MIL
N.3.3	MASS LOSS DURING DURE	<1%
N.3.4	MAXIMUM STORAGE TEMPERATURE	75 DEGREES F
    - POWDER-COATING SHALL MEET THE FOLLOWING TESTS:
 

ASTM	GLOSS AT 60 DEGREE	85-95
HOT TM 10.219	PCI POWDER SMOOTHNESS	7
ASTM D2454-91	OVER-BAKE RESISTANCE TIME	200%
ASTM D3363-92	PENCIL HARDNESS	H-2H
ASTM D2794-93	DIR/REV IMPACT, GARDNER	14940 IN/LBS
ASTM D3359-95	BADHESION, CROSS HATCH	5B PASS
ASTM D522-93A	FLEXIBLE MANDREL	1/4" DIA. NO FRACTURE
ASTM B117-95	SALT SPRAY	1,000 HOURS
UL D1042	ORGANIC COATING STEEL ENCLOSURES, ELECT. EO.	RECOGNIZED
- APPLICATION CRITERIA
  - ELECTROSTATIC SPRAY COLD
  - CURE SCHEDULE: SUBSTRATE-0.032 IN. CRS 10 MIN. AT 400 DEGREES F
  - PRETREATMENT: BONDERITE 1000
  - FILM THICKNESS: 3.5 MILS
- WELDING
  - ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.
  - WELDING PROCEDURES SHALL COMPLY IN ACCORDANCE WITH THE AWS D1.1-AWS STRUCTURAL WELDING CODE-STEEL.
  - ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.
  - ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70X0.35 WIRE.
  - SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE INDICATED ON DRAWINGS. FIELD-WELDED CONNECTIONS ARE NOT ACCEPTABLE.
  - ALL FILLET WELDS SHALL BE A MINIMUM F0 1/4" UNLESS OTHERWISE NOTED.
  - INTERNAL WELD SLEEVING IS NOT ACCEPTABLE.
  - ON-SITE WELDING OF ANY COMPONENT IS NOT ACCEPTABLE.
- SEWING
  - ON-SITE SEWING OF A FABRIC WILL NOT BE ACCEPTED.
  - ALL CORNERS SHALL BE REINFORCED WITH EXTRA NON-TEAR CLOTH AND STRAP TO DISTRIBUTE THE LOAD.
  - THE PERIMETERS THAT CONTAIN THE CABLES SHALL BE DOUBLE LOCK STITCHED.
- INSTALLATION HARDWARE
  - BOLT AND FASTENING HARDWARE SHALL BE DETERMINED BASED ON CALCULATED ENGINEERING LOADS.
  - ALL BOLTS SHALL COMPLY WITH SAE-1429 (GRADE 8) OR ASTM A325 (GRADE B8). ALL NUTS SHALL COMPLY WITH ASTM F-594, ALLOY GROUP 1 OR 2.
  - UPON REQUEST, STAINLESS STEEL HARDWARE SHALL COMPLY WITH ASTM A-304.
  - 1/4" GALVANIZED WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 7,000 LBS. FOR SHADES GENERALLY UNDER 575 SQ.FT., CABLE SHALL BE 3/8" WITH A BREAKING STRENGTH OF 9,800 LBS. UPON REQUEST, 1/4" STAINLESS STEEL WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 6,400 LBS. 3/8" STAINLESS STEEL WIRE ROPE SHALL BE 7X19 STRAND WITH A BREAKING STRENGTH OF 9,000 LBS.
  - ALL FITTINGS REQUIRED FOR PROPER SECURING OF THE CABLE ARE HOT DIPPED GALVANIZED.
- CONCRETE
  - CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN CONCRETE BUILDING CODE ACI 318 UNLESS SPECIFIED BY THE GOVERNING MUNICIPALITY.
  - CONCRETE SPECIFICATIONS SHALL COMPLY IN ACCORDANCE WITH, AND DETAILED AS PER PLANS AS FOLLOWS:
    - 28 DAYS STRENGTH F'c = 3000 PSI
    - AGGREGATE: HR
    - SUMP: 3-5
    - PORTLAND CEMENT SHALL CONFORM TO C-150
    - AGGREGATE SHALL CONFORM TO ASTM C-33
    - ALL REINFORCEMENT SHALL CONFORM TO ASTM A-615 GRADE 60.
    - REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL AND MANUAL OF STANDARD PRACTICE.
    - WHENEVER DAILY AMBIENT TEMPERATURES AREA BELOW 80 DEGREES FAHRENHEIT, THE CONTRACTOR MAY HAVE MIX ACCELERATORS AND HOT WATER ADDED AT THE BATCH PLANT (SEE TABLE 1).
 

TEMPERATURE RANGE	% ACCELERATOR	TYPE ACCELERATOR
75-80 DEGREES (NON CALCIUM)	1%	HIGH EARLY (NON CALCIUM)
70-75 DEGREES (CALCIUM)	2%	HIGH EARLY (NON CALCIUM)
BELOW 70 DEGREES (CALCIUM)	3%	HIGH EARLY (NON CALCIUM)
  - FOOTINGS
    - ALL ANCHOR BOLTS SET IN NEW CONCRETE SHALL BE ASTM A-307, OR ASTM F-1554 IF SPECIFIED BY ENGINEER.
    - ALL ANCHOR BOLTS SHALL BE ZINC PLATED UNLESS SPECIFIED OTHERWISE.
    - FOOTING SHALL BE PLACE IN ACCORDANCE WITH AND CONFORM TO ENGINEERED SPECIFICATIONS AND DRAWINGS.
- CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND FOUNDATION PLANS ALONG WITH NECESSARY CALCULATIONS AND BE RESPONSIBLE FOR SUBMISSION FOR PERMIT.



**GENERAL NOTES:**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH SHADE MANUFACTURER PRIOR TO PLACEMENT OF CONCRETE.
- VERIFY SIZE AND SPACING OF ANCHOR BOLTS WITH SHELTER MANUFACTURER.

**DESIGN BASIS:**

PER FLORIDA BUILDING CODE 2016 EDITION  
 ULTIMATE DESIGN WIND LOAD=130 MPH (FIG. 1609C)  
 RISK CATEGORY I (SCREEN WALLS, ENCLOSURE)  
 NOMINAL DESIGN WIND LOAD = 101 MPH (TABLE 1609.3.1)  
 WIND EXPOSURE: C  
 INTERNAL PRESSURE COEFFICIENT: ±0.18

WIND DIRECTION	INTERNAL PRESSURE COEFFICIENT	EXTERNAL PRESSURE COEFFICIENT
WINDWARD WALL	±0.18	±0.18
WINDWARD ROOF	±0.18	±0.18
LEEWARD WALL	±0.18	±0.18
LEEWARD ROOF	±0.18	±0.18
WINDWARD WALL	±0.18	±0.18
WINDWARD ROOF	±0.18	±0.18
LEEWARD WALL	±0.18	±0.18
LEEWARD ROOF	±0.18	±0.18

NOTE: TO OBTAIN NOMINAL "ASD" WIND PRESSURES  
 MULTIPLY VALUES SHOWN ON TABLE BY A FACTOR OF 0.6

**GENERAL NOTES SHADE FOUNDATION:**

- CONCRETE FOUNDATION DIMENSION TO BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.
- ANCHOR BOLT SIZE AND SPACING PER SHELTER MANUFACTURER.
- CONCRETE SHALL BE 300 PSI WITH SLUMP RANGE OF 4" ±1".
- THE FOUNDATION HAS BEEN DESIGNED ASSUMING A SOIL BEARING PRESSURE OF 2000 PSI.
- THE SUBGRADE SHALL BE COMPACTED TO 95% OF SOIL MAX DENSITY.
- THE FOUNDATION SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE FOLLOWING: POLYGON ST 20MR PREFABRICATED METAL SHELTER DESIGN WIND LOAD =110MPH
- ALL STEEL REINFORCING SHALL BE GRADE 60.
- SIZE AND DEPTH OF CONC. FOOTING MAY BE ALTERED IF REQUESTED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- CONTRACTOR TO SUBMIT CERTIFIED MANUFACTURER SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL FOR PERMITTING.

**COLUMN SCHEDULE**

DESCRIPTION	QUANTITY	REMARKS
1	1	1
2	1	2
3	1	3
4	1	4
5	1	5
6	1	6
7	1	7
8	1	8
9	1	9
10	1	10
11	1	11
12	1	12
13	1	13
14	1	14
15	1	15
16	1	16
17	1	17
18	1	18

