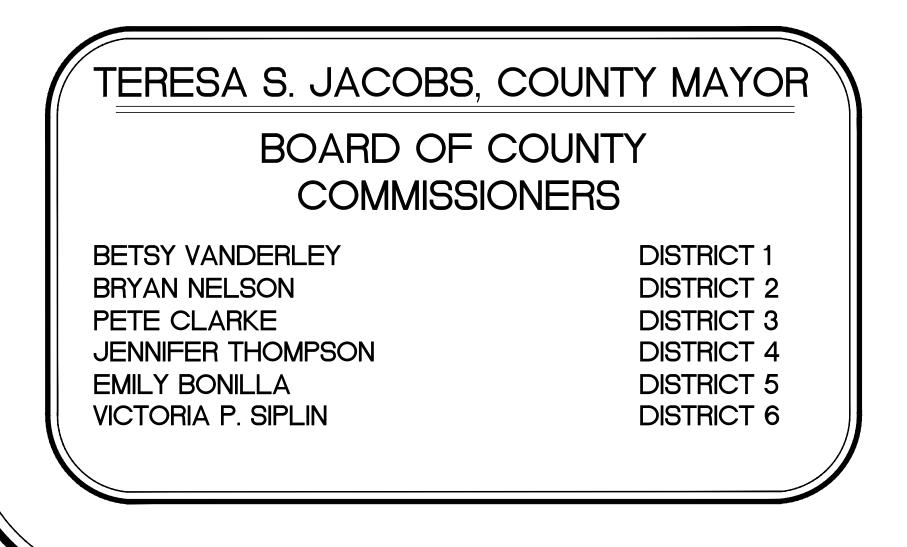




(	
	Wd Westgale Lakse Blvd
	Orange Gate Dr. Turkey, Lake Rd
	Westgate Smokehouse Grill " Orange Gate Dr
	Dr Turkey Lake Rd

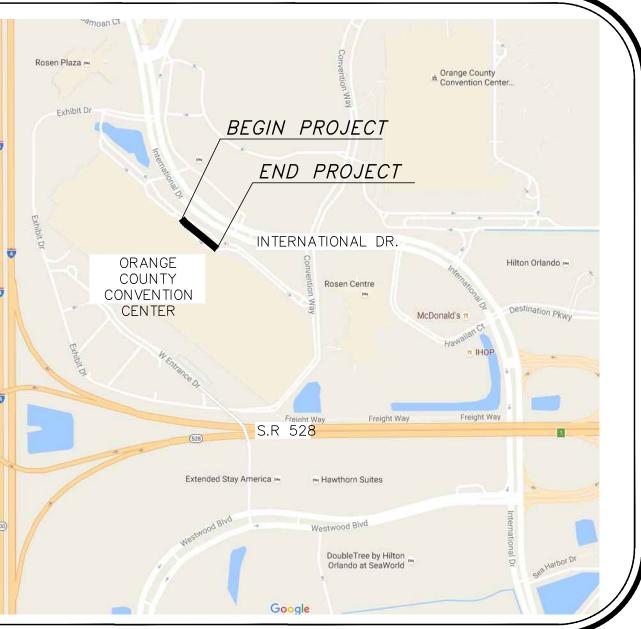
PROJECT LENGTH:	FEET	MILES
SIDEWALK:	NONE	NONE
BRIDGES:	NONE	NONE
TOTAL PROJECT LENGTH:	950'±	0.02





100% PLAN SUBMITTAL

# DISTRICT NO: 6 ORANGE COUNTY, FLORIDA



### GOVERNING STANDARDS AND SPECIFICATIONS :

FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM. DATED JANUARY 2016 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2017 AS AMENDED BY CONTRACT DOCUMENTS.

VICINITY MAP N.T.S.

## NOTE

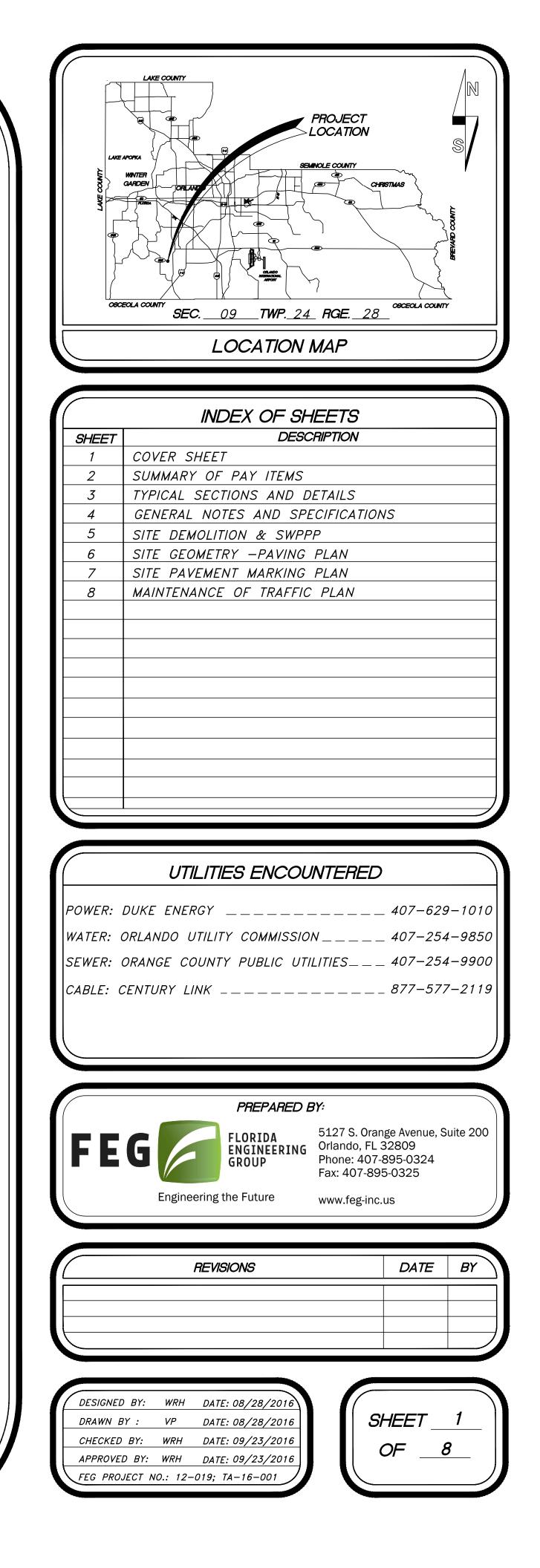
PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

## CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: ENGINEER:

JEAN M. ABI-AOUN, PE 45128



ITEM			QUANTITY TOTA	
NUMBER	DESCRIPTION	UNIT	PLANS	FI
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-1	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1	
110-1-1	CLEARING & GRUBBING	LS	1	
120-1	REGULAR EXCAVATION	СҮ	864	
160-4	TYPE B STABILIZATION, 12" (MIN. LBR 40)	SY	2,305	
334—1	ASPHALTIC CONCRETE SPEED HUMP	EA	4	
350-1-1	CONCRETE PAVEMENT, 8" THICK	SY	2,295	
350-1-2	CONCRETE PAVEMENT, 8" THICK, STAMPED	SY	9.5	
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	76	
711-11-120	THERMOPLASTIC, STANDARD, WHITE, SOLID, 4"	LF	111	
711-11-220	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 4"	LF	54	
711-11-222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 8"	LF	51	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	668	
711-11-225	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 24"	LF	21	
711-11-170	DIRECTIONAL ARROWS, WHITE, THERMOPLASTIC	EA	2	
711-11-160	PAVEMENT MESSAGE, WHITE, THERMOPLASTIC (SPEED HUMP CHEVRON STRIPING)	ΕA	5	

		REVIS	SIONS			
DATE	ΒY	DESCRIPTION	DATE	ΒY	DESCRIPTION	

- 102-1 NUMBERS.
- 104-1
- 110-1-1 CONCRETE SAWCUTTING.
- 350-1 CURING PROCESS AS DESCRIBED IN THE CONCRETE SPECIFICATIONS.



