

PRE-ENGINEERED METAL BUILDINGS (PEMB) ORANGE COUNTY UTILITIES OPERATIONS CENTER 8100 PRESIDENTS DRIVE, ORANGE COUNTY, FLORIDA PARCEL I.D. No. 33-23-09-7268-00-102

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LEGAL DESCRIPTION:

(LEGAL DESCRIPTION PER OFFICIAL RECORDS BOOK 4142, PAGES 2189 AND 2190)
*A PARCEL OF LAND LOCATED IN THE NW 1/4 OF SECTION 33, TOWNSHIP 23 SOUTH, RANGE 29 EAST, ORANGE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE NORTHWEST CORNER OF SECTION 33, TOWNSHIP 23 SOUTH, RANGE 29 EAST, ORANGE COUNTY, FLORIDA; THENCE ALONG THE NORTH LINE OF SAID NW 1/4 OF SECTION 33, NORTH 89 DEGREES 20 MINUTES 41 SECONDS EAST, 1673.69 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF FLORIDA TURNPIKE (ALSO KNOWN AS SUNSHINE STATE PARKWAY); THENCE ALONG SAID RIGHT-OF-WAY LINE OF FLORIDA'S TURNPIKE S 30 DEGREES 59 MINUTES 57 SECONDS EAST, 197.14 FEET TO A POINT AT THE INTERSECTION WITH THE SOUTHERLY RIGHT-OF-WAY LINE OF S.R. 528 (ALSO KNOWN AS SAND LAKE ROAD), SAID POINT BEING THE POINT OF BEGINNING.
THENCE ALONG SAID RIGHT-OF-WAY OF S.R. 528 NORTH 89 DEGREES 20 MINUTES 41 SECONDS EAST, 398.06 FEET TO A POINT; THENCE LEAVING SAID RIGHT-OF-WAY OF S.R. 528, SOUTH 30 DEGREES 59 MINUTES 47 SECONDS EAST, 336.15 FEET TO A POINT; THENCE NORTH 89 DEGREES 46 MINUTES 34 SECONDS EAST, 382.94 FEET TO A POINT; THENCE SOUTH 00 DEGREES 13 MINUTES 05 SECONDS EAST, 197.75 FEET TO A POINT; THENCE NORTH 89 DEGREES 46 MINUTES 38 SECONDS EAST, 140.00 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF PRESIDENTS DRIVE (60 FOOT RIGHT-OF-WAY); THENCE CONTINUING ALONG THE WESTERLY RIGHT-OF-WAY LINE OF PRESIDENTS DRIVE SOUTH 00 DEGREES 12 MINUTES 43 SECONDS EAST, 50.00 FEET TO A POINT; THENCE LEAVING SAID RIGHT-OF-WAY LINE, SOUTH 89 DEGREES 46 MINUTES 38 SECONDS WEST, 140.00 FEET TO A POINT; THENCE SOUTH 00 DEGREES 13 MINUTES 05 SECONDS EAST, 459.71 FEET TO A POINT; THENCE NORTH 89 DEGREES 46 MINUTES 38 SECONDS EAST, 140.00 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF PRESIDENTS DRIVE; THENCE CONTINUING ALONG THE WESTERLY RIGHT-OF-WAY LINE OF PRESIDENTS DRIVE SOUTH 00 DEGREES 12 MINUTES 43 SECONDS EAST, 65.00 FEET TO A POINT; THENCE LEAVING SAID RIGHT-OF-WAY LINE OF PRESIDENTS DRIVE, SOUTH 89 DEGREES 46 MINUTES 38 SECONDS WEST, 140.00 FEET TO A POINT; THENCE SOUTH 00 DEGREES 13 MINUTES 05 SECONDS EAST, 385.05 FEET TO A POINT; THENCE SOUTH 59 DEGREES 01 MINUTES 19 SECONDS WEST, 80.14 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF FLORIDA'S TURNPIKE; THENCE CONTINUING IN A NORTHERLY DIRECTION ALONG SAID RIGHT-OF-WAY LINE OF FLORIDA'S TURNPIKE, NORTH 30 DEGREES 59 MINUTES 57 SECONDS WEST, 1727.60 FEET TO A POINT, SAID POINT BEING THE POINT OF BEGINNING."

CODE SUMMARY (FLORIDA BUILDING CODE 2010):

ADDITION OF A PEMB CANOPY TO NORTH AND EAST SIDES OF EXISTING BUILDING:

EXIST. BLDG. NUMBER OF STORIES: 2 STORIES (NO CHANGE)
EXIST. BLDG. HEIGHT: 25' (NO CHANGE)
EXIST. BLDG. CONSTRUCTION TYPE: IIB, SPRINKLERED THROUGHOUT
EXIST. BLDG. OCCUPANCY TYPE (FBC 508.2.3): F-2 FACTORY INDUSTRIAL LOW HAZARD
EXISTING BUILDING AREA (FOOTPRINT): 62,815 S.F.
ALLOWABLE BUILDING AREA PER STORY (FBC 506.1 - EQUATION 5-1): 86,250 S.F.
 $23,000 + (23,000 \times .75) + (23,000 \times 2) = 86,250$
AREA OF PROPOSED CANOPIES: 19,264 S.F.
NORTH CANOPY - 122' X 112' = 13,664 S.F.
EAST CANOPY - 20' X 280' = 5,600 S.F.
TOTAL PROPOSED BLDG. AREA W/ CANOPIES: 82,079 S.F.
CANOPY CONSTRUCTION TYPE: IIB, SPRINKLERED THROUGHOUT
CANOPY OCCUPANCY TYPE: F-2 FACTORY INDUSTRIAL LOW HAZARD
CANOPY OCCUPANCY LOAD (FBC TABLE 1004.1.1): 38
NORTH CANOPY - 13,664 S.F. / 500 = 28
EAST CANOPY - 5,600 S.F. / 500 = 12

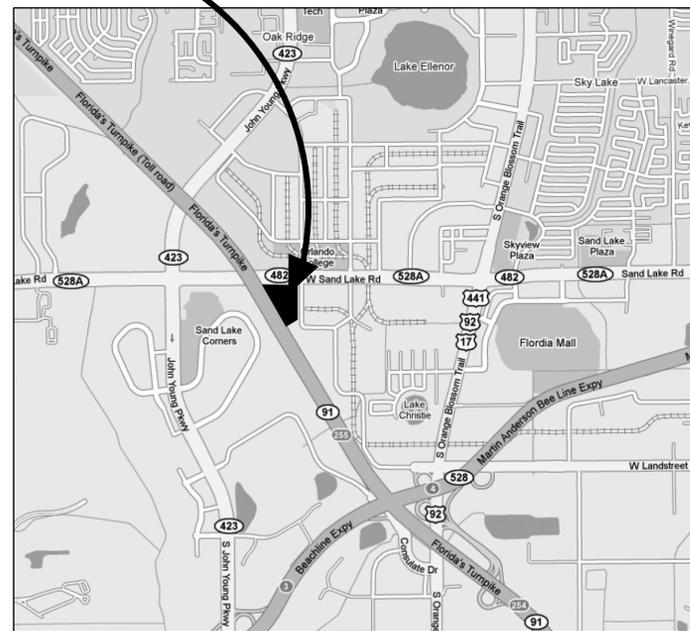
FREESTANDING PEMB STRUCTURE TO NORTH OF EXISTING BUILDING:

NUMBER OF STORIES: 2 STORIES
HEIGHT: APPROX. 24'
AREA (FOOTPRINT): 348' x 34' = 11,832 S.F.
CONSTRUCTION TYPE: IIB
CANOPY OCCUPANCY TYPE: S-2 LOW HAZARD STORAGE
TYPES OF ITEMS TO BE STORED: FORK LIFTS, PORTABLE GENERATORS, ETC.
CANOPY OCCUPANCY LOAD (FBC TABLE 1004.1.1): 40
FREESTANDING CANOPY - 11,832 S.F. / 300
MINIMUM NUMBER OF EXITS: FOR OCCUPANT LOAD 1-500: 2 EXITS MIN. REQUIRED (TABLE 1021.1)
STAIRS (PER SECTION 1005.1): 0.3 INCHES/PERSON, 40 X 0.3 = 12 INCHES REQUIRED) : 72 INCHES PROVIDED
NOTE: MINIMUM STAIR WIDTH IS 36" PER FBC SECTION 1009.1, EXCEPTION 1
ALLOWABLE TRAVEL DISTANCE: 300 FEET (PER TABLE 1016.1)
ALLOWABLE COMMON PATH OF TRAVEL: 75 FEET (PER SECTION 1014.3)



JUNE 9, 2014

PROJECT LOCATION



VICINITY MAP

SCALE: N.T.S.



THIS SITE IS LOCATED ADJACENT TO THE FLORIDA TURNPIKE, APPROXIMATELY 0.9 MILES WEST OF THE ORANGE BLOSSOM TRAIL, SOUTH OF W. SAND LAKE ROAD ON PRESIDENTS DRIVE.