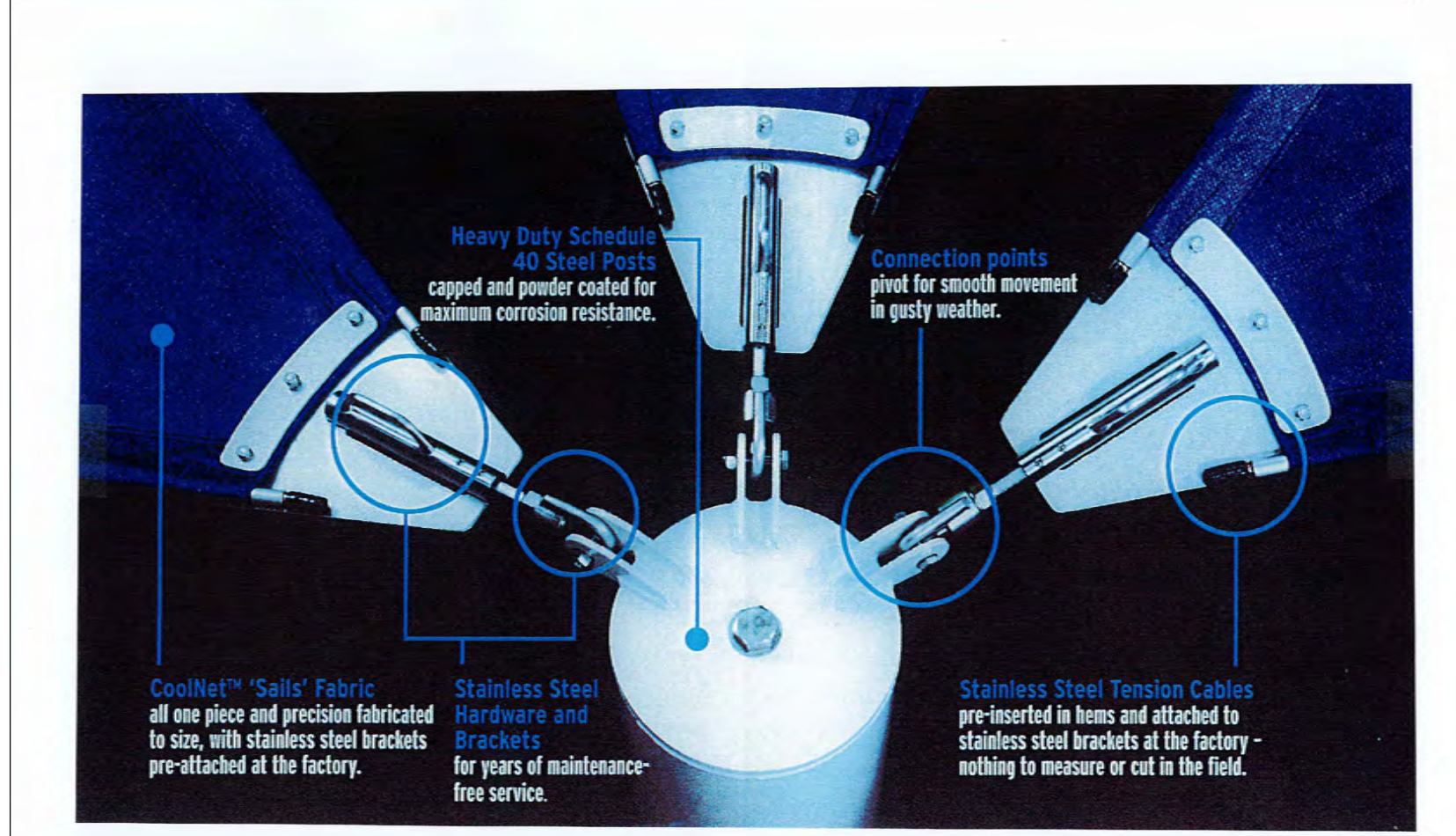
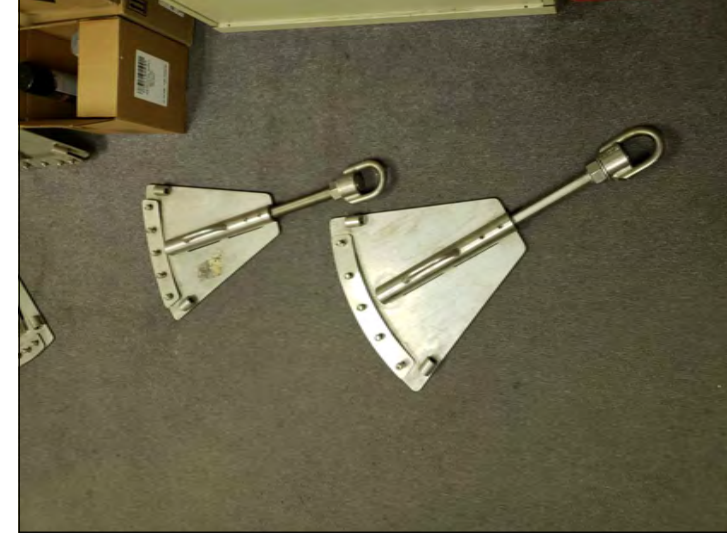
NOTE: IF ALTERNATE FOOTING SIZE IS UTILIZED  
 PROVIDE MIN. #5 REBAR AT 12" O.C EACH WAY TOP & BOT.  
 ANCHOR BOLT DEPTH TO BE COORDINATED

**AREA DEVELOPMENT PLAN**  
 1"=10'-0"

**ANCHOR NOTES:**

- COLUMN HEIGHTS ARE SHOWN ON PLAN, FOR FOOTING REMARKS AND REQUIREMENTS, SEE DETAIL.
- BASE PLATE BOLT HOLE DIAMETER SHALL NOT EXCEED ANCHOR BOLT DIAMETER PLUS 1/8" TYPICAL.
- PROVIDE STANDARD HARDENED WASHER FOR ANCHOR 1/2" BOLT AT BASE PLATE.
- COLUMN BASE PLATE AND ANCHOR BOLTS SHALL BE ENCASED IN 3500 PSI CONCRETE AS SHOWN IN SPECIFICATIONS. CONCRETE FOOTING SHALL PIER TYPE TO MINIMIZE IMPACT ON EXISTING PARK ELEMENTS TO REMAIN.
- CONTRACTOR TO PROVIDE STAINLESS STEEL SHADE SAIL CONNECTION PLATES DEPICTED BELOW OR APPROVED EQUAL.

**STAINLESS STEEL SHADE SAIL CONNECTION PLATE:**



**mri**  
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 ORLANDO, FLORIDA 32801  
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 FL LIC. # AA0002264  
 PROJECT TITLE AND OWNERS NAME

**ORANGE COUNTY  
 LAKESIDE  
 VILLAGE PARK  
 PHASE II**

**ORANGE  
 COUNTY  
 GOVERNMENT  
 FLORIDA**

SEAL AND SIGNATURE

Seal: Majid Kalagchi P.E. 41046

REVISIONS

90% SUBMITTAL	10-2-18
RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
90% RESUBMITTAL	5-8-19
100% SUBMITTAL	6-6-19

DRAWN BY  
 D. FORSYTH

CHECKED BY  
 M. KALAGCHI

JOB NUMBER  
 1858

DATE  
 XXX

DRAWING TITLE  
 SHADE STRUCTURE PLAN

DRAWING NUMBER

URBAN DESIGN PLANNING ENGINEERING  
**SK Consortium, Inc.**  
 1053 N. ORLANDO AVE., SUITE 3 • MAITLAND • FLORIDA 32751  
 TELEPHONE 407-629-4288 • FACSIMILE 407-629-1656 • E# 7080

**C405**



ARCHITECTURAL GROUP, INC.

320 E. SOUTH STREET, SUITE 150  
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ORANGE COUNTY  
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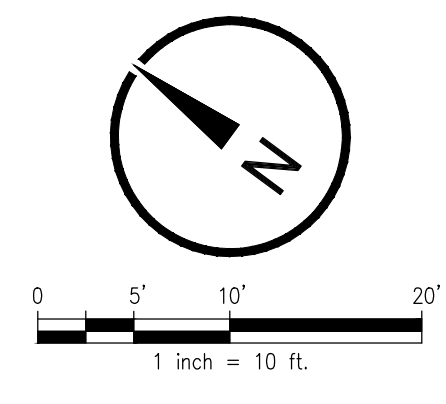
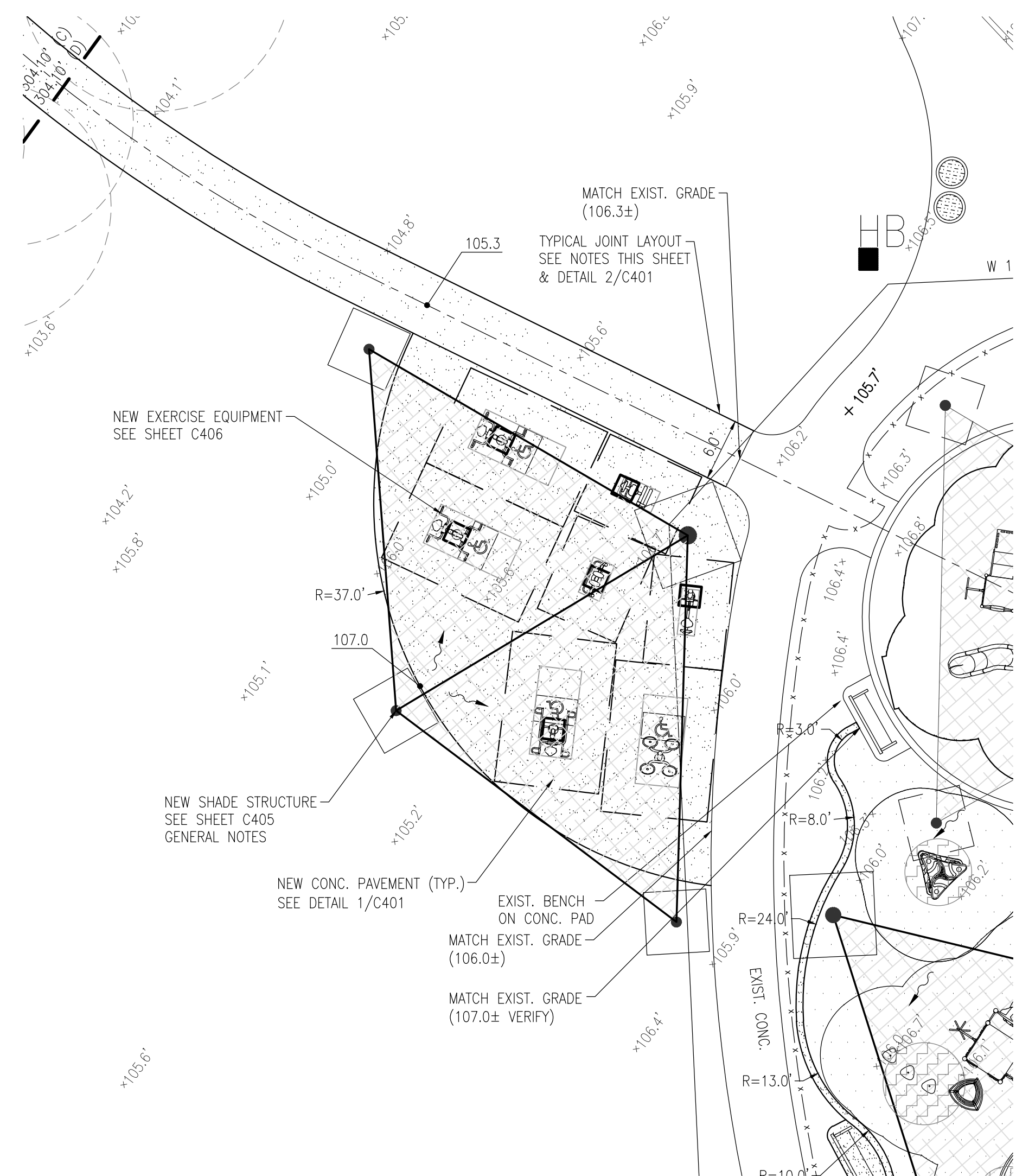
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DETAILED  
EXERCISE EQUIP.  
PLAN + DETAILS