5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407 (895 (0324 Fax: 407 (895 (0325 www.feg-inc.us

## ORANGE COUNTY CONVENTION CENTER

PROJECT NAME CONVENTION CENTER DRIVEWAY IMPROVEMENT

FEG PROJECT NO.
12—019; TA—16—001

OCCC NO.

## PAY ITEMS NOTES

INCLUDES ALL ITEMS OF MAINTENANCE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, THE DESIGN OF THE MAINTENANCE OF TRAFFIC PLAN BY THE CONTRACTOR AND APPROVAL OF THE PLANS BY ORANGE COUNTY CONVENTION CENTER. . CONTRACTOR TO MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD AND THE FDOT ROADWAY AND DESIGN STANDARDS, CURRENT EDITION. ATTENTION IS DIRECTED TO THE 600 SERIES INDEX

INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL INCLUDING, BUT NOT LIMITED TO, SYNTHETIC BALES, TURBIDITY BARRIERS, SILT FENCES AND TEMPORARY GRASSING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. .

INCLUDES, BUT IS NOT LIMITED TO, THE COST OF REMOVAL AND DISPOSAL OF CONCRETE CURBS, PAVEMENTS, BASE MATERIAL, TEMPORARY RELOCATION OF MEDIAN PLANTERS AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT. INCLUDES THE COST OF ALL

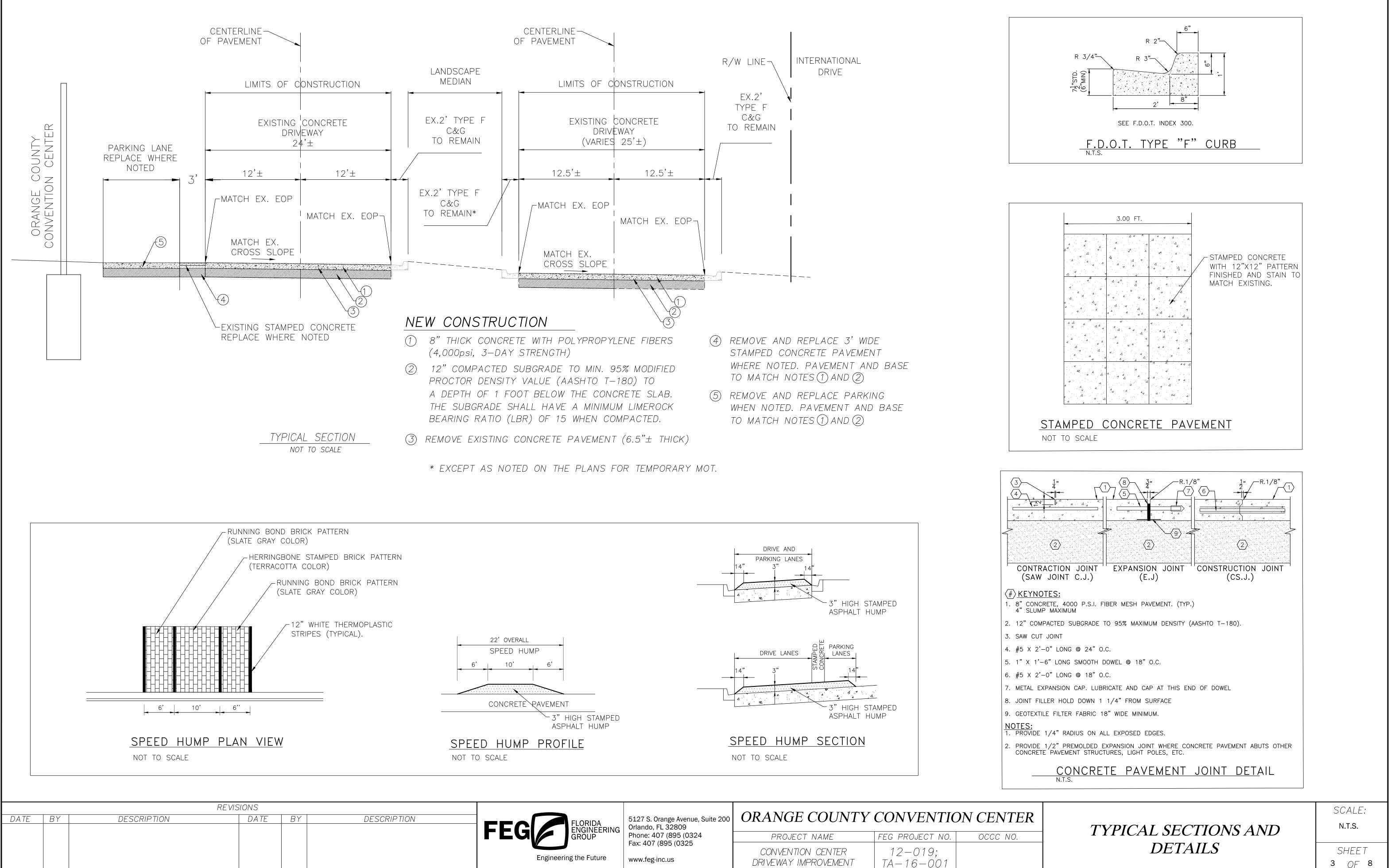
INLCUDES THE COST OF COVERING THE CONCRETE WITH PLASTIC SHEETING DURING THE

SUMMARY OF PAY ITEMS	

SCALE:

N.T.S.