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CIVIL

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THE CONTRACTOR WILL BE RESPONSIBLE FOR PULLING SEPARATE ORANGE COUNTY BUILDING PERMITS AS FOLLOWS:

#B13901132 (NORTH & EAST CANOPIES)

#B13901482 (FREESTANDING STRUCTURE)

#B13901483 (MATERIAL STORAGE WALLS)

#B13901484 (DUMPSTER ENCLOSURE)

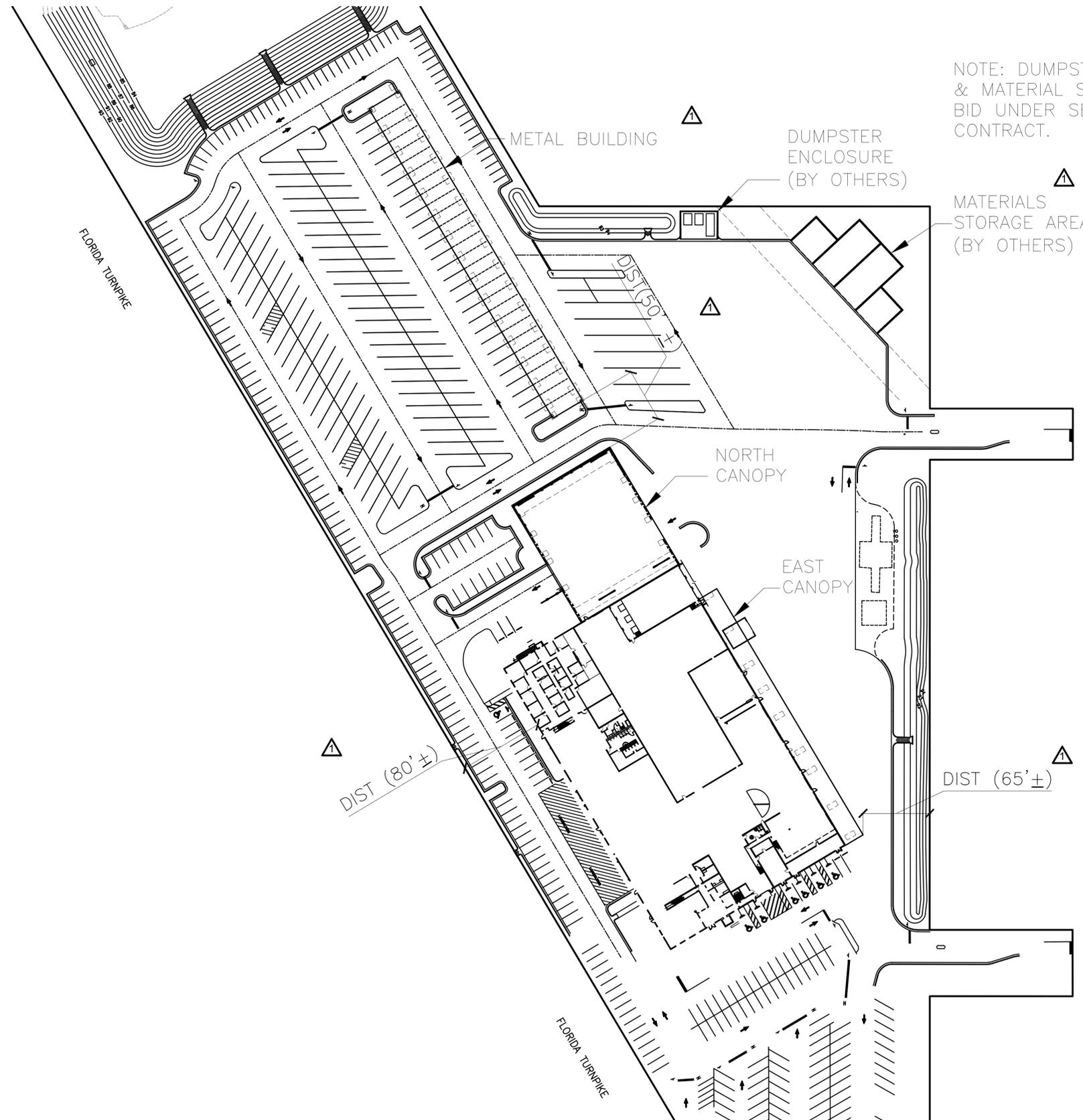
NOTE: THE MATERIAL STORAGE WALLS & DUMPSTER ENCLOSURE BID UNDER SEPARATE BID CONTRACT.

PERMIT REVIEW 5/14/13 RE-BID SET 4/4/14
ADDENDUM NO. 1 6/8/13 RE-BID SET 6/9/14
CONFORMED DOCS. 3/14/14

ORANGE COUNTY UTILITIES OPERATIONS CENTER
ORANGE COUNTY, FLORIDA
AEP FILE NO. 107-0745-001

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RS&H
IMPROVING YOUR WORLD



NOTE: DUMPSTER ENCLOSURE & MATERIAL STORAGE AREA BID UNDER SEPARATE CONTRACT.

ARCHITECTURAL SITE PLAN



1
A-0.0

SCALE: 1" = 60'-0"

FOR FOUNDATION PLANS, SEE SHEETS S-1.0, S-1.1 & S-1.2

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PROJECT
 Orange County Utilities
 Operations Center
 8100 Presidents Drive
 Orlando, Florida 32809
 PRE-ENGINEERED
 METAL BUILDINGS
 PEMB PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	PEMB ADD. NO. 1	6/6/13
3	CONFORMED DOCS.	3/14/14
4	OWNER CHANGES	4/4/14

DATE ISSUED: MARCH 15, 2013
 REVIEWED BY: DD
 DRAWN BY: PFM
 DESIGNED BY: PFM

AEP PROJECT NUMBER
 107-0745-001
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 SHEET TITLE

ARCHITECTURAL
 SITE PLAN

SHEET NUMBER
 A-0.0

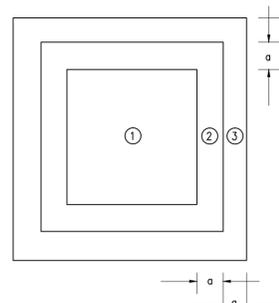
BID SET

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:

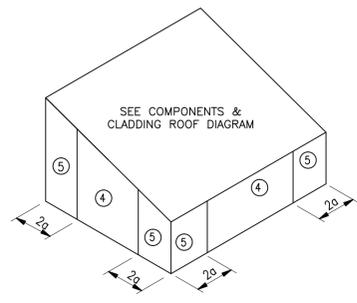
DESIGN PER 2010 FLORIDA BUILDING CODE

- LIVE LOADS
 - BUILDING ROOF (TYPICAL) 20 PSF
 - METAL BUILDING 2ND FLOOR 250 PSF
 - STAIR AND LANDING 100 PSF
- WIND LOADS (PER ASCE 7-10)
 - BASIC WIND SPEED (3 SEC. GUST), RISK CATEGORY II 136 MPH
 - EXPOSURE CATEGORY "C"
 - INTERNAL PRESSURE COEFFICIENT ±0.18
 - COMPONENTS & CLADDING WIND PRESSURES SEE CHART, THIS SHEET
- SEISMIC LOADS (PER ASCE 7-10)
 - EARTHQUAKE DESIGN DATA
 - SEISMIC IMPORTANCE FACTOR 1.0
 - MAPPED SPECTRAL RESPONSE COEFFICIENTS $S_s = 3.7\% g$
 $S_1 = 3.8\% g$
 - SITE CLASS D
 - SPECTRAL RESPONSE COEFFICIENTS $S_{ds} = 8.2\% g$
 $S_{d1} = 6.0\% g$
 - SEISMIC DESIGN CATEGORY A
 - THESE BUILDINGS ARE DESIGNED AS A STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
- WELDS SHALL BE E70XX ELECTRODE PER AWS D1.1 CODE (CURRENT EDITION).
- MASONRY: $f_m = 1,500$ PSI



ROOF DIAGRAM

- EDGE ZONE (a) IS DISTANCE FROM CORNERS OF BUILDINGS AND IS SHOWN ON DIAGRAM ABOVE.
- POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDINGS SURFACES, RESPECTIVELY.
- FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED OTHERWISE USE THE LOWER EFFECTIVE AREA.
- $K_d = .85$ WAS USED FOR THE CALCULATION OF THE LISTED WIND PRESSURES.



WALL DIAGRAM

COMPONENTS AND CLADDING GROSS WIND PRESSURES:

$\alpha = 6'-0"$		EAST CANOPY ROOF							
ZONE		EFFECTIVE WIND AREA (PSF)							
		≤ 10		20		50		≥ 100	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
INTERIOR	1	40.0	-40.0	40.0	-40.0	40.0	-40.0	40.0	-40.0
EDGE	2	58.5	-58.5	58.5	-58.5	40.0	-40.0	40.0	-40.0
CORNER	3	58.5	-58.5	58.5	-58.5	40.0	-40.0	40.0	-40.0

$\alpha = 9'-0"$		NORTH CANOPY ROOF							
ZONE		EFFECTIVE WIND AREA (PSF)							
		≤ 10		20		50		≥ 100	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
INTERIOR	1	39.7	-39.7	39.7	-39.7	39.7	-39.7	39.7	-39.7
EDGE	2	59.5	-59.5	59.5	-59.5	59.5	-59.5	59.5	-59.5
CORNER	3	79.3	-119.0	79.3	-119.0	79.3	-119.0	79.3	-119.0

$\alpha = 3'-0"$		METAL BUILDING ROOF							
ZONE		EFFECTIVE WIND AREA (PSF)							
		≤ 10		20		50		≥ 100	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
INTERIOR	1	44.0	-44.0	44.0	-44.0	44.0	-44.0	44.0	-44.0
EDGE	2	64.3	-64.3	64.3	-64.3	44.0	-44.0	44.0	-44.0
CORNER	3	84.6	-128.5	64.3	-64.3	44.0	-44.0	44.0	-44.0

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE DESIGNED PER THE CURRENT EDITION OF A.I.S.C. WIDE FLANGE SHAPES A.S.T.M. A992, $F_y = 50$ KSI
STEEL TUBES A.S.T.M. A500, GRADE "B" $F_y = 46$ KSI
STEEL PIPES A.S.T.M. A500, GRADE "B" $F_y = 42$ KSI
ALL OTHER STEEL A.S.T.M. A36, $F_y = 36$ KSI
- ALL BOLTS SHALL BE 3/4 INCH DIA. (A.S.T.M. A325 OR A449) UNLESS OTHERWISE NOTED.
- ALL ANCHOR BOLTS SHALL BE F1554 GR. 36. PROVIDE $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$ PLATE WASHER, TYP. U.N.O.
- WELDING SHALL CONFORM TO ANSI/AWS D1.1
- MINIMUM SIZE OF ALL FILLET WELDS SHALL CONFORM TO TABLE J2.4 OF A.I.S.C. SPECIFICATIONS EVEN THOUGH SHOWN OTHERWISE ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- STRUCTURAL STEEL NOT ENCASED IN CONCRETE OR MASONRY SHALL BE SHOP PAINTED AS SPECIFIED. ANY ABRASION SHALL BE TOUCHED-UP AFTER ERECTION.
- FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START FABRICATION. FABRICATION SHALL CONFORM TO A.I.S.C. SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED PER SECTION 10 "ARCHITECTURALLY EXPOSE STRUCTURAL STEEL" OF THE AISC CODE OF STANDARD PRACTICE.
- STRUCTURAL GROUT FOR STEEL COLUMNS SHALL BE A NON-SHRINKAGE NON-EXPANSIVE, NON-METALLIC GROUT WITH A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.