DRAWING NUMBER

C406

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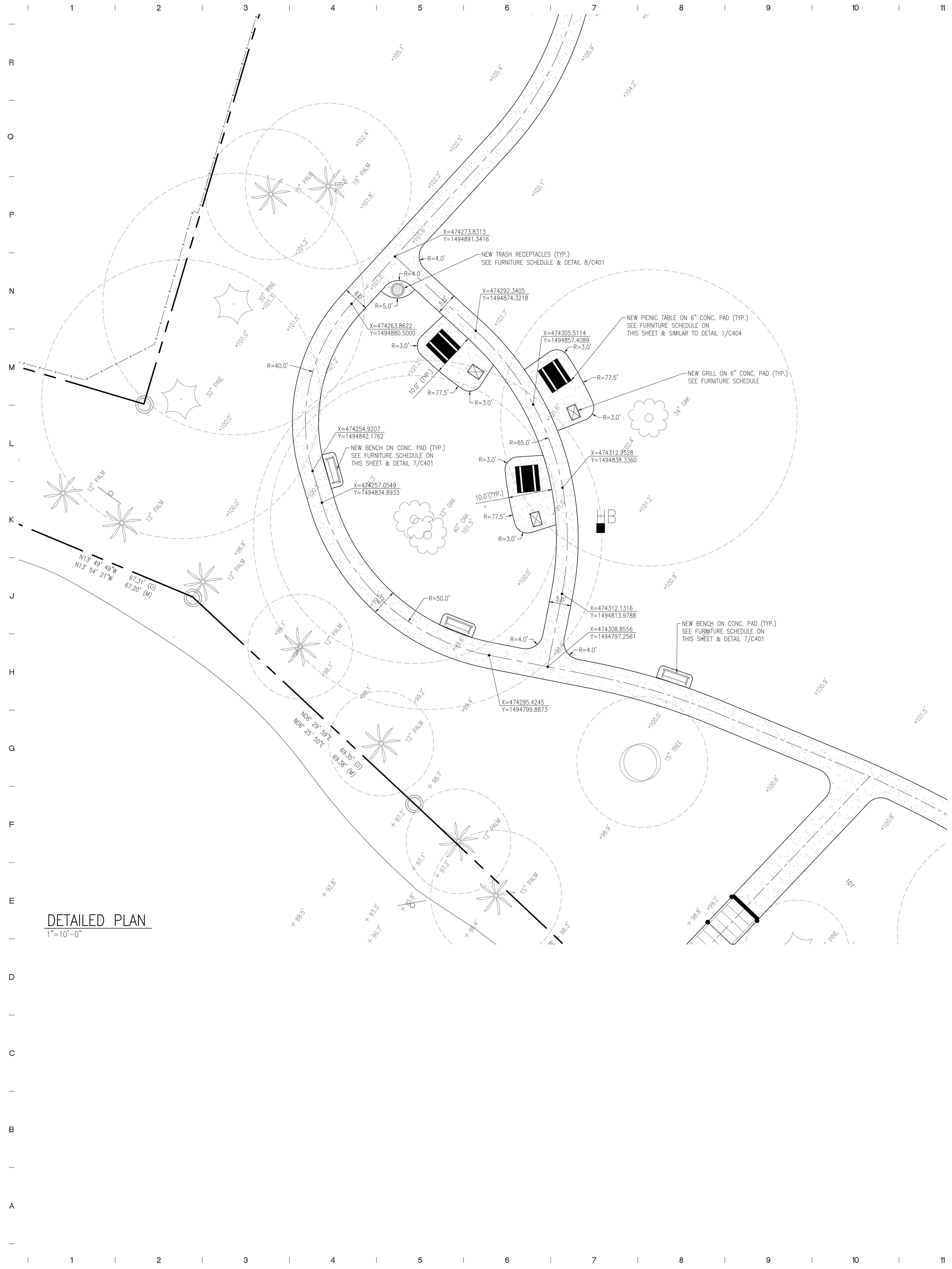


NOTE:  
SEE SHEET C101 AND C403 FOR GENERAL NOTES

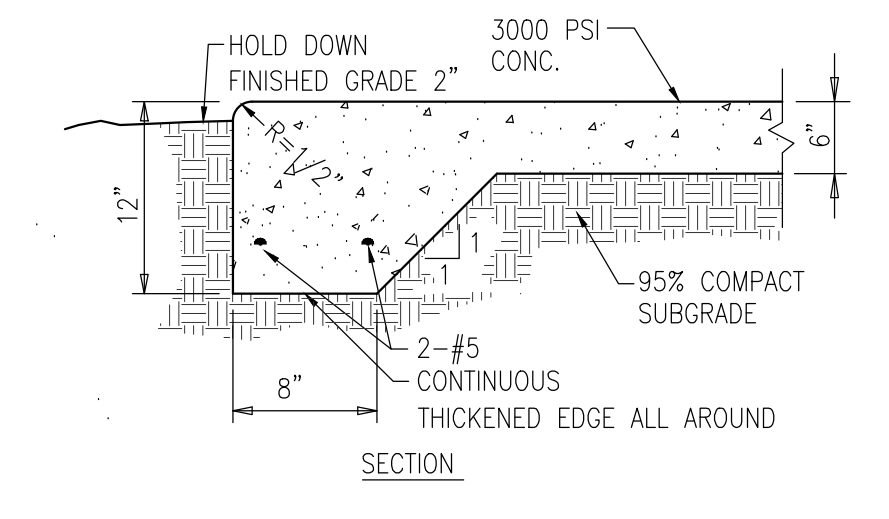
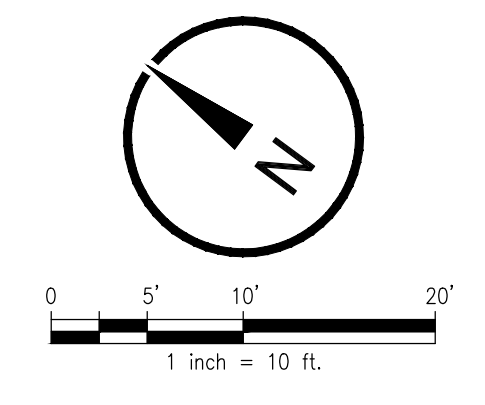
DETAILED EXERCISE EQUIP. PLAN  
1"=10'-0"

LEGEND		EXERCISE EQUIP. SCHEDULE			
SYMBOL	DESCRIPTION		ADDITIONAL INFORMATION	REPRESENTATIVES	
	LEG PRESS	1	GAMETIME, #13559	IN-GROUND MOUNT, GRAY	GAMETIME LOCAL REPRESENTATIVE: JOELLEN GREEN DOMINICA RECREATION PRODUCTS 632 FLORIDA CENTRAL PKWY LONGWOOD, FL 32750 (407) 331-0101
	LAT PULL DOWN	1	GAMETIME, ADVANCED SERIES #13272	ACCESSIBLE, IN-GROUND MOUNT, GRAY	
	LEG EXTENSION	1	GAMETIME, ADVANCED SERIES #13563	IN-GROUND MOUNT, GRAY	
	VERTICAL PRESS	1	GAMETIME, ADVANCED SERIES #13274	ACCESSIBLE, IN-GROUND MOUNT, GRAY	
	CHEST PRESS	1	GAMETIME, ADVANCED SERIES #13271	ACCESSIBLE, IN-GROUND MOUNT, GRAY	
	SHOULDER ROTATOR	1	GAMETIME, ADVANCED SERIES #13558	ACCESSIBLE, IN-GROUND MOUNT, GRAY	
	CARDIO WALKER	1	GAMETIME, ADVANCED SERIES #13562	IN-GROUND MOUNT, GRAY	

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**DETAILED PLAN**  
1"=10'-0"



**1** CONC. PAD FOR PICNIC AREA  
C404 NTS

**NOTE:**  
SEE SHEET C101 AND C403 FOR GENERAL NOTES



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**ORANGE COUNTY  
LAKESIDE  
VILLAGE PARK  
PHASE II**

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalaghchi P.E. 41046

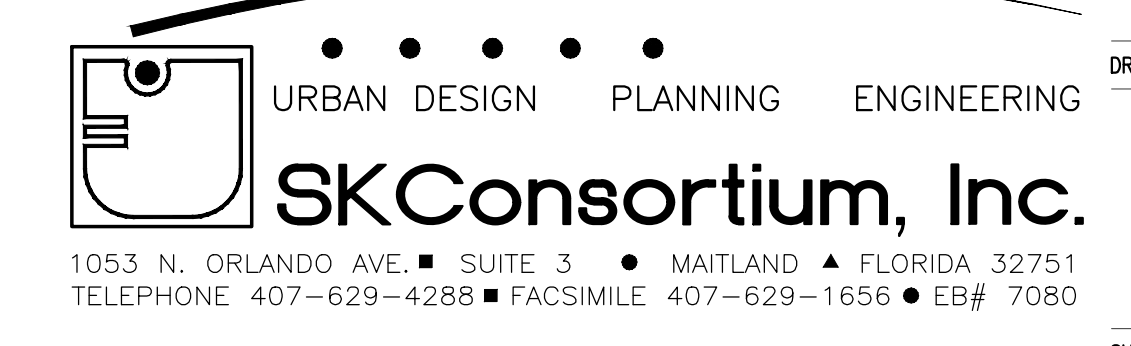
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RESUBMIT 60% CONSTRUCTION DOCS	1-22-19
90% RESUBMITTAL	5-8-19
100% SUBMITTAL	6-6-19

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D. FORSYTH  
**CHECKED BY**  
M. KALAGHCHI  
**JOB NUMBER**  
1858  
**DATE**  
XXX  
**DRAWING TITLE**

**HARDSCAPE PLAN  
- PICNIC AREA**

**DRAWING NUMBER**



1053 N. ORLANDO AVE. SUITE 3 MAILLAND FLORIDA 32751  
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**C407**



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 FL LIC. # AA0002284  
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ORANGE COUNTY  
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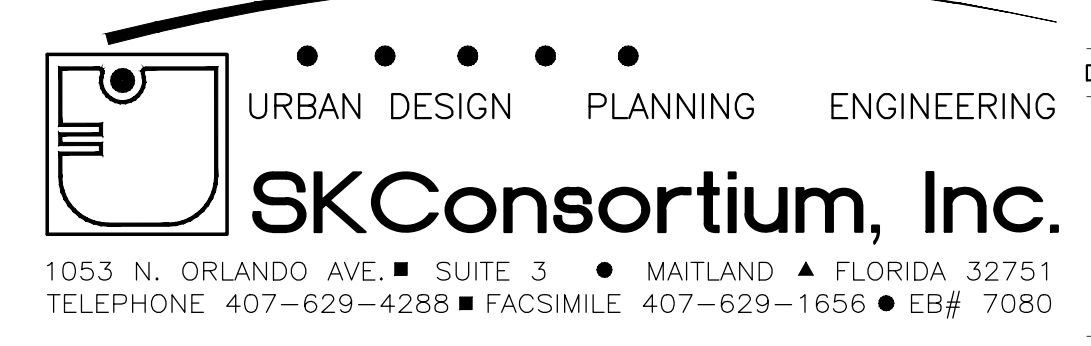
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DRAWING TITLE  
 PLAYGROUND  
 RENDERINGS