SHEET 2 OF 8



EG FLORIDA ENGINEERING GROUP	5127 S. Orange Avenue, Suite 200 Orlando, FL 32809	ORANGE COUNTY CONVENTION CENTE						
GROUP	Phone: 407 (895 (0324	PROJECT NAME	FEG PROJECT NO.	OCCC NO.				
Engineering the Future	Fax: 407 (895 (0325 www.feg-inc.us	CONVENTION CENTER DRIVEWAY IMPROVEMENT	12—019; TA—16—001					

### GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE YEAR 2017 EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
- 2. ANY DIFFERING SITE CONDITIONS FROM THOSE WHICH ARE REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND COUNTY IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND COUNTY.
- 3. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION. SUNSHINE STATE ONE CALL MUST BE NOTIFIED FOR LOCATES AT 1–800–432–4770.
- 4. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV COMPANIES. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACK FILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
- 5. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED IN ACCORDANCE TO FDOT STANDARD INDEX Nos. 102 AND 103 PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SILT FENCE, ROCK BAGS, TURBIDITY BARRIERS, SYNTHETIC BALES, AND OTHER EROSION AND SEDIMENT CONTROL DEVICES MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS SHOWN IN PLANS OR AS REQUIRED UNTIL THE CONTRACT IS COMPLETE AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. MEASURES SHOWN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR WILL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS IN TURBID WATERS, WATERWAYS OR OFFSITE AREAS.
- 6. CONTRACTOR TO MAINTAIN UNINTERRUPTED ACCESS TO CONVENTION CENTER ENTRANCE AT ALL TIMES.
- 7. CONTRACTOR SHALL MAINTAIN ADEQUATE SUPERVISION AND CONTROL TO ENSURE THAT STABILITY OR EXCAVATED AND CONSTRUCTED SLOPES ARE NOT ADVERSELY AFFECTED BY RAIN WATER.
- 8. CONTRACTOR SHALL MAINTAIN ADEQUATE SUPERVISION AND CONTROL TO ENSURE THAT EROSION IS CONTROLLED AND FLOODING OF EXCAVATION OR DAMAGE TO STRUCTURES DOES NOT OCCUR.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES AND VEGETATION UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
- 10. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE MANUAL ON TRAFFIC CONTROL DEVICES AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN STANDARDS.
- 11. THE CONTRACTOR SHALL ENSURE THAT PROPER SOIL DENSITIES ARE ACHIEVED FOR THE PLACEMENT OF ALL STRUCTURES OR COMPACTED EARTH. SOIL TESTING SHALL BE PROVIDED BY THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL USE EXTREME CAUTION AND CARE TO ENSURE THAT THEIR WORK AREA IS PROTECTED AT ALL TIMES. THE CONTRACTOR SHALL SECURE THEIR WORK AREA AND MATERIALS DURING CONSTRUCTION AND AT THE END OF EACH WORK DAY TO PROVIDE FOR THE SAFETY OF ALL PERSONS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT OR CURBING DAMAGED DURING CONSTRUCTION WITH THE PAVEMENT AND CURB SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL SUBMIT A JOINT PLAN TO OCCC FOR REVIEW TWO WEEKS PRIOR TO CONCRETE POUR. THE JOINTS SHOULD NOT BE LOCATED WITHIN THE TIRE PATH WHERE FEASIBLE.

PAF	RT I - GENERAL
1.1 <i>A</i>	RELATED DOCUMENTS All applicable provisions of the Bidding and Cor
	General Requirements shall govern the work un
1.2 /	WORK INCLUDED A. Provide all labor, materials, necessary equipme
	Portland Cement Concrete Paving work, as ind specified herein or both.
E	<ol> <li>Including but not necessarily limited to the follow</li> </ol>
	<ol> <li>Concrete work for walks, pavements and</li> <li>Expansion, contraction, and construction</li> </ol>
	3. Natural gray and colored concrete paving
	4. Concrete finishing and curing.
1.3	RELATED WORK
1.4	SUBMITTALS: Comply with the requirements of
1.5	QUALITY ASSURANCE
ļ.	<ol> <li>Requirements of Regulatory Agencies: Perform and other applicable codes.</li> </ol>
E	3. Inspection and Testing:
	<ol> <li>Hardrock Aggregate: Test by approved te ASTM C33.</li> </ol>
	<ol> <li>Limerock Aggregate: Test by approved te local acceptable standards and specified</li> </ol>
	a. Do not deliver aggregates (hardrock plant, until pit source has been appr
	produce a uniform and continuous p b. Take samples from aggregate stock
	1
4	A. General: Use ready-mixed concrete, batched,
	with ASTM C94 unless otherwise indicated.
E	<ol> <li>Cement: For all concrete use domestic Portlan requirements of ASTM C150-76a, Type I.</li> </ol>
C	C. Fine Aggregate, Hardrock: ASTM C33, consist durable particles which do not contain more that deleterious substance as clay lumps, shale, scl
	and flaky particles.
Ľ	<ol> <li>Coarse Aggregate Hardrock:</li> <li>Use clean, coarse limestone aggregate in</li> </ol>
E	. Water: Clean and potable, free from deleterious
	organic matter.
2.2	CONCRETE MIXES It is intended that concrete for all parts of the co
,	hardened, possess the required strength, durat resistance to deterioration and abrasion, and of
E	<ol> <li>It is also intended that all concrete of the same throughout the site. Concrete placed adjacent t</li> </ol>
	was placed in a previous pour shall be uniform
C	<ol> <li>Mix Proportioning: Use only mixes designed by Owner. Ready-mixed concrete shall be in accord</li> </ol>
	<ol> <li>For concrete curbs and sidewalks, provide compressive strength at 28 days equal to 3</li> <li>For concrete pavement, provide concrete pavem</li></ol>
	strength at 28 days equal 5,000 PSI.
L	<ol> <li>Entrained Air: All concrete which will be expose entrain 4%-6% air.</li> </ol>
E	<ul> <li>Design Slumps: Slabs on Grade shall be four i</li> <li>Concrete mix design shall be in accordance wit</li> </ul>
2.3	CONCRETE ADMIXTURES
ŀ	A. Concrete Admixture Types:
	<ol> <li>ASTM C494, water reducing.</li> <li>ASTM C494, water reducing and retarding</li> </ol>
	6
Ν	<ol> <li>Coordinate work of other sections in forming ar sleeves, bolts, anchors, and other embedded it</li> </ol>
٢	<ol> <li>Install accessories in accordance with manufac Ensure items are not disturbed during concrete</li> </ol>
c	<ol> <li>Do not remove forms and shoring until concrete own weight, and construction and design loads</li> </ol>
	load supporting forms when concrete has attair required 28-day compressive strength, provided
3.5	JOINTS (EXPANSION, CONSTRUCTION, AND
ŀ	A. Form expansion joints one-half inch (1/2") thick joints to be located as indicated on plans. Expa location. Recess joint filler one-half inch (1/2") f
E	<ol> <li>Construct doweled expansion joints as designa</li> </ol>
	specifications. Insert one end of dowel in Sche does not bond to dowel in order to permit horize installed level, parallel to one another, parallel t
	as detailed at one-half of the slab's thickness. centered over the mid-length of the dowels, and meet the foregoing requirements, use fabricate
	subgrade as recommended. Contractor shall su approval if used.
C	<ol> <li>Construct pour joints (construction joints) at any more than one (1) hour.</li> </ol>
	1. Construction pours shall be continuous po
	<ol> <li>No additional joints other than those show</li> <li>Key all pour joints.</li> </ol>
	<ol> <li>Pour joints may be substituted for control design as indicated on plans.</li> </ol>
	acoign ao maioateu un pians.
C	D. Construct control joints (contraction joints) at lo
	1. For four-inch (4") depth concrete slabs on one-quarter inch (1/4") width and one inch
	<ol> <li>For eight-inch (8") depth concrete slabs o one-quarter inch (1/4") width and two-inch</li> </ol>
	<ol> <li>Form open-type contraction joints by stak depositing the concrete on both sides. Aft</li> </ol>
	preserve the width and shape of the joint, match appearance of saw cut.
	11