FOUNDATION NOTES:

- SOIL REPORT BY: NODARSE & ASSOCIATES, INC.
REPORT NO. 01-08-0335-110A
JANUARY 19, 2010
- PREPARE SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- DESIGN PRESSURE:
CONTINUOUS FOOTING: 2000 PSF
ISOLATED FOOTING: 2000 PSF
- FOOTINGS SHALL BEAR AT LEAST 16 INCHES BELOW THE FINISHED EXTERIOR GRADE.
- SLABS ON GRADE SHOULD BE CONSTRUCTED DIRECTLY ON MIN. 10 MIL VAPOR BARRIER ON A FREE-DRAINING COMPACTED FINE SAND SUBGRADE OF AT LEAST 12 INCHES IN THICKNESS.
- IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL THE ENGINEER SHALL BE NOTIFIED.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND OTHER MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION.
- REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
- ALL FOUNDATION WORK SHALL BE INSPECTED AND APPROVED FOR REQUIRED SOIL BEARING CAPACITY BY A COMPETENT SOILS ENGINEER OR THEIR REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.
- ALL PRE-ENGINEERED COLUMN FOUNDATION SIZES AND REINFORCING ARE BASED ON ESTIMATED COLUMN LOADS. PRIOR TO FABRICATION AND CONSTRUCTION, FOUNDATION REACTIONS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR FOUNDATION DESIGN.

PRE-ENGINEERED CANOPY NOTES:

- BUILDINGS SHALL BE A PRE-ENGINEERED BUILDING AS SPECIFIED IN SECTION 13120. THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PREFABRICATED METAL STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN, EXCEPT AS NOTED. RIGID FRAMES SHALL BE SPACED AT CENTER TO CENTER, BUT OVERALL DIMENSIONS AND CONSTRUCTION DETAILS MAY VARY TO SUIT MANUFACTURER'S STANDARD DESIGN.
- THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC AND AISI LATEST SPECIFICATIONS. THE DIMENSIONAL TOLERANCES OUTLINED IN THE AWS CODE UNDER WORKMANSHIP AND THE TOLERANCES APPLICABLE TO ROLL FORM STEEL UNDER THE AISC "STANDARD MILL PRACTICE" SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
- A COMPLETE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR THE RIGID FRAMES, GIRTS, JOISTS AND PURLINS, AND A LAYOUT OF ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF ALL MAIN MEMBERS, TYPICAL CONNECTIONS (SHOWING BOLT HOLES AND WELDS), AND ERECTION DRAWINGS.
- THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING LIGHTS AND SPRINKLERS. A MINIMUM COLLATERAL LOAD OF 3 PSF SHALL BE INCLUDED IN THE DESIGN.
- WIND LOADS, LIVE LOADS AND LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, 2010.
- DIAGONAL OR CROSS BRACING OR MOMENT/PORTAL FRAMES SHALL BE USED TO RESIST LATERAL LOADS.

FINISHES:

- THE INTENT IS TO HAVE LOW-MAINTENANCE FINISHES WITH MINIMUM PAINTING. ONLY THE PEMB STEEL WITH FACTORY PRIMER WILL RECEIVE FINISH PAINTING. ALL OTHER SURFACES THAT ARE HOT DIPPED GALVANIZED OR FACTORY FINISHED WILL REMAIN UNPAINTED. ROOF PANELS TO HAVE FACTORY FINISH ON EXTERIOR SIDE AND GALVANIZED FINISH ON INTERIOR. STAIRS, LANDINGS AND RAILINGS FOR THE 2-STORY METAL BUILDING TO BE HOT-DIPPED GALVANIZED STEEL (LAPEYRE STAIR OR EQUAL, BOLT-TOGETHER MODEL 01/02 AA WITH CONCRETE PAN, MINIMUM 36" WIDTH).

CONCRETE MASONRY UNIT NOTES:

- ALL MASONRY WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6).
- CONCRETE MASONRY UNITS SHALL BE ASTM C90, GRADE N, TYPE I.
- MORTAR SHALL CONFORM TO ASTM C270 TYPE S TYPICAL WITH TYPE M USED BELOW GRADE (U.O.N.).
- GROUT COMPRESSIVE STRENGTH SHALL BE ACHIEVED AT 28 DAYS. GROUT SOLID ALL CELLS WITH REINFORCING.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WILD DRAWN STEEL WIRE SHALL CONFORM TO ASTM A82.
- METAL ANCHORS AND TIES SHALL BE OF CORROSION RESISTANT METAL HOT DIPPED GALVANIZED.
- JOINT REINFORCING SHALL BE #8 DEFORMED LONGITUDINAL WIRES AND SMOOTH CORROSION RESISTANT CROSS WIRES. SPACE AT 16" O.C. VERTICAL PLATE REINFORCEMENT 5/8" CLEAR FROM EXPOSED FACES AND 1/2" CLEAR FROM INTERIOR FACES OF MASONRY.
- UNLESS OTHERWISE NOTED ALL C.M.U. WALLS SHALL BE REINFORCED WITH (2)-#5 AT EACH CORNER, CELLS ADJACENT TO EACH CORNER, AND EACH SIDE OF ALL OPENINGS AND RECESSES. PROVIDE (2)-#5 IN EACH OF 2 CELLS EACH SIDE OF OPENINGS OF 6'-0" OR MORE.
- BOND OF BLOCK SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.
- MASONRY CELLS FILLED WITH GROUT SHALL BE GROUTED IN INCREMENTS NOT EXCEEDING 5'-0" VERTICALLY.
- PROVIDE TEMPORARY BRACING FOR MASONRY WALLS UNTIL THEY ARE CONSTRUCTED TO THEIR FINAL DESIGN CONDITION.
- PROVIDE MASONRY CONTROL JOINTS (MCJ) WHERE INDICATED ON PLAN. SEE DETAIL ON S-2.1 AND SPEC'S FOR ADD'L INFORMATION.
- LAP SPLICES OF REINFORCING BARS SHALL BE AS FOLLOWS:

	8" CMU	
	SINGLY REINFORCED	DOUBLY REINFORCED
#3	18"	18"
#4	24"	24"
#5	30"	34"
#6	39"	60"

GENERAL STRUCTURAL NOTES:

- THE STRUCTURAL NOTES SHALL GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE PROJECT SPECIFICATION AND OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING PROJECT SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWING PACKAGES.
- THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION. REFER TO DEMOLITION PLANS FOR EXTENT OF EXISTING STRUCTURE TO BE REMOVED. STRUCTURAL DRAWINGS AND DETAILS REFLECT CONDITION OF EXISTING STRUCTURE AFTER DEMOLITION WORK IS COMPLETED.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS, ETC.
- FOR TYPICAL DETAILS SHOWN BUT NOT REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS OF EXISTING SITE AND STRUCTURE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FINISH FLOOR ELEVATIONS AND MATCH EXISTING ELEVATIONS WITH ADJACENT NEW FLOOR CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURE ADJACENT TO NEW WORK AND COORDINATE ALL DISCREPANCIES WITH CONTRACT DOCUMENTS PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

CONCRETE:

- ALL CONCRETE SHALL BE DESIGNED PER THE CURRENT EDITION OF A.C.I. 318
- ALL CONCRETE SHALL BE DESIGNED BY APPROVED LABORATORY, AND DESIGN MIX SHALL BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW, AND OBTAIN APPROVAL PRIOR TO USE.
 - WALLS 4000 PSI @ 28 DAY
 - ALL OTHER CONCRETE: 3000 PSI @ 28 DAY

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO A.S.T.M. SPECIFICATION A615 GRADE 60. ALL MESH REINFORCING SHALL CONFORM TO A.S.T.M. SPECIFICATION A185.
- REINFORCEMENT MARKED CONTINUOUS MAY BE SPLICED BY LAPPING 48 BAR DIAMETERS.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:
 - FOOTINGS 3"
 - SLABS ON GRADE CENTERED
 - PEDESTALS (OVER VERT. REINF.) 2"
- ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 531 DURING THE PLACING OF THE CONCRETE.
- ALL HOOKS IN REINF. BARS SHALL BE AN A.C.I. STANDARD HOOK, UNLESS NOTED OTHERWISE.
- REINFORCING BARS CONFORMING TO A.S.T.M. A706 SHALL BE USED FOR BARS REQUIRING WELDING.

ENGINEER OF RECORD

RS&H
IMPROVING YOUR WORLD

Reynolds, Smith and Hills, Inc.
301 E. Pine Street, Suite 350
Orlando, Florida 32801
407-893-8800 FAX 407-648-2128
www.rsandh.com
FL Cert. No. AKC001686 * 15260200565 *
EB0005820 * LCC000210 * 68238

CONSULTANT



JOHN J. CHRISTIE & ASSOCIATES
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CLIENT



PROJECT

Orange County Utilities
Operations Center
8100 Presidents Drive
Orlando, Florida 32809

PRE-ENGINEERED
METAL BUILDINGS
PEMB PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	ADDENDUM NO. 3	7/2/13
3	CONFORMED DOCS.	3/14/14
4	OWNER CHANGES	4/4/14
5	OWNER CHANGES	6/9/14