DRAWING NUMBER



C408



Playpalette: Bayou



Lakeside Village Phase 2  
 Orange County Parks & Recreation



Playpalette: Bayou



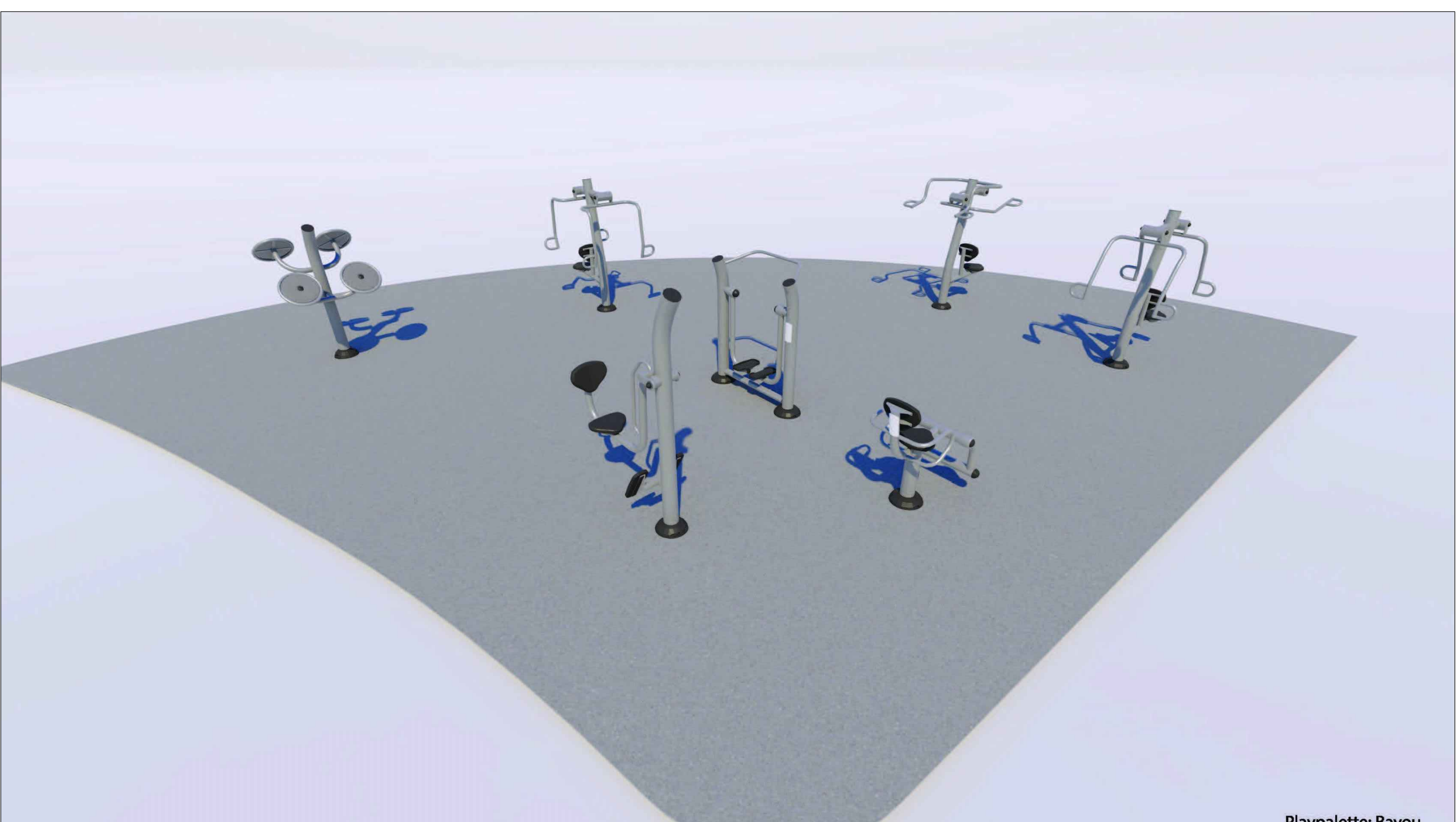
Lakeside Village Phase 2  
 Orange County Parks & Recreation