PORTLAND CEMENT CONCRETE PAVING

		REVIS	SIONS			
DATE	BY	DESCRIPTION	DATE	ΒY	DESCRIPTION	

	3. Test Cylinders - As per ASTM C-39.		C8
	a. Minimum of three (3) concrete test cylinders shall be taken for every 75 or less cubic yards of concrete placed.	305     Hot Weather Concreting       306     Recommended Practice for Cold Weather Concreting	D. Where p more str
	<li>Minimum of one (1) additional test cylinder shall be taken during any cold weather concreting, and be cured on job site under same conditions as the</li>	308 Recommended Practice for Curing Concrete	1.5 QUALIFI
ontract Requirements, and Division 1 -	concrete it represents.	309 Recommended Practice for Consolidation of Concrete	A. Provide who is th
under this Section.	<ul> <li>c. Test cylinders at age of seven (7) days and twenty-eight (28) days.</li> <li>1) Seven-day Strength: Not less than 60% of specified ultimate 28-day</li> </ul>	318     Building Code Requirements for Reinforced Concrete       347     Recommended Practice for Concrete Formwork	direct all concrete
tent, and services to complete the	d. Mix Adjustment: Should test results indicate concrete strength below	3. American Society for Testing and Materials (ASTM) Standard:	1.6 PLANT ( A. Meet all
dicated on the Plans and Details, as	a. With Adjustment. Should test results indicate othere is any properties and a second any minimum requirements, laboratory will adjust mix proportions in future batches as necessary to achieve specified	C31-69 Making and Curing Concrete Test Specimen in the Field	Producti
owing:	minimum requirements. e. Concrete Failures: Should test result show that concrete strength	C33-74a Concrete Aggregates C39-72 Compressive Strength of Cylindrical Concrete Specimens	1.7 SUBMIT A. Procedu
i joints.	requirements for any portion of work falls below 28-day minimum requirements, secure core or prism specimens of hardened concrete and	C42-68 Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	the Own
g flatwork.	test in accordance with ASTM C42. 1) Laboratory will secure and test specimens under Owner's direction.	C94-74a Ready-Mixed Concrete	B. Test Rep C. Certifica
	4. Slump Test - As per ASTM C-143:	C150-76a Portland Cement C171-69 Sheet Materials for Curing Concrete	1. Su
	<ul> <li>Minimum of one (1) slump test shall be taken for each set of test cylinders taken.</li> </ul>	C172-71 Sampling Fresh Concrete	rec 2. Ma
of Section - Submittals	C. Unless otherwise indicated, conform to all materials, workmanship and practice to the requirements of the following standards:	C192-69 Making and Curing Concrete Test Specimens in the Laboratory	a. b.
	1. Florida Building Code (Latest Edition).	C260-741 Air-Entraining Admixtures for Concrete	c. d.
n work in accordance with local building	<ol> <li>The following publications from the American Concrete Institute (ACI) - latest edition:</li> </ol>	C309-74 Liquid Membrane-Forming Compounds for Curing Concrete C330-75a Lightweight Aggregates for Structural Concrete	3. Re
testing laboratory in accordance with	Number/Title	C418 Test for Abrasion Resistance of Concrete by Sandblasting	D. Product for all pro admixtur
	211.1 Recommended Practice for Selecting Proportions for Normal Weight Concrete	C494-71 Chemical Admixtures for Concrete	E. Submit s
testing laboratory for conformance with I requirements.	211.2 Recommended Practice for Selecting Proportions for Structural Concrete	C595-75 Blended Hydraulic Cements C618-73 Fly Ash and Row or Calcined Natural Pozzolan for Use as an	1. Pla spo
k and limerock) to site, or to ready-mix proved, and plant, capacity, and ability to	301 Specifications for Structural Concrete for Buildings	Admixture	2. Ma
product has been verified. kpiles assigned to Project.	302 Recommended Practice for Concrete Floor and Slab Construction	C803 Penetration Resistance of Hardened Concrete C805 Rebound Number of Hardened Concrete	me 3. De
	304 Recommended Practice for Measuring, Mixing, Transporting Concrete		COL
PORTLAND CEMENT	2 PORTLAND CEMENT	3 PORTLAND CEMENT	
CONCRETE PAVING	CONCRETE PAVING	CONCRETE PAVING	
, mixed, and transported in accordance	3. Air Entraining: ASTM C260. For all concrete exposed to water or air.	1. Softwood framing lumber: Kiln dried, PS-20.	3. Sto wa
nd cement that conforms to the	<ul> <li>Do not use air entraining admixture in concrete with Ipanex special waterstop admixture.</li> </ul>	<ul> <li>D. Plywood:</li> <li>1. Exterior type softwood plywood, PS 1-66.</li> </ul>	sta D. Expansio
	B. Quality: Conform to ASTM designations specified for the various types.	E. Form Coatings: Non-staining clear coating which does not contain oil or wax and will not	1/8" (3 n
sting of washed sand having hard, strong, an one percent (1%) by weight of such chist, alkali, mica, coated grains or soft	<ol> <li>Do not use admixtures which cause excessive (up to 10% more than concrete without admixtures) shrinkage.</li> </ol>	prevent proper adhesion of applied finishes. 1. "Formshield", by A.C. Horn, Inc.	PART III - EXEC
	2. Do not use admixtures which contain calcium chloride or triethanolamine.	2. "Release", by Burke Concrete Accessories.	3.1 BARRIC
n accordance with ASTM C33-74a.	3. Do not use admixtures which cause corrosion of embedded steel.	3. "Magic Kote", by Symons.	until wor
us amounts of acids, alkalis, salts, or	2.4 CURING COMPOUND	<ol> <li>Form Release-80 or Form Release-100 by Lambert Corp.</li> <li>"Cast-Off" by Sonneborn Building Products.</li> </ol>	B. Install te Specifica
	A. Use only compounds that will not affect bond of coatings or toppings in accordance with ASTM C309, Type 1 or Type 2.	F. Metal Construction Joints: "Keyed-Kold", by Burke Concrete Accessories.	1. Eli
concrete work be homogenous, and when	2.5 CEMENT GROUT	G. Pressure Sensitive Tape: 3M or equivalent, polyurethane, or mylar faced adhesive backed paper tape, one inch (1") wide. Use for formwork joints.	2. Ma 3.2 INSPEC
ability, watertightness, appearance, other qualities as specified or required.	A. Cement Grout: Mix one part Portland Cement, 2-1/2 parts fine aggregate, and water enough for required consistency. Depending on space, consistency may range from mortar consistency to a mixture that will flow under its own weight. Use for leveling.	H. Formwork Product Handling:	A. Examine
e specified concrete mix shall match to concrete of the same specified mix that	preparing setting pads or beds, for filling non-structural voids, and similar uses. Do not use for grouting under bearing plates or structural members in place.	<ol> <li>Store materials above ground on framework or blocking, and cover with protective waterproof covering. Provide for adequate air circulation throughout material</li> </ol>	1. En wo
n in color to that concrete.	B. Non-Shrink Grout: Acceptable compounds and manufacturers:	stacks. 2.7 PREFORMED EXPANSION JOINT FILLER AND SEALANT	B. Compac for areas
ordance with ASTM C94.	Master Flo 713, by Masters Builders Company     Five Star Grout by U.S. Grout Corporation	A. Expansion Joint Filler: Premolded type, ASTM D1751. Approved manufacturers:	C. Assure t
e concrete which will develop ultimate 3,000 PSI. which will develop minimum compressive	<ol> <li>Upcon by the Upco Co.</li> <li>Horn Non-Metallic Grout by A.C. Horn, Inc.</li> </ol>	<ol> <li>A.C. Horn Company</li> <li>Homasote Company</li> </ol>	water ha 1. Ve
ed to water or air shall be designed to	2.6 FORMWORK AND ACCESSORIES	<ol> <li>W.R. Meadows Company</li> <li>B. Minimum 1/2" thick asphaltic impregnated fiberboard expansion joint filler. Locations as</li> </ol>	D. Verify the locations
	A. Formwork: Matched, tight fitting and adequately stiffened to support weight of concrete without deflection detrimental to tolerances and appearance of concrete, conform with	indicated on plans. Expansion joint filler to be full depth of slab thickness at joint as indicated on drawings. Contractor shall install expansion joints as detailed on the	locations
inches (4") plus/minus one inch (+1"). ith ASTM C94.	ACI 347, Chapter 4, "Materials for Formwork".	drawing where concrete pavement abuts all vertical surfaces including but not limited to all buildings, structures, curbs, columns, walls, light poles, etc.	E. Place no been rev