DATE ISSUED: MARCH 15, 2013

REVIEWED BY: REP

DRAWN BY: PFM

DESIGNED BY: PFM

AEP PROJECT NUMBER

107-0745-001

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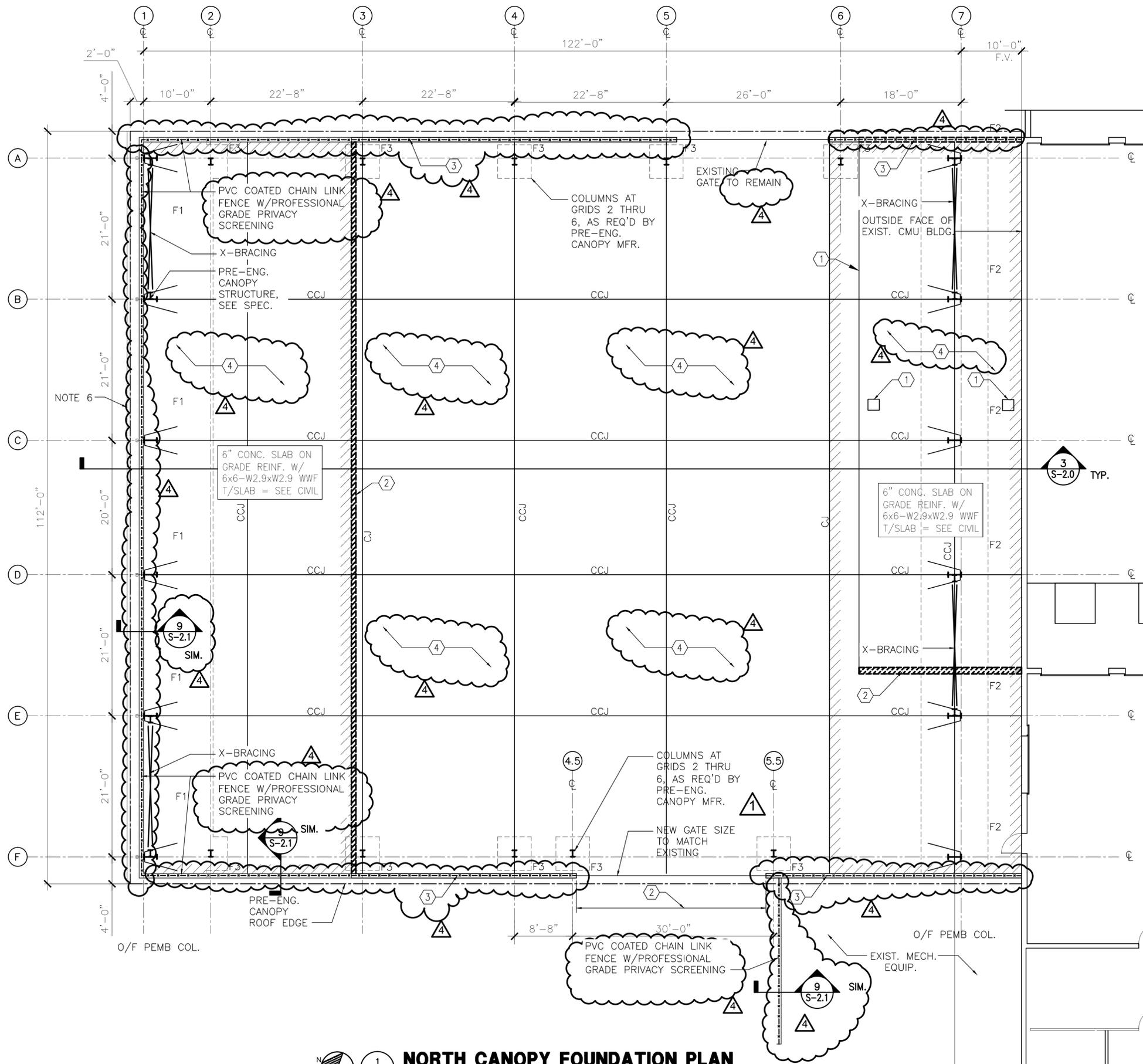
SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

S-0.0

BID SET



1 NORTH CANOPY FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

DEMOLITION KEYED NOTES:

NOTE: ALL DEMOLITION WORK, INCLUDING THE FOLLOWING KEYED NOTES, SHALL BE PERFORMED UNDER THE SCOPE OF THE CIVIL DRAWINGS.

- 1 EXISTING METAL CANOPY STRUCTURE ATTACHED TO EXISTING CMU BUILDING TO BE REMOVED. PEDESTALS TO BE REMOVED TO 2'-0" BELOW GRADE.
- 2 EXISTING CMU WALL TO BE REMOVED.
- 3 EXISTING CMU WALL TO BE REMOVED AND REPLACED W/ 8' PVC COATED CHAIN LINK FENCE.
- 4 REMOVE EXISTING ASPHALT PAVEMENT/CONCRETE SLAB AND REPLACE WITH 6" TH. CONCRETE SLAB ON GRADE POURED MONOLITHICALLY WITH P.E.M.B. FOOTING.

GENERAL NOTES:

- 1 T/SLAB EL. PER CIVIL DWG'S. MEET AND MATCH EXISTING PAVEMENT AT ALL NEW SLABS.
- 2 FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON DWG'S. FOR UNDERGROUND UTILITIES, SEE CIVIL DWG'S.
- 3 ENSURE ALL EXISTING ITEMS NOT MARKED FOR DEMOLITION ARE NOT DAMAGED OR DISTURBED DURING CONSTRUCTION.
- 4 F# INDICATES P.E.M.B. FOUNDATION. SEE SCHEDULE, S-2.2 FOR SIZE AND REINFORCEMENT.
- 5 CCJ INDICATES CRACK CONTROL JOINT. CJ INDICATES CONSTRUCTION JOINT. SEE 1/S-2.1.
- 6 CONTINUOUS GUTTER, MIN. WIDTH & DEPTH = 6"(6) DOWNSPOUTS LOCATED AT EACH COLUMN, MIN. SIZE = 3.75"X5".
- 7 SEE SECTION 02821 OF THE SPECIFICATIONS FOR CHAIN LINK FENCE.
- 8 ALL EXIST. PAVEMENT DEM'D TO ACCOMMODATE NEW FDN'S SHALL BE REPLACED IN KIND.
- 9 SEE FIRE PROTECTION DWG'S FOR SPRINKLERS SUPPORTED BY CANOPIES.
- 10 COORDINATE W/SITE CONTRACTOR FOR FOUNDATION & ERECTION OF BLDG. AT NO COST TO OWNER.

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 ORANGE COUNTY
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 FLORIDA

PROJECT
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 Operations Center
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 Orlando, Florida 32809
 PRE-ENGINEERED
 METAL BUILDINGS
 PEMB PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	CONFORMED DOCS.	3/14/14
3	OWNER CHANGES	4/4/14
4	OWNER CHANGES	6/9/14

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 DESIGNED BY: PFM

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 SHEET TITLE

CANOPY
 FOUNDATION
 PLANS

SHEET NUMBER
S-1.1

BID SET



Orange County Utilities
Operations Center
8100 Presidents Drive
Orlando, Florida 32809

PRE-ENGINEERED
METAL BUILDINGS
PEMB PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	CONFORMED DOCS.	3/14/14
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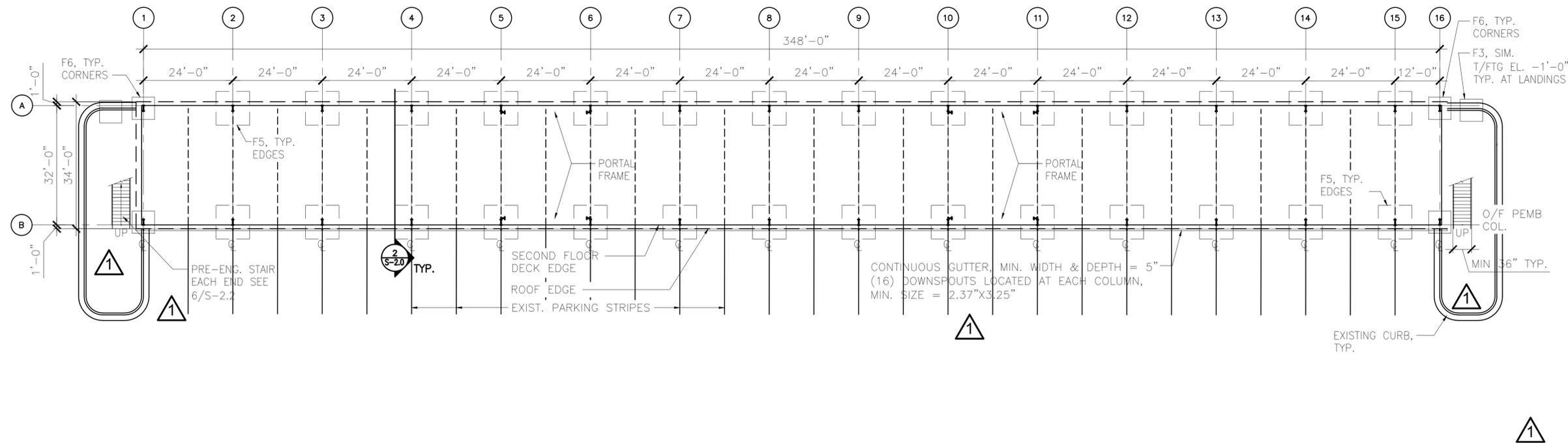
SHEET TITLE

CANOPY
FOUNDATION
& 2ND FLOOR
PLANS

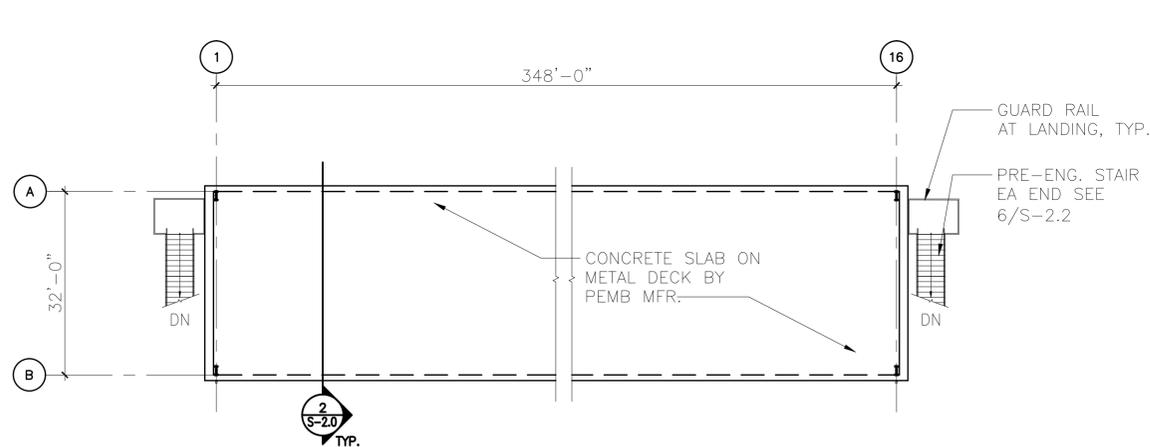
SHEET NUMBER

S-1.2

BID SET



METAL BUILDING FOUNDATION PLAN
SCALE: 1/16" = 1'-0"



METAL BUILDING SECOND FLOOR PLAN
SCALE: N.T.S.