Playpalette: Bayou



Lakeside Village Phase 2  
 Orange County Parks & Recreation

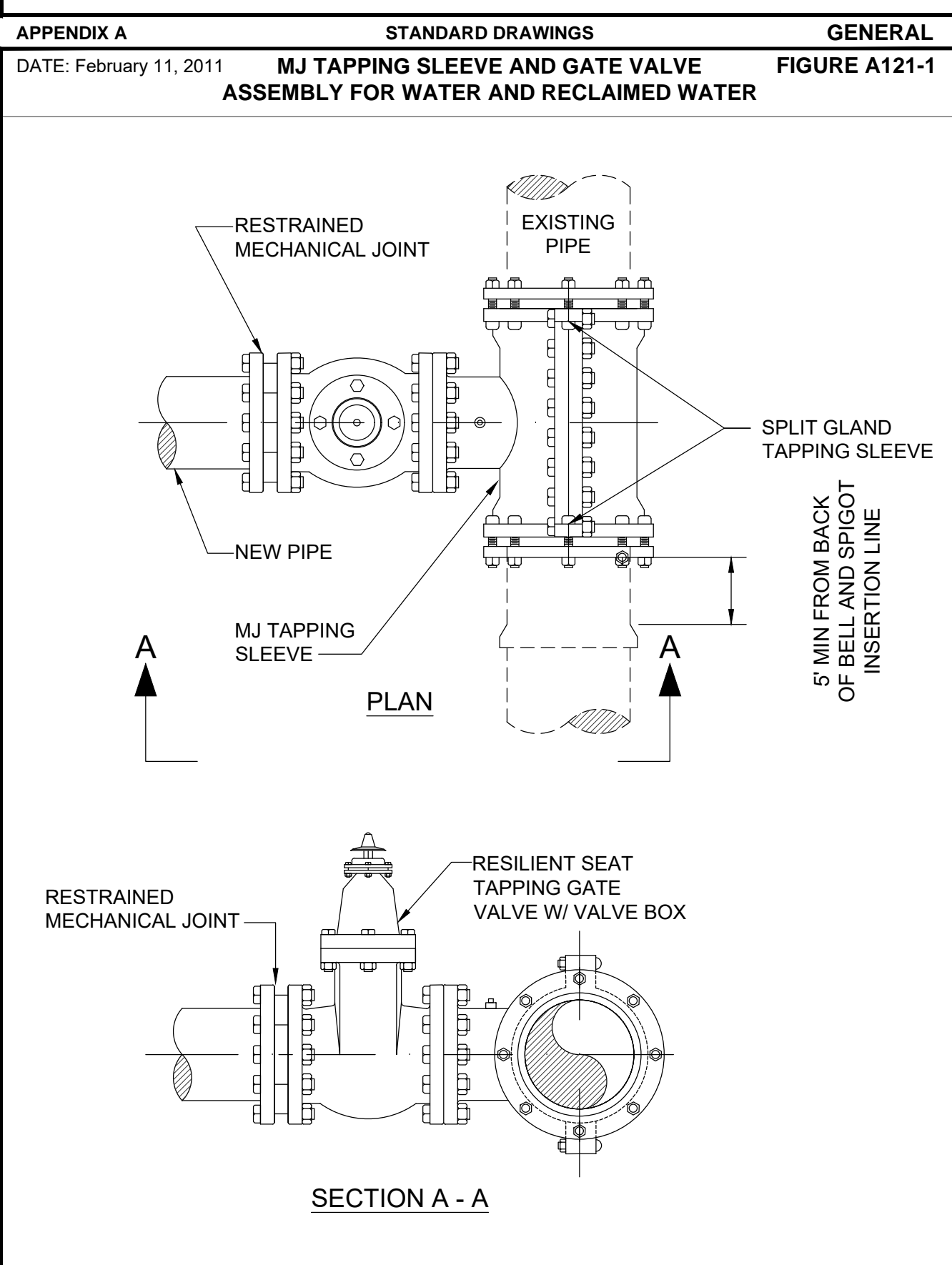
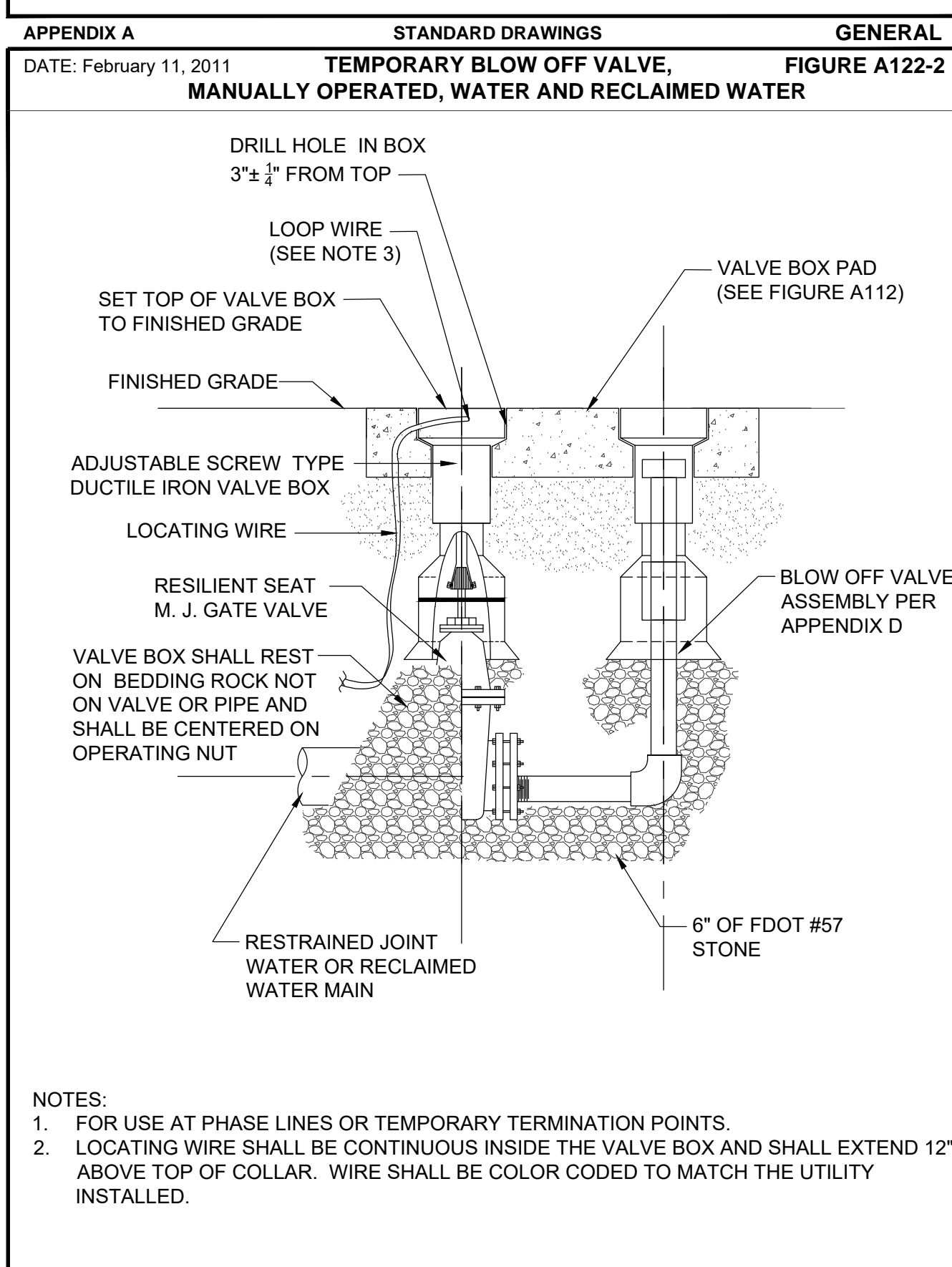
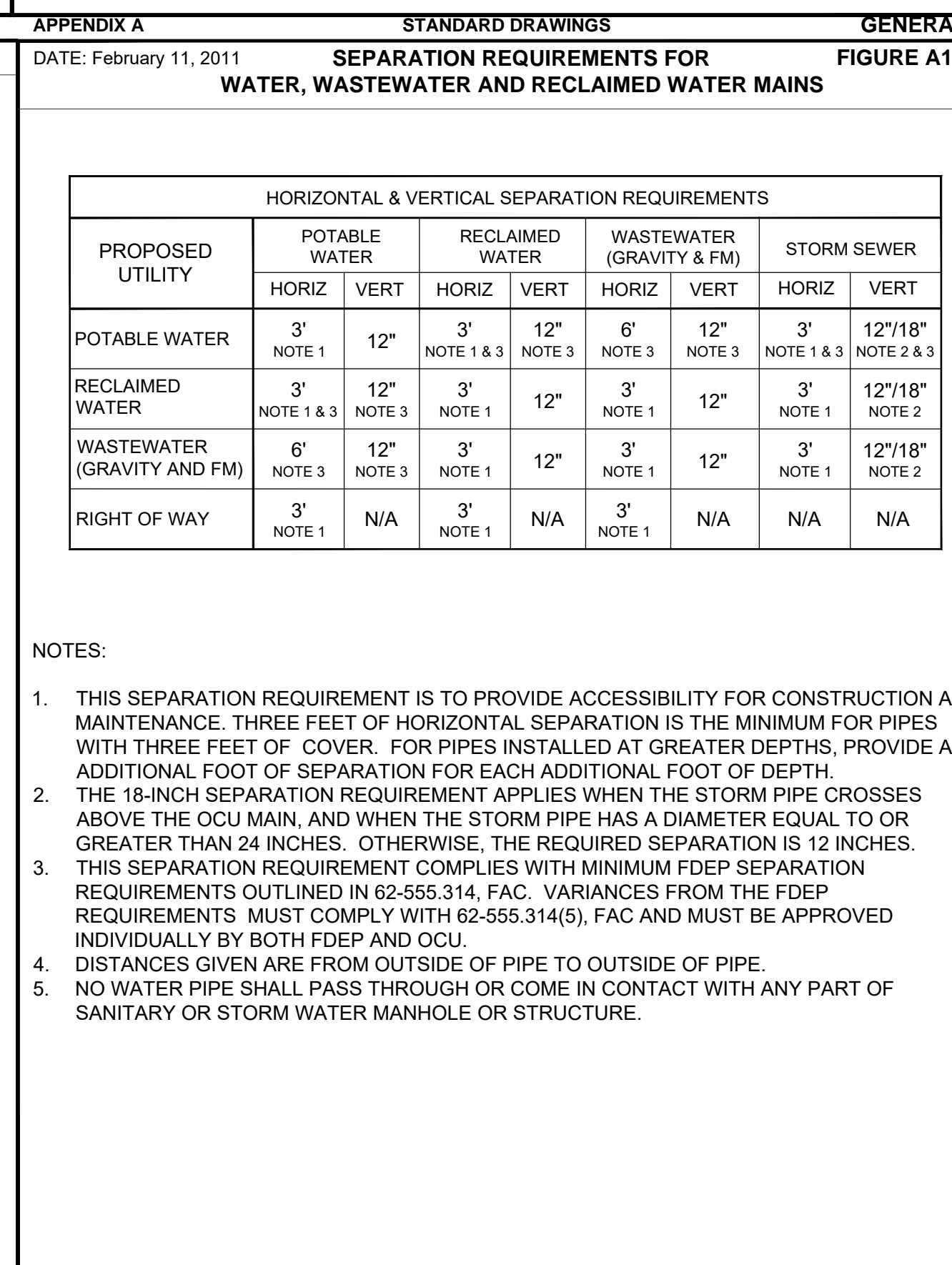