	B. Use forms with a depth equal to the plan dimensions for the depth of concrete being deposited against them. Forms shall be straight, free from warp or bends, and of a straight of the s	C. Expansion Joint Handling:	24 hours
	sufficient strength when staked to resist the pressure of the concrete without deviation from line and grade. Clean the forms each time they are used, and saturate with water prior to placing the concrete.	<ol> <li>Deliver materials in manufacturer's original containers, clearly labeled with manufacturer's name and address and product identification.</li> </ol>	3.3 PLACEN A. In locatio
na.	C. Lumber	<ol><li>Store materials in original containers protected from direct contact with the ground and from the elements.</li></ol>	limerock as requir 95% con
	7	9	
PORTLAND CEMENT CONCRETE PAVING	PORTLAND CEMENT CONCRETE PAVING	PORTLAND CEMENT CONCRETE PAVING	
ind setting openings, slots, recesses, items.	<ol> <li>Accurately lay out areas according to plans and make all joints straight and true</li> </ol>	<ol> <li>If earth at bottom of forms has dried out, re-wet so that soil is moist but free of standing water and mud.</li> </ol>	operation conditior
items.	with clear-cut angles.	<ol> <li>Convey concrete from mixer to final position by methods which will prevent</li> </ol>	3.11 BACKFII
e placement. te has sufficient strength to support its	<ul> <li>3.6 INSPECTION</li> <li>A. Assure that excavation and formwork are completed, and excess water is removed.</li> </ul>	separation or loss of materials. 6. Maximum height of concrete free fall is four feet (4').	A. After the required
ined seventy-five percent (75%) of ed construction is re-shored.	<ul> <li>B. Check that reinforcement is secured in place.</li> </ul>	<ol> <li>Regulate rate of placement so concrete surface is kept level throughout; a minimum being permitted to flow from one area to another. Control rate of pour</li> </ol>	(90%) of 3.12 FIELD Q
D CONTRACTION)	C. Verify that expansion joint materials, anchors, and other embedded items are secured in position.	consistent with form design.	A. Test Cyli
k with a preformed joint filler. Expansion pansion joint to be full depth of slab at joint	3.7 PLACING CONCRETE	<ol> <li>Deposit concrete in continuous operation until section being placed has been completed.</li> </ol>	1. Te
from surface.	A. Equipment forms and reinforcing shall be clean and wet down, reinforcing firmly secured in place, runways set up and not resting on or displaying reinforcing.	<ol> <li>Ensure finished surfaces do not vary from true lines, levels or grade by more than 1/8 inch in 10 feet when measured with straight edge.</li> </ol>	2. Pe
ated on the drawings and in the edule 40PVC pipe and cap so concrete zontal movement. Dowels shall be	B. At locations where new concrete is doweled into existing work, drill holes in existing concrete, insert steel dowels as indicated on drawings and pack solid with non-shrink	<ol> <li>Apply curing compound on finished surfaces except exposed aggregate concrete pavement immediately after placement. Apply in accordance with manufacturer's</li> </ol>	B. Certifica 1. Pro
to the length of the slab, and positioned The expansion joint material shall be	grout. Cover exposed end with capped Schedule 40 PVC sleeve to allow free movement as indicated on drawings.	recommendations.	rea
nd installed as specified above. In order to ed dowel baskets placed directly on the submit shop drawings of dowel basket for	C. Place concrete in the forms to the required depth. Tamp and spade until mortar entirely covers its surface.	<ul> <li>3.9 CONCRETE FINISHES</li> <li>A. All concrete flatwork finishes shall be slip resistant with a coefficient of friction of .5</li> </ul>	2. Mix
ny break in concrete placement lasting	D. Place concrete, screed and wood float surfaces to a smooth and uniform finish.	according to ASTM C418. The contractor shall verify slip resistance requirements of all sample panels of finishes prior to executing the work and provide abrasive aggregate as specified, if necessary.	C. Contract
	E. Avoid working mortar to surface.	B. Tamp freshly-placed concrete with approved metal grid tampers not less than 12 inches	3.13 DEFECT
oours except where joints are indicated. wn on plans are allowed.	<ul> <li>Round all edges, including edges of expansion, contraction and control joints, with 1/4 inch radius edging tool.</li> </ul>	x 12 inches in size so as to bring fines to top, then rod to uniform surface at required levels.	A. Concrete 1. Te
	G. Ensure finished surfaces do not vary from true lines, levels or grade by more than one-eighth inch (1/8") in ten feet (10') when measured with straight edge.	<ol> <li>Float and trowel finish as soon as surface becomes workable.</li> <li>Emotion of the standard and surface at the testing</li> </ol>	1. Te 2. No
Lininia udana inii (	H. Apply curing compound on finished surfaces immediately after placement. Apply in accordance with manufacturer's recommendations.	<ol><li>Provide slopes as indicated on drawings, pitch to drains.</li></ol>	3. No
l joints when treated as part of paving		<ol> <li>Work and measure concrete flatwork until it is level to within 1/8 inch in 10 feet in any direction.</li> </ol>	4. No
			5. Cu
ocations indicated on plans. n grade, saw cut control joints shall be	3.8 CONCRETE PAVING INSTALLATION	3.10 PROTECTION	6. De
ocations indicated on plans. In grade, saw cut control joints shall be ch (1") in depth.	A. Placing concrete according to ACI.	<ul> <li>3.10 PROTECTION</li> <li>A. Protect freshly placed concrete from damage due to water, falling objects, or persons marring finish surface of concrete. Surfaces damaged due to lack of protective measures shall be removed and replaced with fresh concrete at no additional cost to the</li> </ul>	7. No
ocations indicated on plans. In grade, saw cut control joints shall be ch (1") in depth. on grade, saw-cut control joints shall be ch (2") depth.	<ul> <li>A. Placing concrete according to ACI.</li> <li>1. Before placing any concrete in formwork, thoroughly clean and remove all foreign matter and water from forms or structural excavations.</li> </ul>	A. Protect freshly placed concrete from damage due to water, falling objects, or persons marring finish surface of concrete. Surfaces damaged due to lack of protective measures shall be removed and replaced with fresh concrete at no additional cost to the Owner.	
ocations indicated on plans. n grade, saw cut control joints shall be ch (1") in depth. on grade, saw-cut control joints shall be ch (2") depth. king a metal bulkhead in place and fter the concrete has set sufficiently to	<ul><li>A. Placing concrete according to ACI.</li><li>1. Before placing any concrete in formwork, thoroughly clean and remove all foreign</li></ul>	<ul> <li>A. Protect freshly placed concrete from damage due to water, falling objects, or persons marring finish surface of concrete. Surfaces damaged due to lack of protective measures shall be removed and replaced with fresh concrete at no additional cost to the Owner.</li> <li>B. Protect finished surface from damage by work of other trades due to subsequent work.</li> </ul>	7. No 8. Ex
ocations indicated on plans. n grade, saw cut control joints shall be ch (1") in depth. on grade, saw-cut control joints shall be	<ul> <li>A. Placing concrete according to ACI.</li> <li>1. Before placing any concrete in formwork, thoroughly clean and remove all foreign matter and water from forms or structural excavations.</li> <li>2. Mix and deliver concrete only in quantities for immediate use.</li> </ul>	<ul> <li>Protect freshly placed concrete from damage due to water, falling objects, or persons marring finish surface of concrete. Surfaces damaged due to lack of protective measures shall be removed and replaced with fresh concrete at no additional cost to the Owner.</li> <li>Protect finished surface from damage by work of other trades due to subsequent</li> </ul>	7. No 8. Ex str 9. Do
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5127 S. Orange Avenue, Suite 200 Orlando, FL 32809 Phone: 407 (895 (0324 Fax: 407 (895 (0325