GENERAL NOTES:

- T/SLAB EL. PER CIVIL DWG'S. SEE CIVIL DWG'S FOR LOCATION OF ALL BUILDINGS/CANOPIES SHOWN ON PLANS. MEET AND MATCH EXISTING PAVEMENT AT ALL NEW SLABS.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS SHOWN ON DWG'S PRIOR TO CANOPY DESIGN AND FABRICATION. FOR UNDERGROUND UTILITIES, SEE CIVIL DWG'S.
- ENSURE ALL EXISTING ITEMS NOT MARKED FOR DEMOLITION ARE NOT DAMAGED OR DISTURBED DURING CONSTRUCTION.
- F# INDICATES P.E.M.B. FOUNDATION. SEE SCHEDULE, S-2.2 FOR SIZE AND REINFORCEMENT.
- O/F INDICATES OUTSIDE FACE.
- MCJ INDICATES MASONRY (WALL) CONTROL JOINT. SEE 5/S-2.1.
- ALL EXIST. PAVEMENT DEMO'D TO ACCOMMODATE NEW FDN'S SHALL BE REPLACED IN KIND.
- CMU STUCCO FINISH & BARBED WIRE TO MATCH EXIST. CMU, TYP.
- SEE FIRE PROTECTION DWG'S FOR SPRINKLERS SUPPORTED BY CANOPIES.
- COORDINATE W/SITE CONTRACTOR FOR FOUNDATION & ERECTION OF BLDG. AT NO COST TO OWNER.
- STAIR AND LANDING GUARD RAIL BY PEMB. MFR.
- GUARD RAIL AT EDGE OF FLOOR, 1 1/2" PIPE W/POSTS @ 4'-0" O.C. TYP. PROVIDE (4) 6'-0" LONG REMOVABLE SECTIONS. LOCATIONS TO BE DETERMINED BY OWNER.

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PRE-ENGINEERED
METAL BUILDINGS
PEMB PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	PEMB ADD. NO. 6	8/1/13
3	CONFORMED DOCS.	3/14/14
4	OWNER CHANGES	4/4/14
5	OWNER CHANGES	6/9/14

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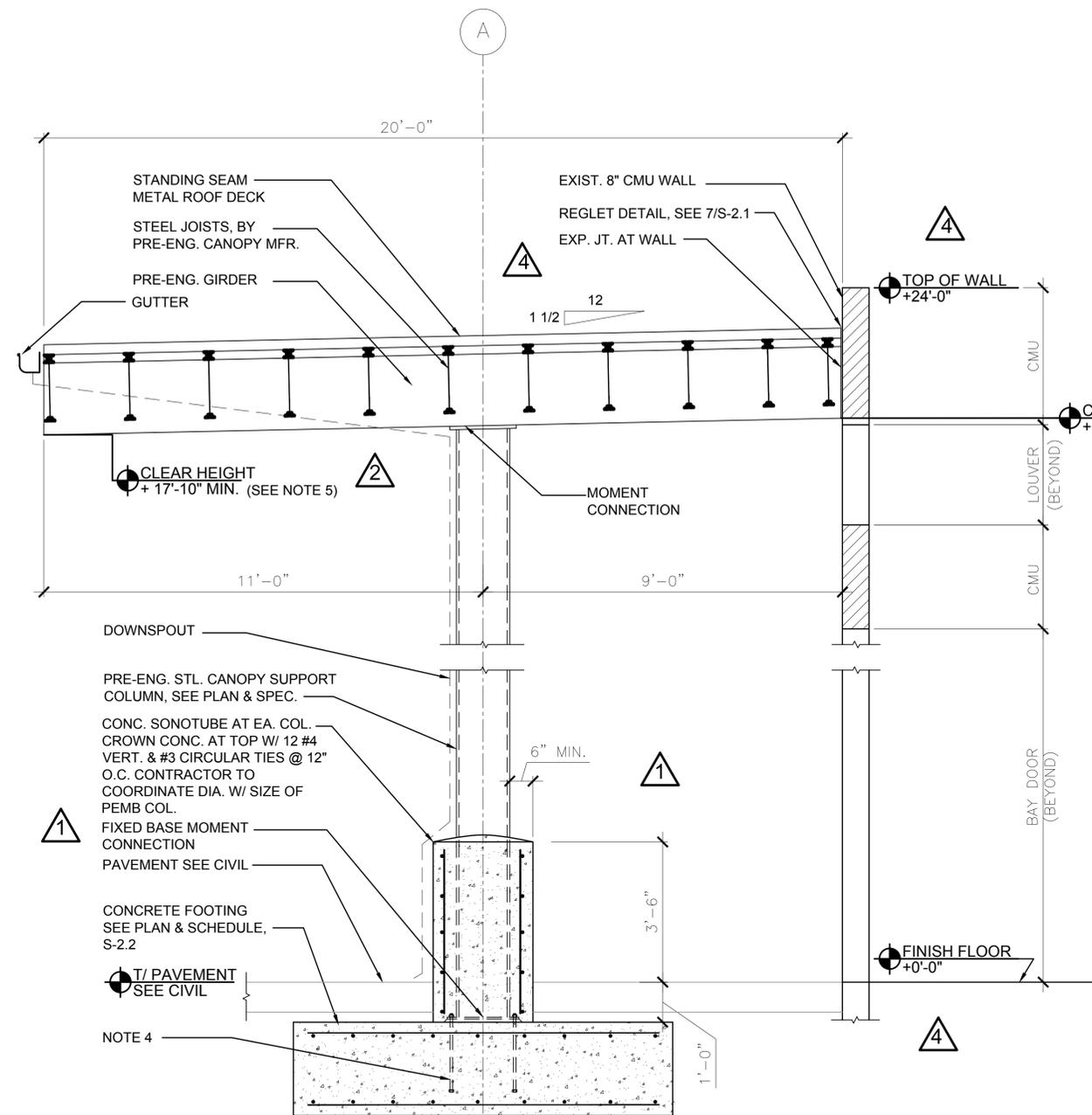
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SHEET TITLE

CANOPY
SECTIONS

SHEET NUMBER
S-2.0

BID SET

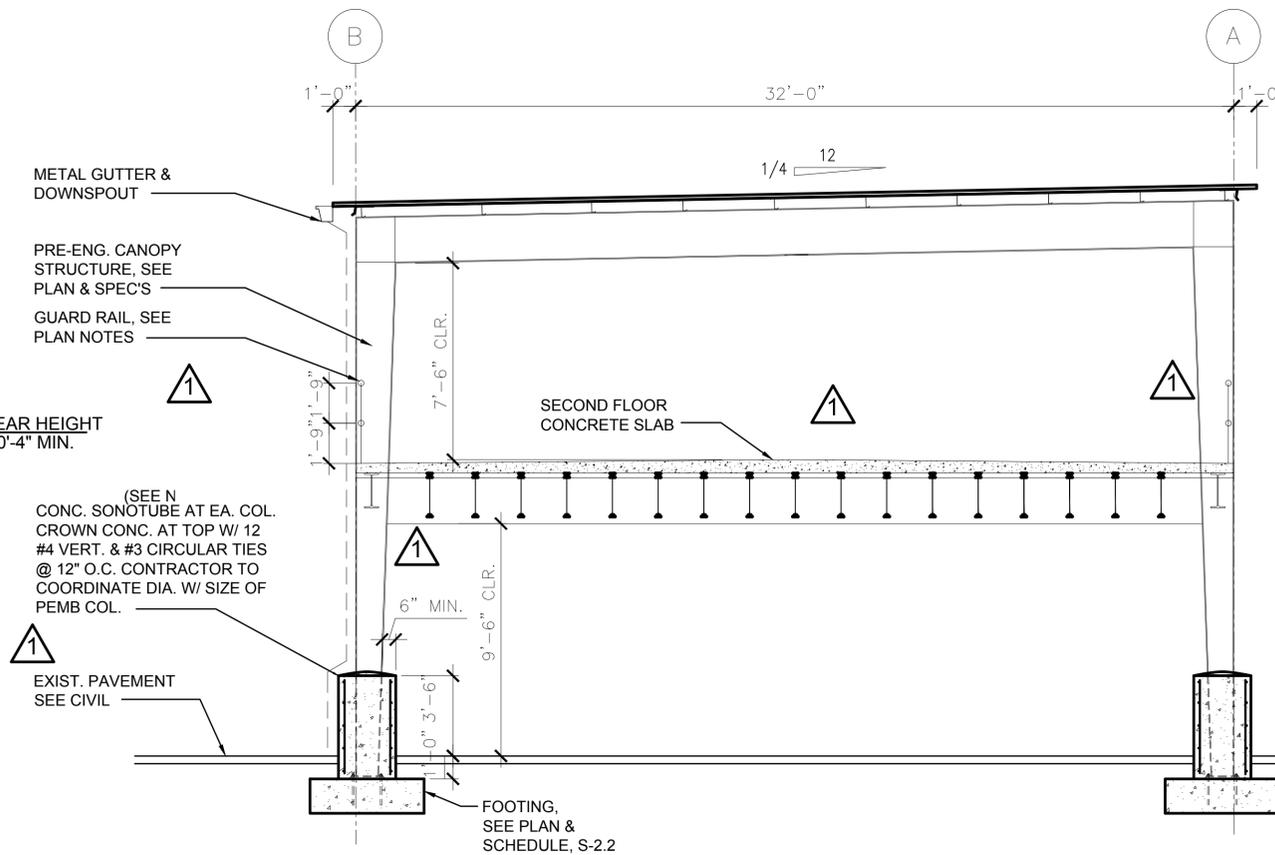


1 EAST CANOPY SECTION
S-2.0 SCALE: 1/2" = 1'-0"

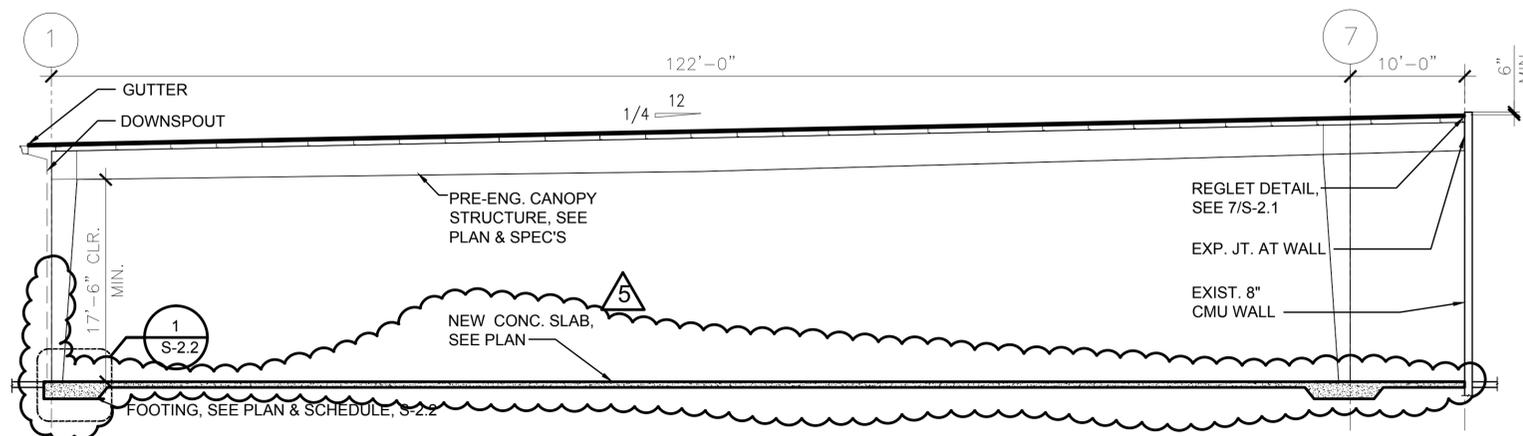
CANOPY SECTION NOTES:

- CANOPY STRUCTURE SHALL BE PER P.E.M.B. MFR. SEE PRE-ENG. CANOPY GENERAL NOTES ON SHEET S-001 AND SPECIFICATIONS.
- PRE-ENG. CANOPY SUPPORT COLUMNS SHALL BE LOCATED AS INDICATED ON PLAN.
- FINISHED FLOOR ELEVATION PER CIVIL DWG'S.
- PEMB MFR. TO PROVIDE BASE REACTIONS & ANCHOR BOLT LAYOUT TO ENGINEER OF RECORD FOR DESIGN OF ANCHOR BOLTS.
- ALL COMPONENTS OF THE CANOPY SHALL MEET THE CLEAR HEIGHTS SHOWN. THE MAXIMUM STRUCTURAL DEPTH OF JOISTS / GIRDER IS 2'-6". FIELD VERIFY THAT CANOPY WILL NOT BLOCK ANY EXISTING WALL OPENING OR FIXTURES. FIELD VERIFY ALL ELEVATIONS.

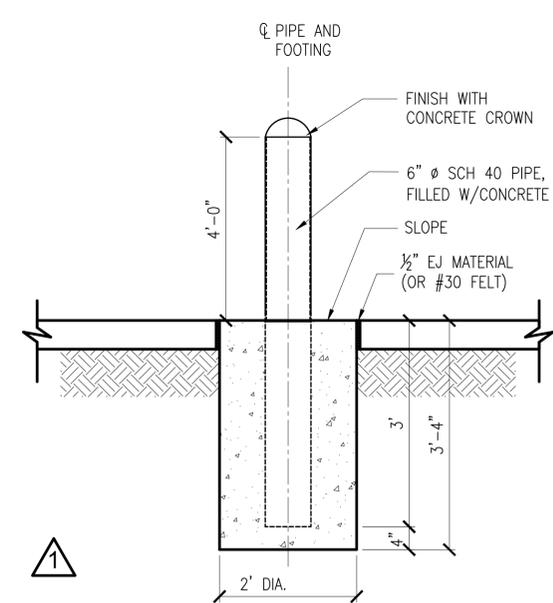
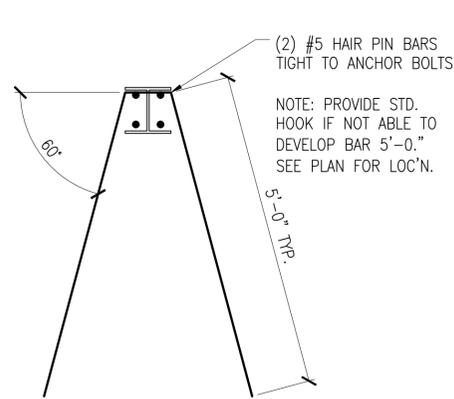
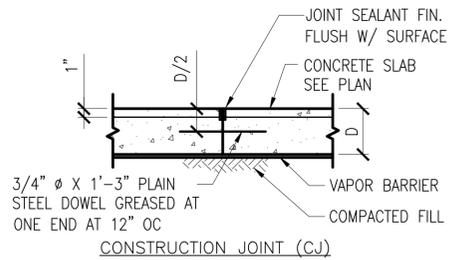
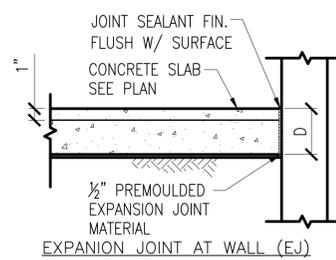
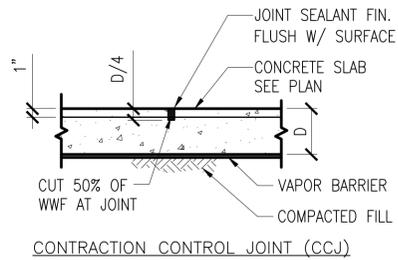
THE PEMB MANUFACTURER IS EXPECTED TO PROVIDE GIRDER SUPPORTED JOIST FRAMING AT THE EAST CANOPY, IN WHICH THE JOISTS/GIRTS ARE IN THE SAME PLANE AS THE GIRDERS, IN ORDER TO MINIMIZE OVERALL STRUCTURAL DEPTH. IT IS NOT EXPECTED THAT TRADITIONAL PEMB FRAMING, WHERE THE GIRTS RUN ACROSS THE TOP OF THE GIRDERS, WILL FIT WITHIN THE DIMENSIONAL LIMITATIONS ALONG THE EAST ELEVATION.



2 METAL BUILDING SECTION
S-2.0 SCALE: 1/4" = 1'-0"



3 NORTH CANOPY SECTION
S-2.0 SCALE: 1/8" = 1'-0"

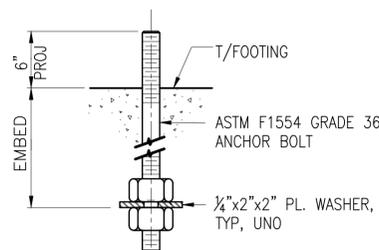


1 SLAB ON GRADE DETAIL
S-2.1 SCALE: 1/2" = 1'-0"

2 HAIRPIN REINF. DETAIL
S-2.1 SCALE: 1/2" = 1'-0"

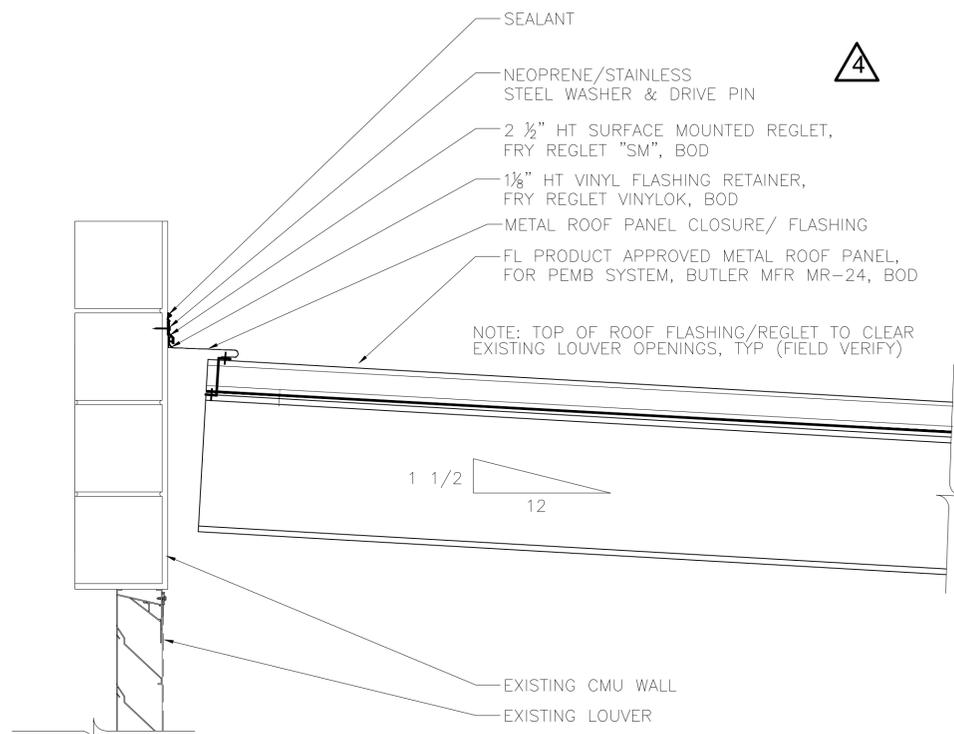
3 BOLLARD DETAIL
S-2.1 SCALE: 1/2" = 1'-0"

- NOTES:
- INDICATED BY CCJ ON PLAN.
 - JOINT SHALL BE PREFORMED OR SAWED.
 - SAW CUT TO BE MADE WITHIN 8 HOURS OF CONCRETE PLACEMENT.
 - SLAB SHALL BE CHAIRED AS REQ'D BY CODE.

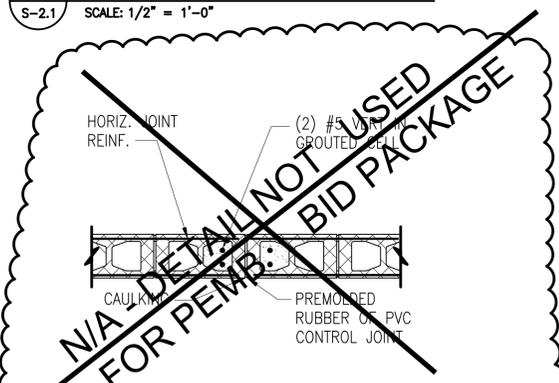


DIMENSIONS SHOWN ARE PRELIMINARY; VERIFY W/ PEMB MFR REACTIONS, MEMBER SIZES AND DIMENSIONS

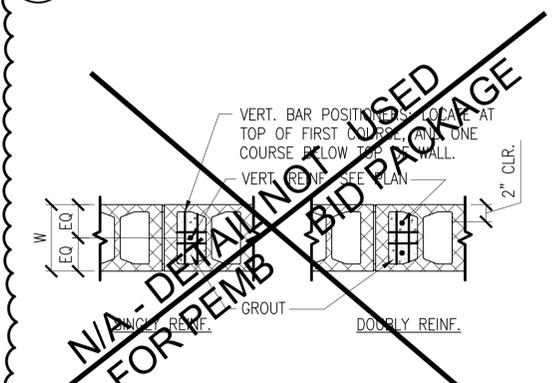
4 ANCHOR BOLT DETAIL
S-2.1 SCALE: 1/2" = 1'-0"