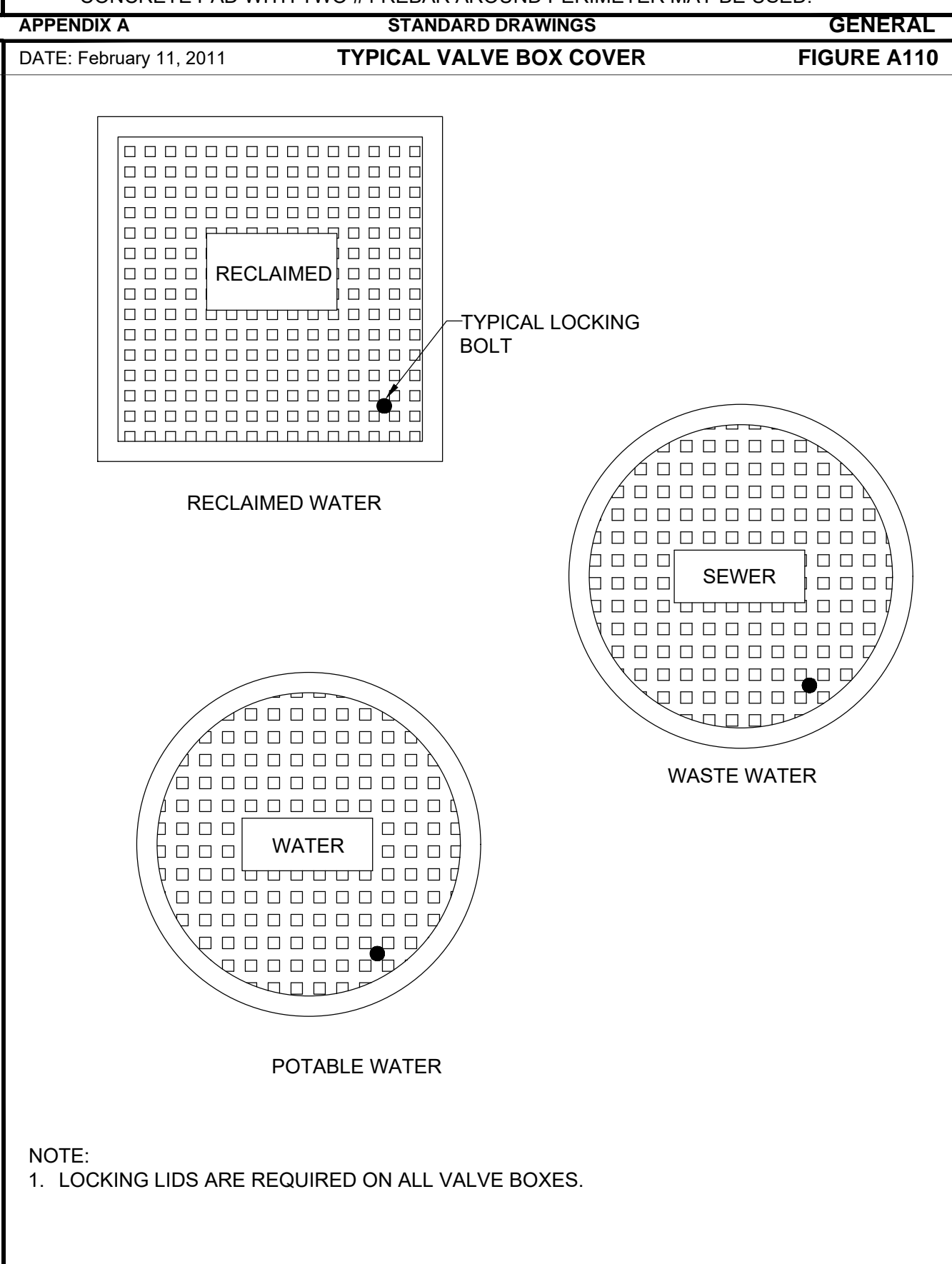
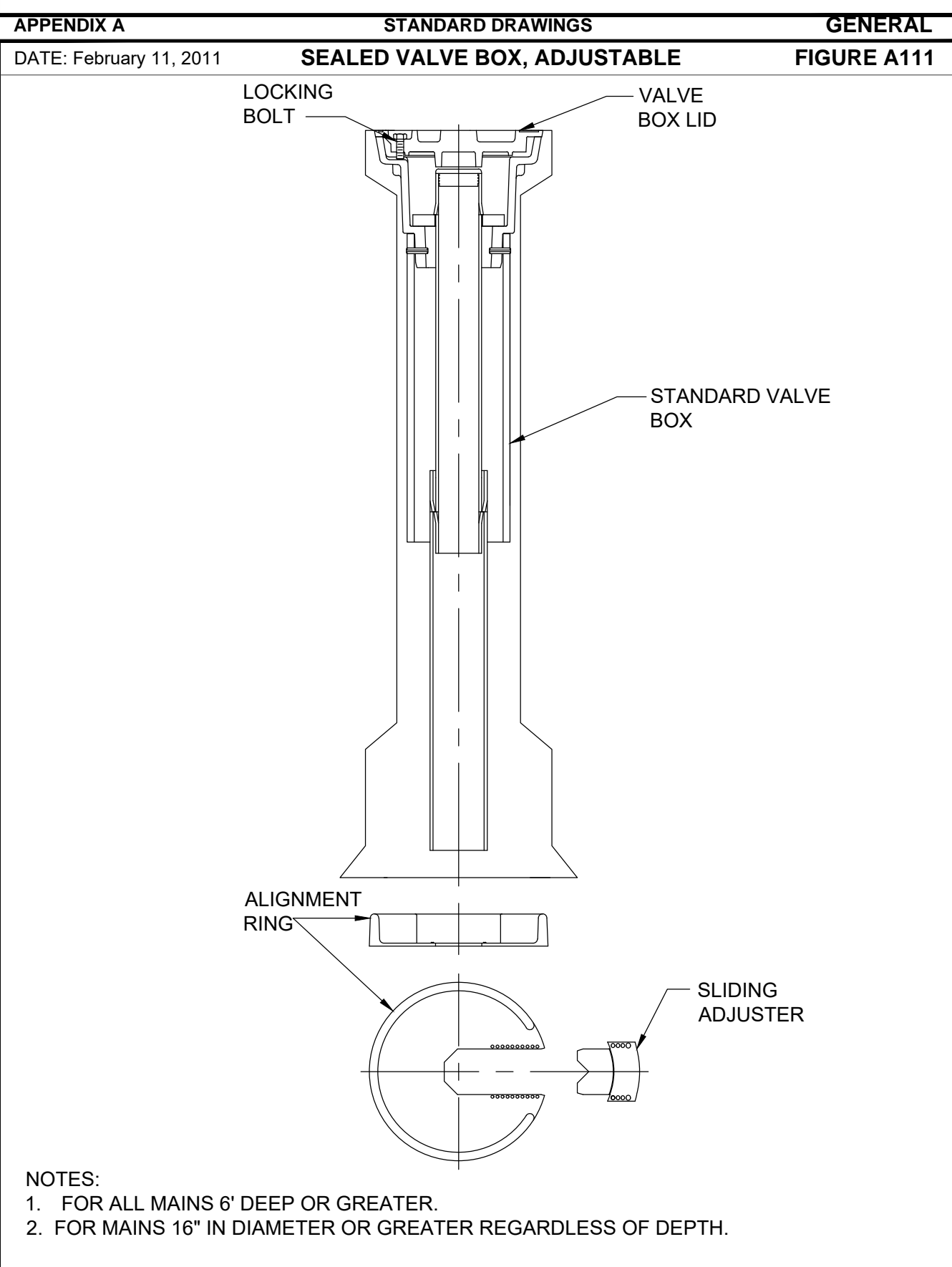
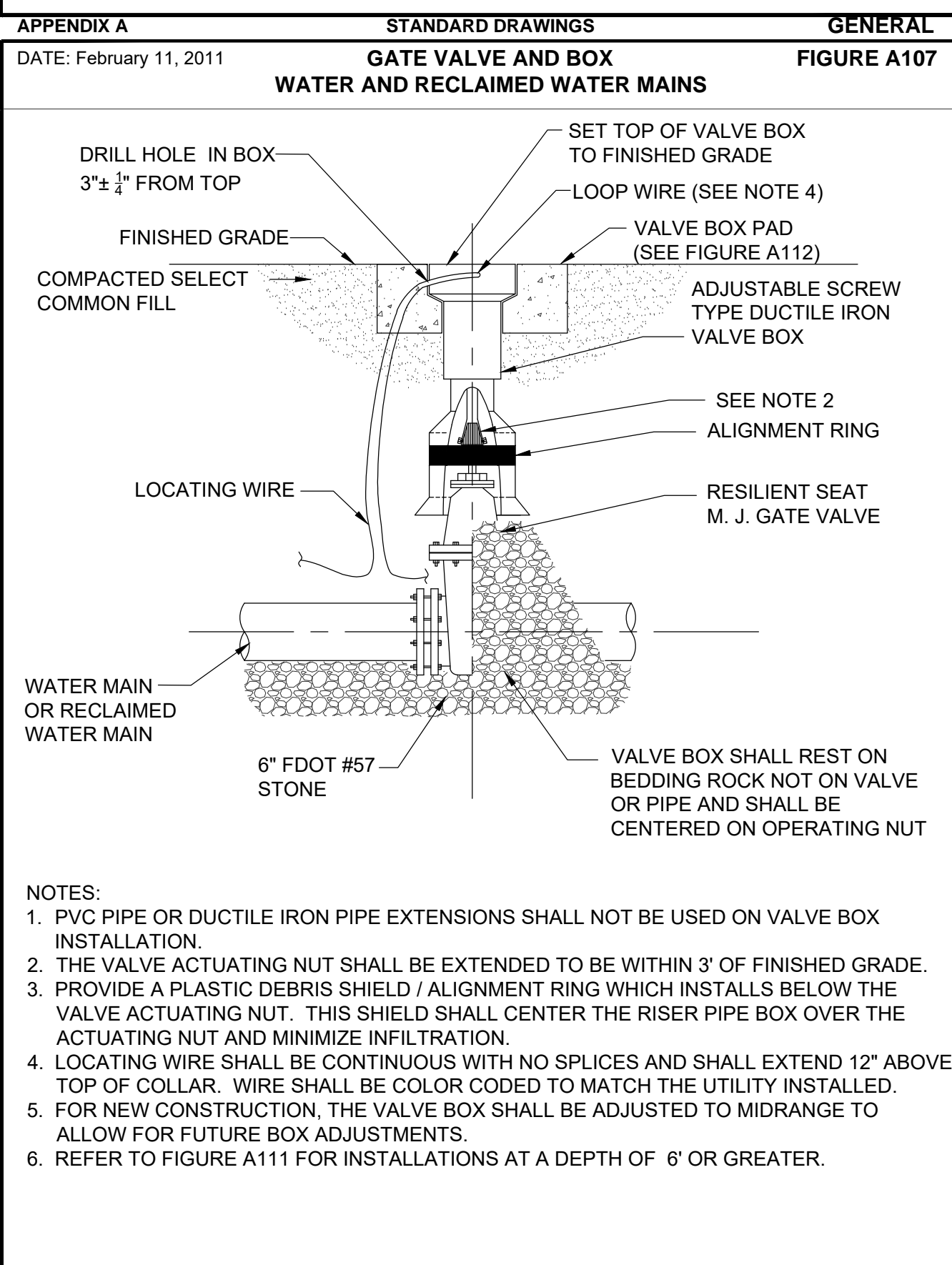
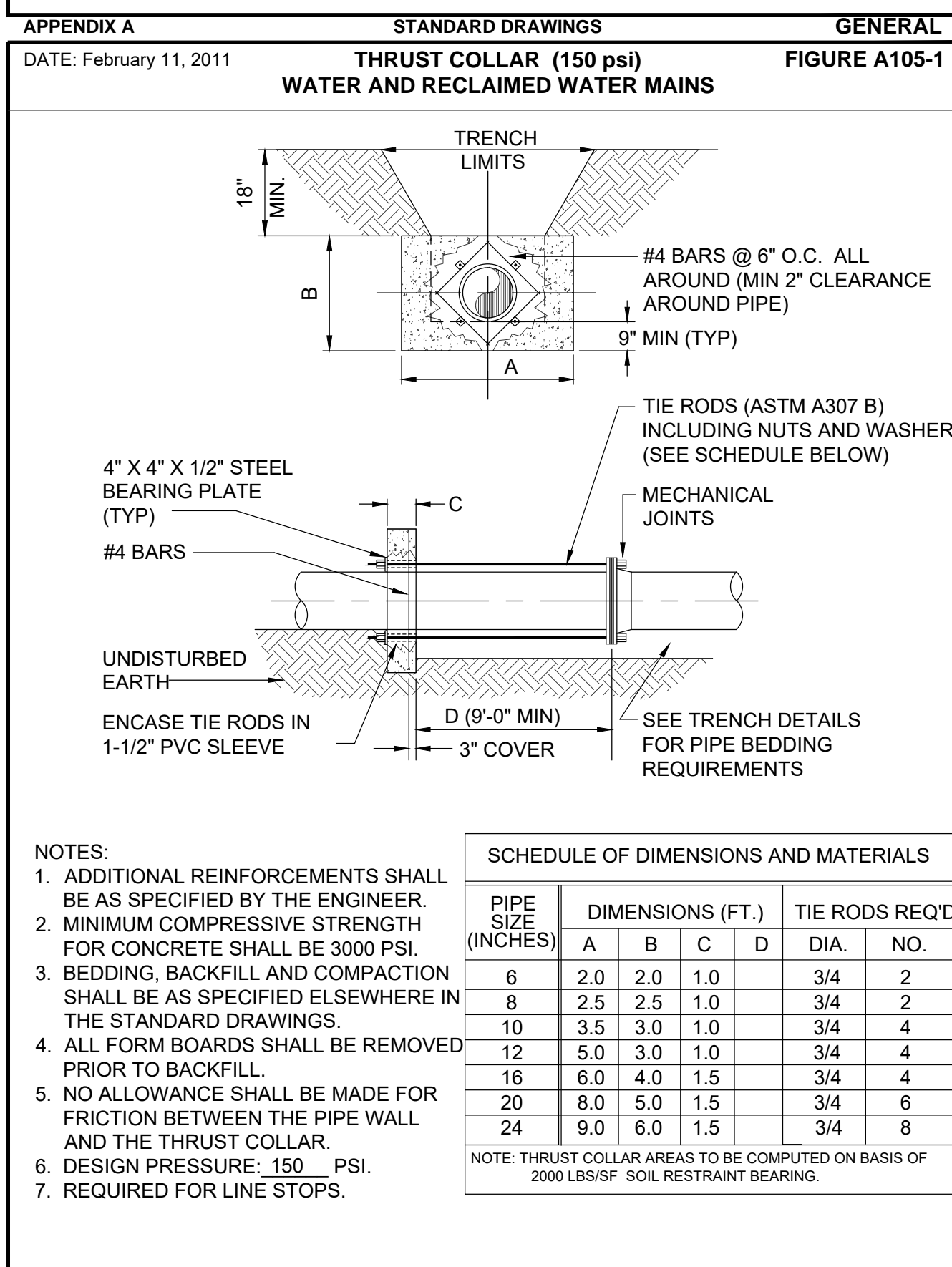