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## ORANGE COUNTY CONVENTION CENTER

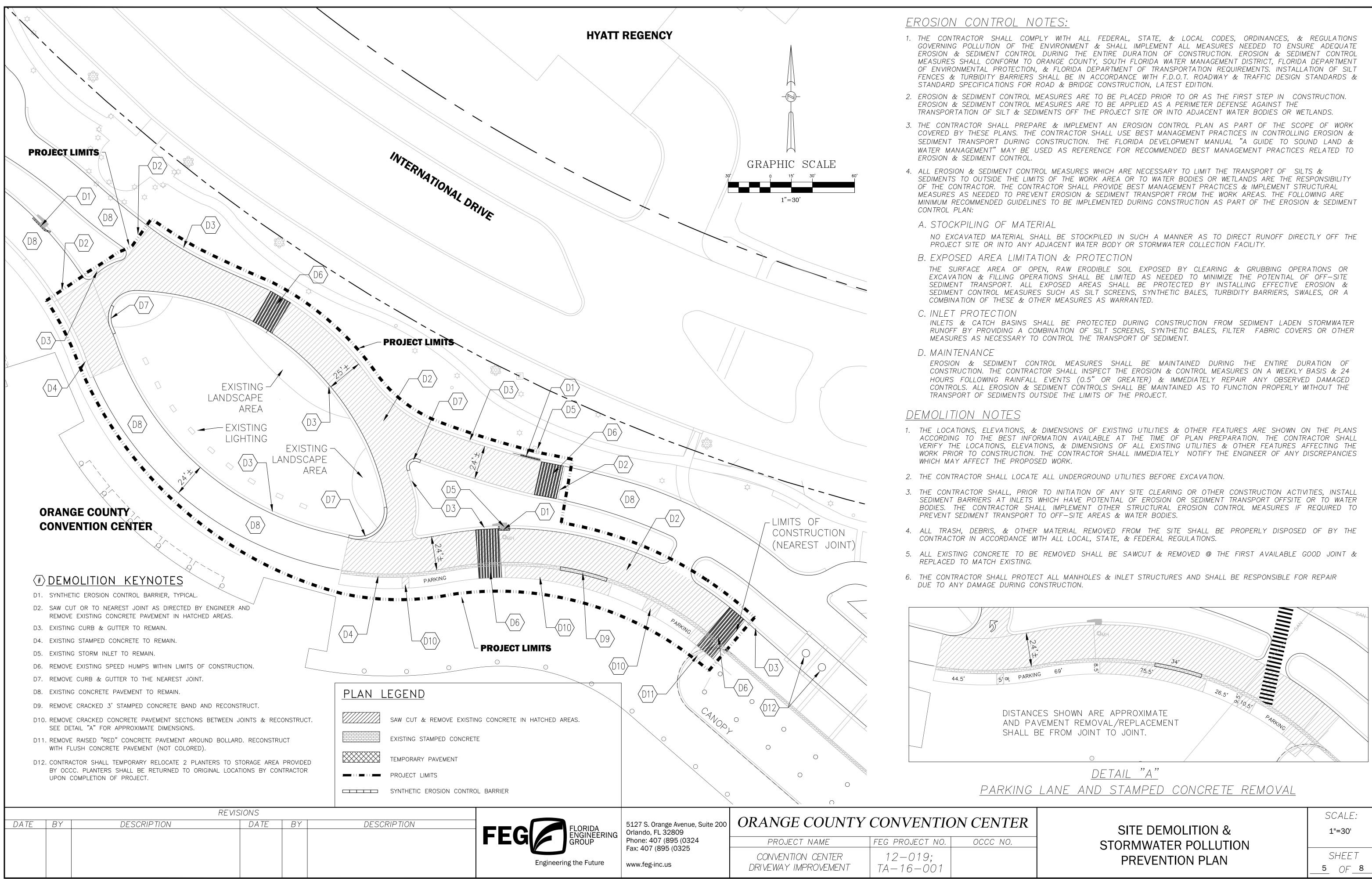
PROJECT NAME CONVENTION CENTER DRIVEWAY IMPROVEMENT

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OCCC NO.

C823 Examination and Sampling of Hardened Concrete in Construction	the limitations of the specifications.
re provisions of pertinent codes and standards conflict with this specification, the stringent provisions govern.	F. Do not place concrete until submittals have been approved by the Architect.
LIFICATIONS OF WORKMEN	<ol> <li>1.8 TRANSMIT-MIX DELIVERY SLIPS</li> <li>A. Keep a record at the job site showing time and place of each pour of concrete, together</li> </ol>
ide at least one (1) person at all times during execution of this portion of the work is thoroughly trained and experienced in placing the types of concrete specified to t all work performed under this section. For finishing of exposed surfaces of the	with transit-mix delivery slips certifying contents of the pour. Make the record available to the Architect for his inspection upon request. Upon completion of each portion of the work, deliver the record and the delivery slips to the Architecct.
rete, use only thoroughly trained and experienced journeyman concrete finishers.	1.9 DELIVERY, STORAGE AND HANDLING
t all requirements of the Check List for Certification of Ready Mix Concrete luction Facilities of the National Ready Mixed Concrete Association and ASTM C94.	A. Deliver materials in manufacturer's original containers, clearly labeled with manufacturer's name and address and product identification.
uction Facilities of the National Ready Mixed Concrete Association and ASTM C94.	B. Store materials in original containers protected from direct contact with the ground and from the elements.
edures: Submit shop drawings in accordance with the General Requirements of owner-Construction Management Contract	1.10 JOB CONDITIONS
Reports: Report of concrete compression, yield and slump tests.	<ul> <li>Allowable concrete temperatures:</li> <li>1. Hot Weather: Maximum 90 Degrees F as per ASTM C-94 and ACI 305.</li> </ul>
ficates: Submit manufacturer's certification that concrete mix materials meet specified	<ol> <li>Cold Weather: In accordance with ACI 306.</li> </ol>
requirements.	B. Do not place concrete during rain, unless adequate protection is provided.
Material content per cubic yard of each class of concrete furnished: a. Dry weights of cement.	C. Grade Control: Establish and maintain the existing lines and grades, including crown and cross-slope as indicated on the drawings. All concrete surfaces must positively drain toward drainage structures. Any pavement surface which does not positively drain
<ul> <li>b. Saturated surface-dried weights of fine and coarse aggregate.</li> <li>c. Quantities, type and name of admixtures.</li> <li>d. Weight of water.</li> </ul>	or allows water to pond shall be removed and replaced by the contractor at no additional cost to the Owner.
Ready-mix delivery tickets, ASTM C94.	D. Maintain temperature of concrete above 50 Degrees F for seven (7) days after placing. Protect work against frost and rapid drying.
uct Data: Manufacturer's product literature and application/installation procedures I products intended for use in the work such as, but not limited to, joint sealants,	E. Traffic Control:
xtures, and curing materials. nit shop drawings and the following to Architect:	<ol> <li>Restrict vehicular and pedestrian traffic during all paving operations, as required for other construction activities. Obtain Owner approval prior to rerouting any traffic.</li> </ol>
Plant Qualifications: Submit satisfactory evidence indicating compliance with the specified qualification requirements.	<ol> <li>Provide flagmen, barricade, warning signs, and warning lights for movement of traffic and safety, and to cause the least interruption of work.</li> </ol>
Materials: Submit satisfactory evidence indicating that all materials listed in Part 2 meet the specified requirements.	
Design Mix: Submit the design mix to be used for review prior to placing of	
concrete. The design of the mix is the responsibility of the Contractor, subject to	2.1 CONCRETE MATERIALS
4 PORTLAND CEMENT CONCRETE PAVING	5 PORTLAND CEMENT CONCRETE PAVING
Store materials above ground on framework or blocking, and cover with protective	
waterproof covering. Provide for adequate air circulation throughout material stacks.	3.4 FORMWORK
nsion joint backer rod shall be round, closed cellpolyethylene rod with a diameter of (3 mm) larger than the width of the joint.	A. Provide formwork design for all concrete paving. Coordinate design, construction, and placement with all other trades and contractors.
KECUTION	B. Set the forms straight, free from warp or bends, and true to line and grade. Set forms with a 1/8" per foot cross slope or as shown on plans. Construct all concrete paving slab thickness as indicated on plans.
RICADES	<ul> <li>C. Contractor is responsible for the design, construction, removal, and complete safety of formwork and shoring.</li> </ul>
de substantial temporary barricades around all areas of operation and maintain work under this section is completed and approved.	<ul> <li>Design formwork so it will be sufficiently tight to prevent leakage during concrete</li> </ul>
Il temporary traffic markers, signals, and signs as per D.O.T. Standard ifications to:	placement. E. Construct formwork as required to obtain the exact size, shape, line level, alignment,
Eliminate potentially hazardous conditions.	location, elevation and grades, as indicated on drawings for the finished structure. F. Fill voids of plywood joints with sealant and tool smooth.
Maintain adequate traffic patterns free of conflict with work under this Contract.	G. Form vertical surfaces to full depth and securely position to required lines and levels.
ECTION ine all surfaces over which concrete is to be applied.	Ensure form ties are not placed so as to pass through concrete. H. Arrange and assemble formwork to permit easy dismantling and stripping, and to
Ensure that no defects, low sections, depressions, or holes are present which would jeopardize the standard of finish specified.	prevent damage to concrete during formwork removal. Avoid hammering or prying against concrete surfaces.
would jeopardize the standard of minish specified. pact subgrade using heavy vibratory equipment. Check for unstable areas. Check eas requiring additional compaction.	<ol> <li>Cleaning and Tightening:</li> <li>Thoroughly clean form and remove chips, wood, sawdust, dirt, or other debris just</li> </ol>
re that compacted subgrade or base and formwork are completed and that excess	<ol> <li>Thoroughly clean form and remove chips, wood, sawdust, dirt, or other debris just before concrete is to be placed.</li> <li>Bo tighten forms during or immediately after concrete placement, so may be</li> </ol>
r has been removed from excavations. Verify elevations of base are correct.	<ol> <li>Re-tighten forms during or immediately after concrete placement, as may be required, to eliminate any leaks.</li> </ol>
y that expansion joint materials and other embedded items are in their proper ions and adequately secured against shifting during placement of concrete.	<ul> <li>J. Taping of Joints:</li> <li>1. Apply pressure sensitive tape over all formwork joints which will be exposed in the</li> </ul>
and acceptanty cool of against similary during pracement of concrete.	finish work.
e no concrete until forms, base, reinforcement, and other embedded items have reviewed and approved by Owner's Representative or Architect with a minimum of	<ol> <li>Tape joints before form release agent is applied to formwork.</li> <li>K. Coat form contact surfaces with form-coating compound before reinforcement is placed.</li> </ol>
Surs notice.	Do not allow excess form coating material to accumulate in the forms or to come into contact with surfaces which will be embedded in concrete. Apply in compliance with manufacturer's instructions.
ations where compacted backfill cannot achieve 98% compaction, place and level ock base over prepared subgrade to a compacted depth of twelve inches (12") or	L. Edge Forms and Screeds Strips for Slabs: Set edge forms or bulkheads and intermediate screed strips for slabs to obtain required elevations and contours in the
quired by soils and subsurface investigation, true to lines and levels. Compact to compaction as per AASHTO T-180.	finished slab surfaces. Provide and secure units to support types of screeds required.
10 PORTLAND CEMENT CONCRETE PAVING	1 ) PORTLAND CEMENT CONCRETE PAVING
ations and make necessary repairs to damaged areas, returning to original	B. Defective concrete shall be removed and replaced, or at discretion of the Owner's
ition.	Representative, adequately strengthened and resurfaced in a manner acceptable to Owner.
KFILLING AND COMPACTING the concrete has set sufficiently, refill the spaces adjacent to the concrete to the	3.14 CLEAN-UP
red elevation with suitable material. Place and thoroughly compact ninety percent ) of relative density.	<ul><li>A. Remove all debris and excess material immediately from project site.</li><li>B. Take down all barricades and temporary traffic markers, signals and signs only after all</li></ul>
D QUALITY CONTROL Cvlinders: Take sample test cvlinders of each mix design.	work included in this section is finished and inspected, and only after so directed by Owner's Representative.
Cylinders: 1 ake sample test cylinders of each mix design. Test cylinders in accordance with ASTM C39. Test cylinders at (7) days.	C. Leave project area neat, orderly, and free of any hazardous conditions.
Perform slump tests for each set of test cylinders.	<ul><li>3.15 GUARANTEE</li><li>A. The Contractor shall guarantee all work and materials contained in the section of the</li></ul>
iications: Provide batch tickets signed by the dispatcher and the laboratory inspector at the	specification and as indicated on the drawing for a two (2) year period commencing on the date on which all of the work or designated portion thereof is substantially complete according to the General Conditions.
ready-mix plant. Each batch ticket shall state batch quantities of cement, water, fine aggregates, coarse aggregates, and admixture contained in each truck load.	B. The Contractor shall remove and replace any of his work that expands, settles, spalls,
Mixer truck driver shall deliver a properly signed ticket with each load of ready-mix concrete.	cracks (beyond normal shrinkage), chips, or deteriorates during the designated guarantee period at no additional cost to the Owner.
ractor shall provide all test specimens as required by laboratory.	END OF SECTION
ECTIVE CONCRETE	COVERING PAVEMENT DURING CURING
rete will be deemed defective when: Tests on core or prism specimens fail to show strengths specified.	The concrete pavement shall be covered with plastic sheeting for the duration of the curing process. The concrete shall be hard enough to prevent damage from this placement.
Not formed as indicated or detailed.	
Not plumb or level where so indicated. Not true to intended grades and levels.	
Not true to intended grades and levels. Cut, filled or resurfaced, unless under direction of Owner.	
Debris is embedded therein.	
Not fully in conformance with provision of Contract Documents. Expansion and control joints which do not conform to plan locations or are not	
bes not positively drain toward drainage structures or water ponds on walkway	
Does not positively drain toward drainage structures or water ponds on walkway surface.	
14	15
14 PORTLAND CEMENT CONCRETE PAVING	15 PORTLAND CEMENT CONCRETE PAVING
	<u> </u>
	SCALE:
	N.T.S.
	UIESAND
SPECIFIC	CATIONS SHEET