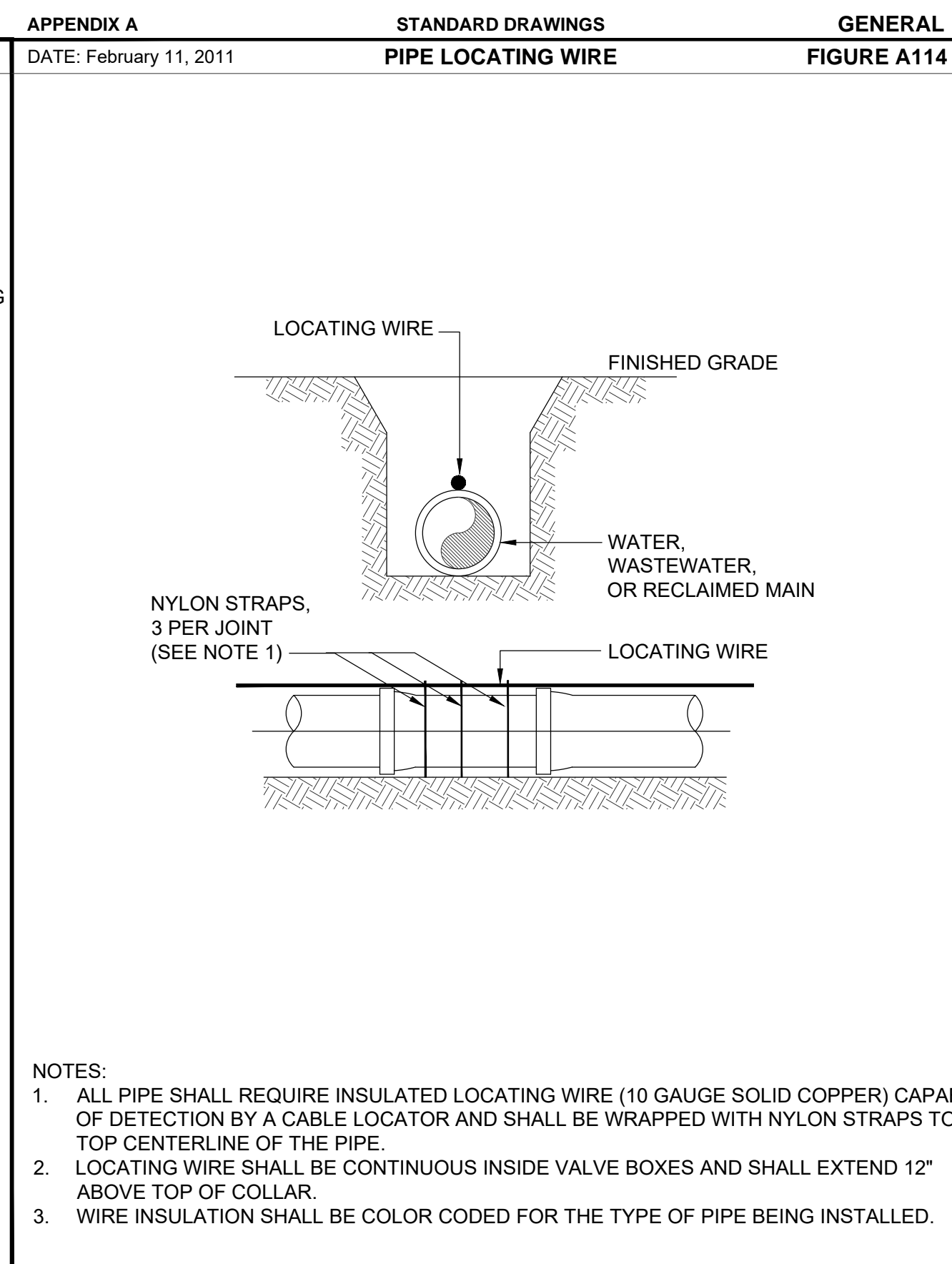
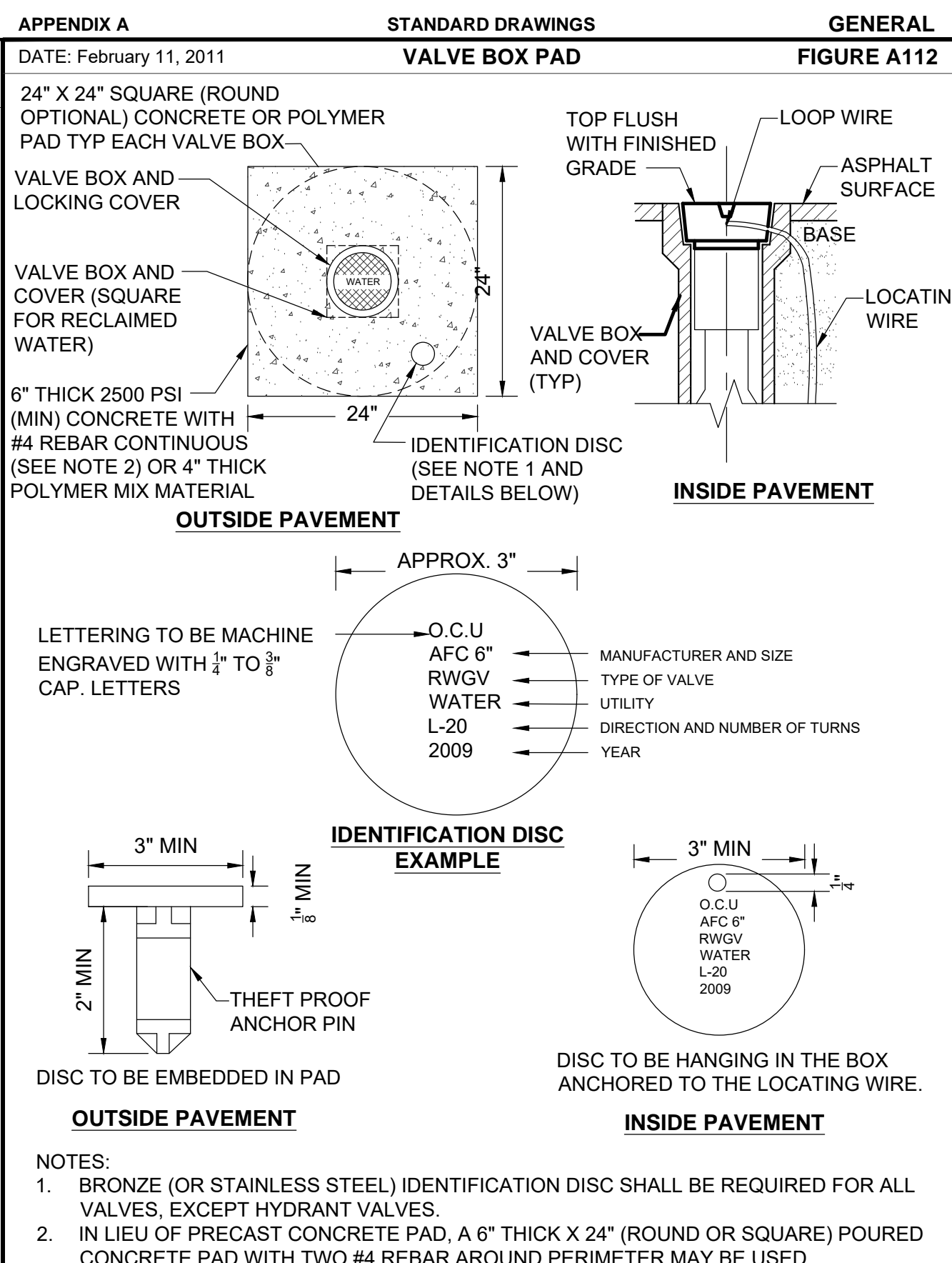
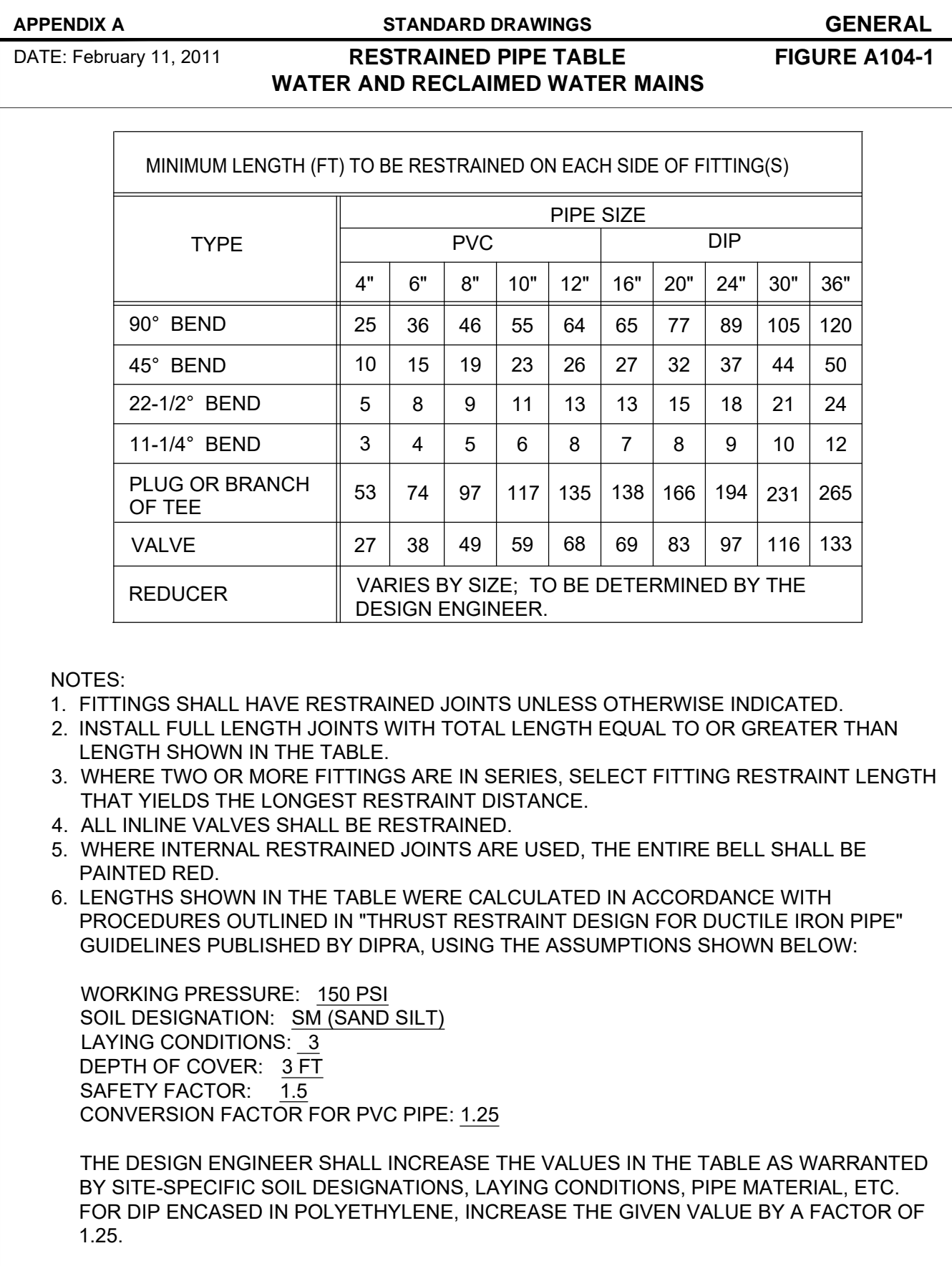
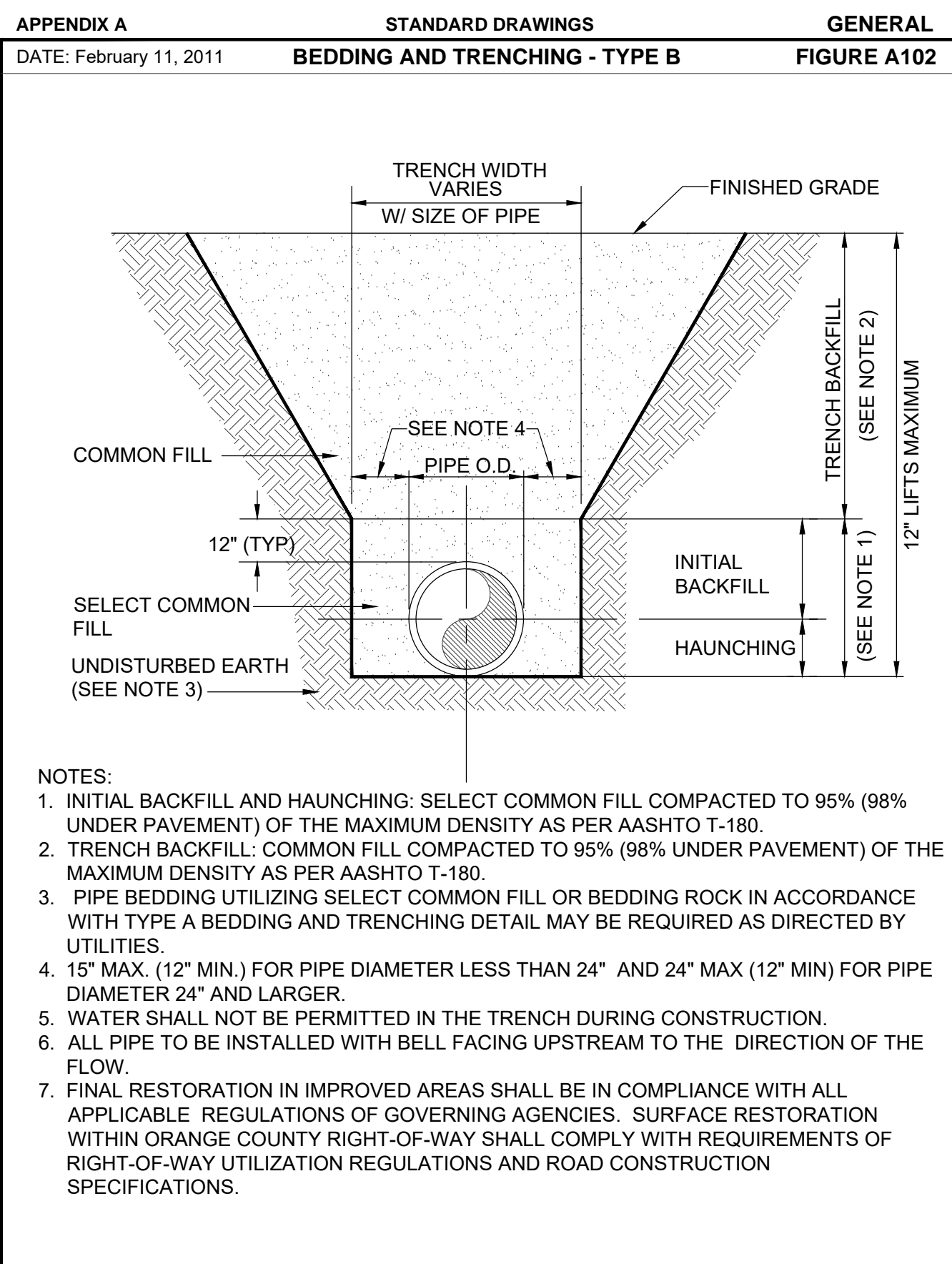
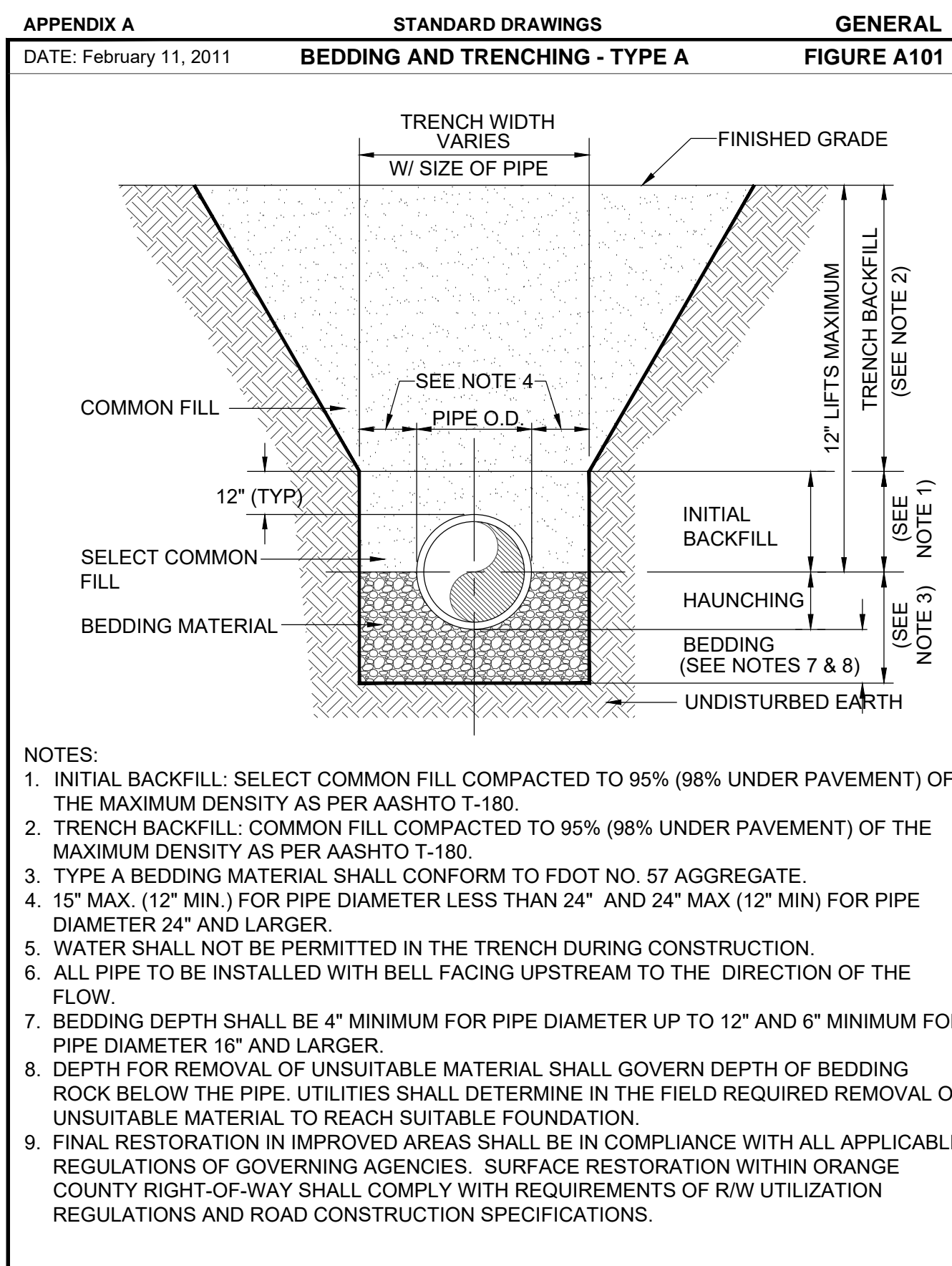