4 OF 8



## ORANGE COUNTY CONVENTION CENTER HALL C (MAIN LOBBY)

LIMITS OF

CONSTRUCTION

C4

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### **#** SITE CONSTRUCTION KEYNOTES

H

### C1. CONCRETE PAVEMENT.

- C2. EXISTING CURB & GUTTER TO REMAIN.
- C3. EXISTING STAMPED CONCRETE TO REMAIN.
- C3A. EXISTING STAMPED CONCRETE TO BE REPLACED.
- C4. EXISTING STORM INLET TO REMAIN.
- C5. NEW SPEED HUMPS PER DETAIL ON SHEETS 3 AND 7.
- C6. EXISTING CONCRETE PAVEMENT TO REMAIN.
- C7. EXISTING LIGHT POLE TO REMAIN.
- C8. CONSTRUCT CONCRETE CURB & GUTTER, FDOT TYPE "F".

### GRADING KEYNOTES

G1. MATCH EXISTING PAVEMENT GRADE AT PROJECT ENDS AND GUTTER ALONG ENTIRE PROJECT LIMITS.

## PLAN LEGEND

NEW CONCRETE PAVEMENT IN HATCHED AREAS.

SPEED BUMP STAMPED PAVEMENT PROJECT LIMITS

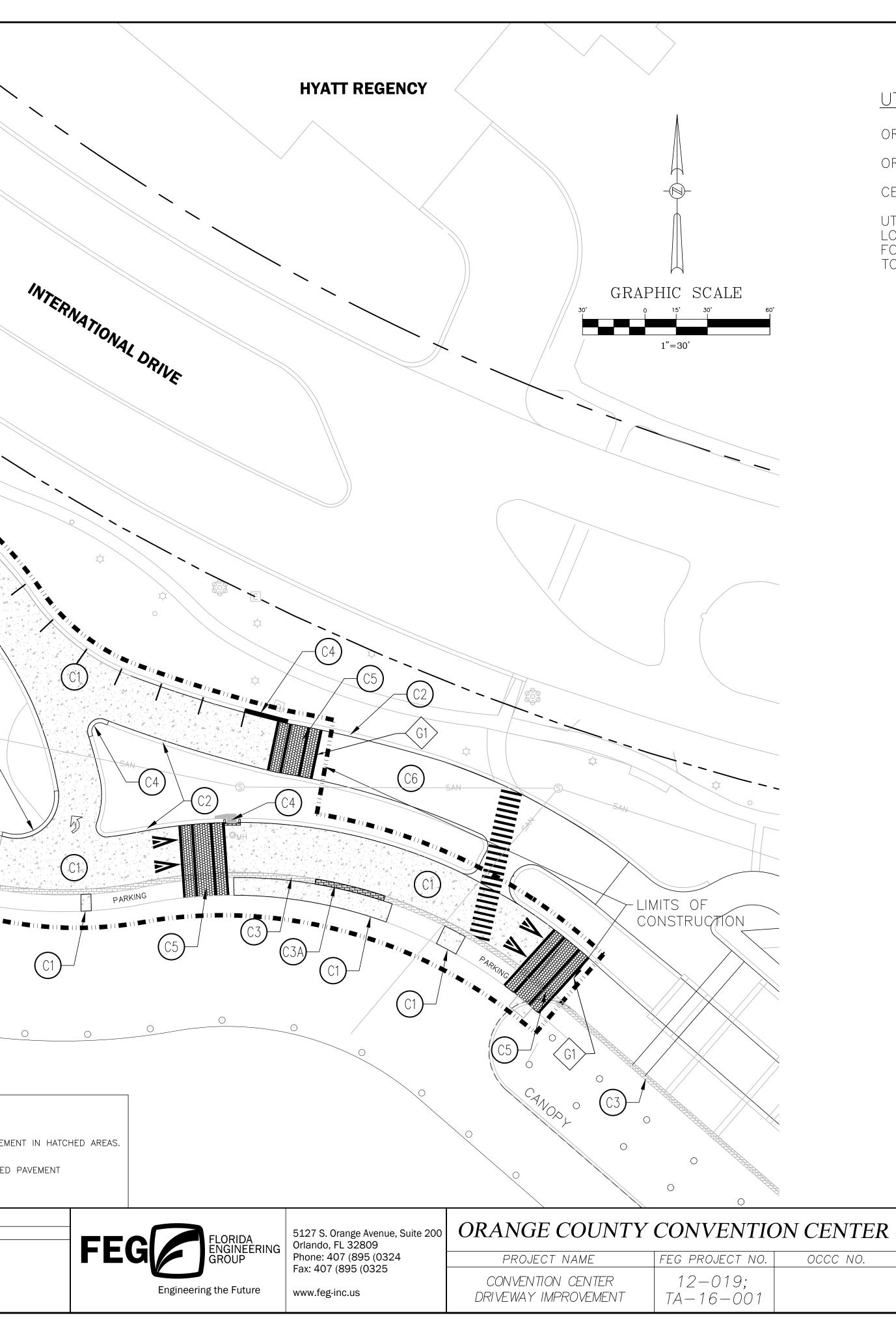
C1

(C1)

G1 >

REVISIONS					
DATE BY	DESCRIPTION	DATE	BY	DESCRIPTION	
					F

(C6)



## UTILITIES COMPANIES:

ORLANDO UTILITY COMMISSION

ORANGE COUNTY UTILITIES

CENTURY LINK

UTILITIES SHOWN ARE BASED UPON OCCC PLANS OR FIELD LOCATES BY UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION.

SITE GEOMETRY - PAV	/ING PLAN 1"=30'
	SHEET 60F8