Playpalette: Bayou



Lakeside Village Phase 2  
 Orange County Parks & Recreation





ORANGE COUNTY DETAIL SHEET



ARCHITECTURAL GROUP, INC.

320 E. SOUTH STREET, SUITE 150  
 ORLANDO, FLORIDA 32801  
 (407) 245-3660 FAX: (407) 245-3662

FL LIC. # AA0002264  
 PROJECT TITLE AND OWNERS NAME

ORANGE COUNTY  
 LAKESIDE  
 VILLAGE PARK  
 PHASE II

CONSULTANTS



SEAL AND SIGNATURE

Seal: Majid Kalagchi P.E. 41046

REVISIONS  
 90% SUBMITTAL 10-2-18  
 RESUBMIT 60% CONSTRUCTION DOCS 1-22-19  
 90% RESUBMITTAL 5-8-19  
 100% SUBMITTAL 6-6-19

DRAWN BY

D. FORSYTH

CHECKED BY

M. KALAGCHI

JOB NUMBER

1858

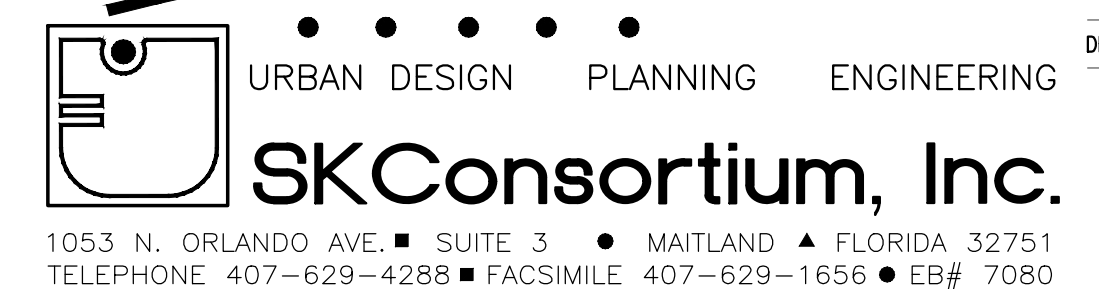
DATE

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DRAWING TITLE

ORANGE COUNTY  
 UTILITY DETAILS

DRAWING NUMBER



1053 N. ORLANDO AVE. SUITE 3 MAILLAND FLORIDA 32751  
 TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 E# 7080

C409