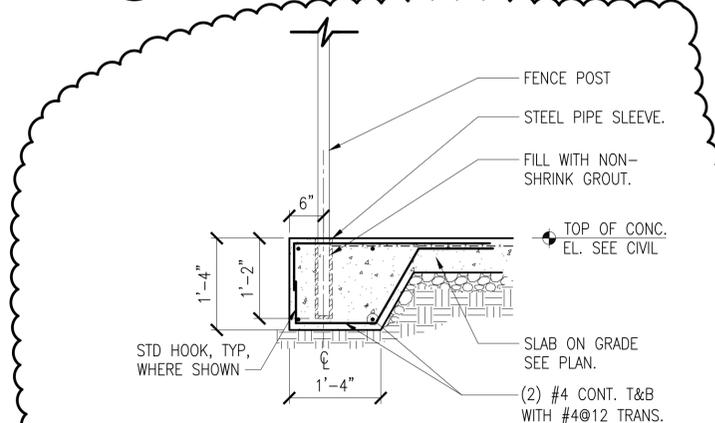
7 REGLET DETAIL
S-2.1 SCALE: 1/2" = 1'-0"



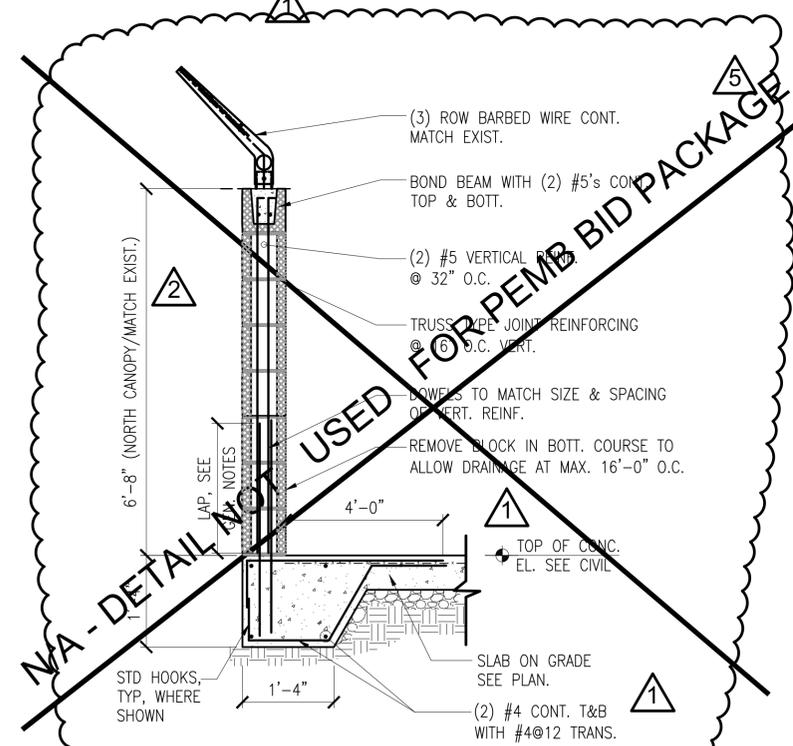
5 CMU CONTROL JOINT DETAIL
S-2.1 SCALE: 1/2" = 1'-0"



6 CMU VERT. REINF. DETAIL
S-2.1 SCALE: 1/2" = 1'-0"



9 CHAIN LINK FENCE SECTION
S-2.1 SCALE: 1/2" = 1'-0"



8 CMU WALL SECTION
S-2.1 SCALE: 1/2" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVIEW	5/14/13
2	PEMB ADD. NO. 3	7/2/13
3	CONFORMED DOCS.	3/14/14
4	OWNER CHANGES	4/4/14
5	OWNER CHANGES	6/9/14

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SHEET TITLE

STRUCTURAL
DETAILS
SHEET NUMBER
S-2.1
BID SET

ENGINEER OF RECORD
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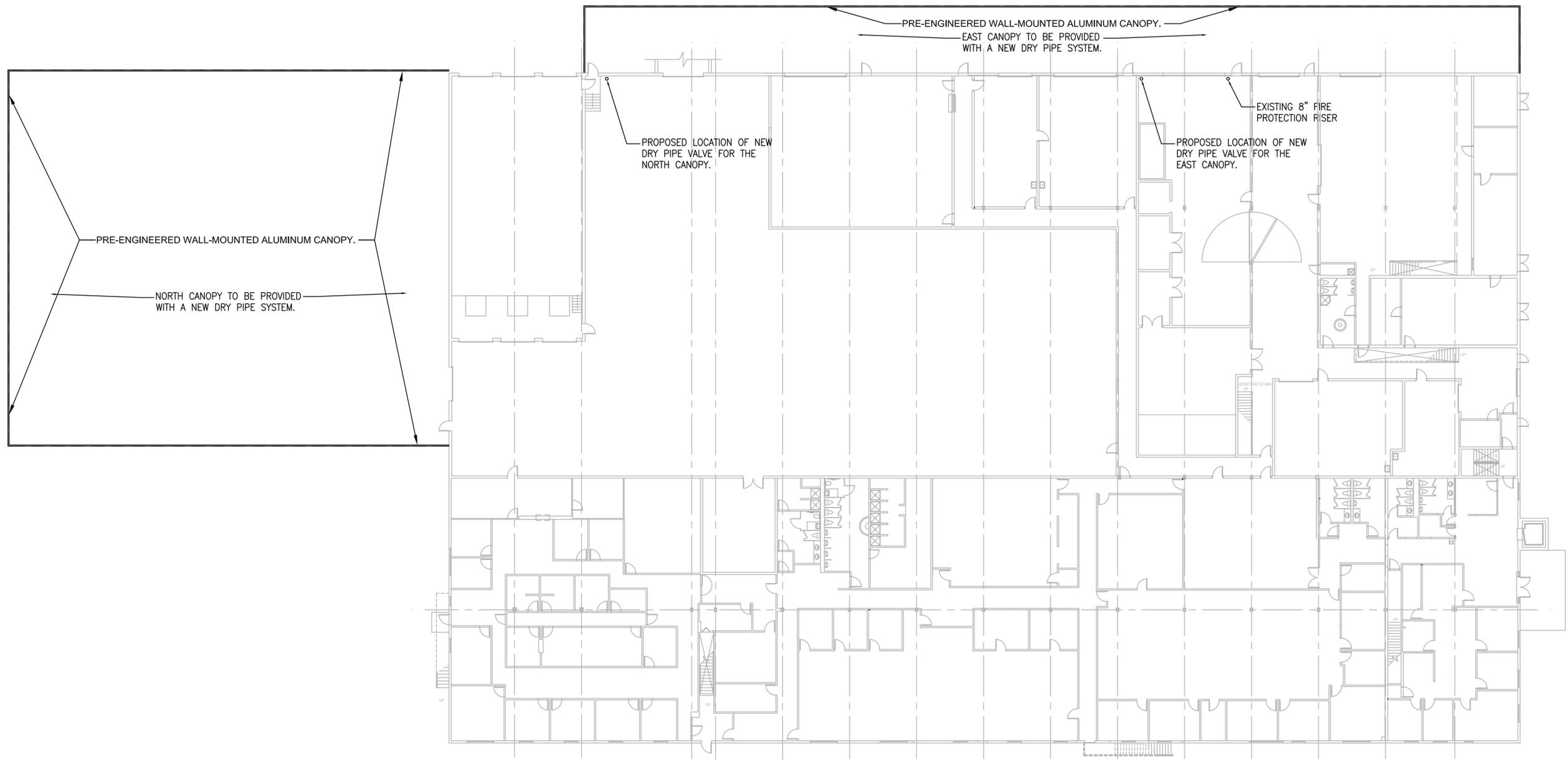
REVISIONS

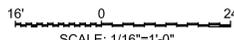
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2.	CONFORMED SET	3/14/14

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 SHEET TITLE

OVERALL GROUND
 FLOOR PLAN
 FIRE PROTECTION

SHEET NUMBER
FP-1.0
 CONFORMED
 SET



1 OVERALL GROUND FLOOR PLAN - FIRE PROTECTION
 FP-1.0 SCALE: 1/16"=1'-0"

 SCALE: 1/16"=1'-0"

GENERAL NOTES:

- ALL WORK, BOTH PRIVATE AND PUBLIC, SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND GENERAL NOTES HEREIN, AND/OR OTHERWISE REQUIRED BY THE LATEST EDITION OF APPLICABLE FEDERAL, STATE, LOCAL AND UTILITY CODES, ORDINANCES, REGULATIONS, STANDARDS AND SPECIFICATIONS. ALL MATERIALS/CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE REGULATORY STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS, THE MOST STRINGENT SHALL APPLY AS DETERMINED BY THE ENGINEER.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- PROPOSED SPOT ELEVATIONS REFER TO FINISHED GRADE.
- EXISTING CONDITIONS, BENCH MARKS, TOPOGRAPHY, ELEVATIONS, AND BOUNDARY INFORMATION HAVE BEEN PROVIDED IN A SURVEY PREPARED BY OTHERS. THE SURVEYOR OF RECORD IS LISTED ON THE COVER SHEET.
- PROTECT ANY NGVD-29 MONUMENTS LOCATED WITHIN THE LIMITS OF CONSTRUCTION. IF IN DANGER OR DAMAGED, NOTIFY THE FOLLOWING PRIOR TO CONSTRUCTION:
DIVISION OF STATE LAND
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SURVEYING AND MAPPING
3900 COMMONWEALTH BOULEVARD
TALLAHASSEE, FLORIDA 32399-3000
- THE LOCATION OF THE EXISTING UTILITIES AND DRAINAGE STRUCTURES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FOR VERIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY UTILITIES NEEDED DURING CONSTRUCTION UNLESS NOTED OTHERWISE. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITIES DEPICTED ON DRAWINGS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, IMPROVEMENTS, UTILITIES, AND PROPERTY LINES, AND CONFIRM ALL PROPOSED DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING THEIR BID, COMMENCING ANY CONSTRUCTION OR ORDERING MATERIALS.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER RELATED SITE CONSTRUCTION, AND/OR ADJACENT OFF-SITE CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT CONDITIONS OF EXISTING INFRASTRUCTURE, BOTH PUBLIC AND PRIVATE. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGE TO EXISTING INFRASTRUCTURE TO IT'S PRE-CONSTRUCTION CONDITION OR BETTER.
- NO CONSTRUCTION WILL BE ALLOWED WITHIN JURISDICTIONAL AREAS (WETLANDS) OR PRESERVATION AREAS UNLESS INDICATED ON THESE CONSTRUCTION PLANS. CONTRACTOR ASSUMES SOLE RESPONSIBILITY OF UNAUTHORIZED JURISDICTIONAL IMPACTS.
- CONTRACTOR SHALL COORDINATE WITH A LOCAL UTILITY LOCATION SERVICE AND UTILITY COMPANIES TO LOCATE AND MARK UNDERGROUND UTILITIES AT LEAST 24 TO 48 HOURS PRIOR TO DIGGING.
- TREE PROTECTION SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLANS AND DETAILS.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING GRASS AND PLANTINGS ON ALL DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLANS AS SOON AS POSSIBLE TO MINIMIZE EROSION, IF NOT SPECIFICALLY ADDRESSED IN THE PLANS, ALL DISTURBED AREAS SHALL BE STABILIZED WITH AN 85% UNIFORM GRASS COVERAGE.
- THE CONTRACTOR'S BID SHALL INCLUDE EROSION CONTROL MEASURES AND MONITORING AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR LAND DEVELOPMENT, AND AS SPECIFIED AND DETAILED IN THE EROSION CONTROL PLAN AND DETAILS.
- F.D.O.T. STANDARDS AND SPECIFICATIONS ARE REFERENCED HEREIN, REFER TO THE F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
- ALL TRAFFIC SIGNS AND MARKINGS SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- ALL PAVEMENT MARKINGS IDENTIFIED ON PLANS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THEIR BID. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE NATURE AND EXTENT OF THE PROPOSED WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.
- SHOULD THE SURFACE OR SUBSURFACE CONDITIONS FOUND VARY FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.
- DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS ONLY.
- THE SPECIFIED LENGTHS OF GRAVITY STORM AND SANITARY SEWER PIPING ARE APPROXIMATE; THE CONTRACTOR SHALL INSTALL ADEQUATE PIPING AS REQUIRED TO MEET STRUCTURE LOCATIONS AND POND SIDE SLOPES.
- THE CONTRACTOR'S BID SHALL INCLUDE ANY AND ALL NECESSARY MEANS AND METHODS TO CONTROL SURFACE AND GROUND WATER DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SURFACE GRADING, DEWATERING TRENCHES WITH SUMP PUMPS, WELL POINTING, ETC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL AND LIKELY DEPTHS TO GROUNDWATER AND THE WATER CONTROL NECESSARY TO MEET MOISTURE AND DENSITY REQUIREMENTS FOR THE NATIVE OR IMPORTED SOILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLEARING AND GRUBBING PERMITS AND ALL OTHER PERMITS NECESSARY FOR CONSTRUCTION EXCEPT FOR THE FOLLOWING: STATE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT, LOCAL CITY OR COUNTY CONSTRUCTION PLAN APPROVAL, CONSTRUCTION PLAN APPROVAL OF THE POTABLE WATER AND SANITARY SEWER SYSTEMS AND FDOT DRIVEWAY, DRAINAGE AND UTILITY CONNECTION PERMITTING.
- CONTRACTOR SHALL COMPLY WITH ALL PERMIT CONDITIONS DURING CONSTRUCTION.
- ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES, UTILITY COMPANIES, ENGINEER, AND THE OWNER.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE OWNER OR THE OWNER'S ENGINEER WHEN THE AREAS TO BE PAVED ARE BROUGHT TO SUBGRADE. THE OWNER WILL CONTACT A GEOTECHNICAL ENGINEER TO DETERMINE IF ADDITIONAL UNDERDRAIN IS REQUIRED. THE CONTRACTOR SHALL ALLOW FOR ADDITIONAL TIME IN HIS CONSTRUCTION SCHEDULE FOR CONSTRUCTION OF ADDITIONAL UNDERDRAIN IF REQUIRED.
- SHOP DRAWINGS SHALL BE REQUIRED FOR ALL SANITARY, STORM & POTABLE WATER STRUCTURES AND MATERIALS. DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER, & WHERE APPLICABLE, TO THE APPLICABLE REGULATORY AGENCY FOR APPROVAL PRIOR TO CASTING OR INSTALLATION.
- AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN-UP OPERATIONS FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL, AND EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESENT THE PROJECT SITE CLEAN AND IN GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.
- CONTRACTOR SHALL PROVIDE STORAGE FOR ALL MATERIALS AND EQUIPMENT. MATERIALS AND SUPPLIES SHALL BE PLACED IN A MANNER TO PREVENT ENDANGERMENT OR RESTRICTION OF VEHICULAR OR PEDESTRIAN TRAFFIC.
- A PRE-CONSTRUCTION MEETING IS REQUIRED AND SHALL BE SCHEDULED WITH THE ENGINEER AND LOCAL REGULATORY AGENCIES AT LEAST 48 HOURS IN ADVANCE OF SITE CONSTRUCTION.
- TRENCHING ACTIVITIES:
 - ALL TRENCHING ACTIVITIES SHALL COMPLY WITH THE TRENCH SAFETY ACT.
 - TRENCHES SHALL BE BRACED OR SHORED AS REQUIRED BY OSHA REGULATIONS.
 - WIDTH OF TRENCH SHALL BE OUTSIDE DIAMETER OF PIPE BELL PLUS TWENTY-FOUR INCHES (24") MAXIMUM.
 - ALL WORK SHALL BE IN ACCORDANCE WITH OSHA STANDARD 29CFR, SECTION 1926.650 SUBPART P.
 - THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW.
 - PROVIDE A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE IN BID DOCUMENTATION.
 - A TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF FORTY EIGHT (48) HOURS NOTICE FOR SITE INSPECTION REQUESTS, INCLUDING BUT NOT LIMITED TO WHERE REQUIRED BY FEDERAL, STATE OR LOCAL REGULATORY AGENCY HAVING JURISDICTION.

GENERAL NOTES: (CONTINUED)

- IF HISTORICAL OR ARCHEOLOGICAL ARTIFACTS, SUCH AS INDIAN CANOES, ARE DISCOVERED AT ANY TIME WITHIN THE PROJECT SITE, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE FOLLOWING:
THE OWNER AND ENGINEER OF RECORD
THE APPLICABLE WATER MANAGEMENT DISTRICT OFFICE.
THE BUREAU OF HISTORIC PRESERVATION
DIVISION OF HISTORIC RESOURCES
R.A. GRAY BUILDING
500 S. BRONOUGH ST.
TALLAHASSEE, FL 32399-0250.
- THE CONTRACTOR IS HEREBY REQUIRED TO REVIEW THE GEOTECHNICAL REPORT FOR RECOMMENDATIONS RELATED TO: PREPARATION OF THE SITE, OVER-EXCAVATION, PROOF-ROLLING, UTILITY BACKFILLING, AND PAVING REQUIREMENTS. A COPY OF THIS REPORT CAN BE ISSUED UPON REQUEST, IF ONE HAS NOT BEEN PROVIDED WITH THE PLAN SET.

AS-BUILT REQUIREMENTS:

- AS-BUILT DRAWINGS SHALL BE PREPARED IN AUTOCAD FORMAT BY A REGISTERED LAND SURVEYOR, AND SHALL BE IN CONFORMANCE WITH ALL AUTHORITIES HAVING JURISDICTION. FOUR SETS OF SIGNED AND SEALED PRINTS AND A SET OF COMPUTER CDS OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE AND RELEASE OF THE RETAINAGE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DAILY RECORD DRAWINGS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT INFORMATION TO THE ENGINEER IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
- PROVIDE LOCATIONS OF ALL BUILDINGS AND INFRASTRUCTURE. ALL STRUCTURE LOCATIONS WILL BE FROM A MINIMUM OF TWO (2) DIRECTIONS.
 - PROVIDE LOCATIONS OF ALL STORM WATER MANAGEMENT FACILITIES. AS-BUILTS WILL INCLUDE TOP OF BANK LOCATION AND ELEVATION AND BOTTOM OF SLOPE LOCATION AND ELEVATION. A STRUCTURE DETAIL OF THE CONTROL STRUCTURE SHALL BE PROVIDED WHICH WILL INCLUDE WEIR LOCATION, WIDTH AND ELEVATION, AND ORIFICE LOCATION, SIZE AND ELEVATION.
 - PROVIDE ELEVATIONS OF ALL FINISHED FLOORS, TOP AND INVERT ELEVATIONS OF ALL SANITARY AND STORM SEWER STRUCTURES AND SIZE, INVERT ELEVATIONS OF PIPES. PAVEMENT AND SIDEWALK ELEVATIONS SHALL BE PROVIDED AS REQUIRED TO ESTABLISH GRADES.
 - LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES SHALL BE PROVIDED, INCLUDING VALVES, BACKFLOW PREVENTERS, BENDS, ETC. TOP OF PIPE ELEVATIONS, SIZE AND LENGTH SHALL BE PROVIDED ON THE AS-BUILTS.
 - PROVIDE SPECIAL DETAIL DRAWINGS AT LOCATIONS WHERE INSTALLATIONS WERE NOT AS SHOWN ON THE CONTRACT DRAWINGS OR WHERE REQUIRED FOR CLARITY.
 - PROVIDE LOCATION, ELEVATION AND DESCRIPTION OF BENCHMARK(S).

DRAINAGE NOTES:

- ALL STORM DRAINAGE PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP), UNLESS OTHERWISE NOTED.
- ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT, SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMULATION WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED WITHOUT PUMPING OR FLUSHING INTO THE PONDS PRIOR TO THE RELEASE OF RETAINAGE.
- PROVIDE HAY BALES IN FRONT OF ALL DRAINAGE CURB INLETS AND PROVIDE FILTER FABRIC UNDER THE GRATE OF ALL DITCH BOTTOM INLETS AFTER INITIAL COMPLETION OF THE DRAINAGE STRUCTURE. MAINTAIN THESE MEASURES DAILY (WHICH MAY INCLUDE FULL REPLACEMENT AT THE DISCRETION OF THE OWNER) TO MINIMIZE SILT ACCUMULATION IN THE STORM DRAINAGE SYSTEM.
- TRENCHES SHALL BE CONSTRUCTED AND MONITORED IN ACCORDANCE WITH NOTES FOR TRENCHING ACTIVITIES ON THIS SHEET.

ROADWAY NOTES:

- SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AT THE CONNECTIONS TO THE EXISTING ROADWAYS TO FORM A SMOOTH TRANSITION.
- ALL CURBS SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL CHIPPED OR CRACKED PORTIONS OF CURB SHALL BE REPLACED. IN ADDITION, ANY MORTAR, CONCRETE, ASPHALT, SOIL AND OTHER DEPOSITS OR STAINS SHALL BE CLEANED TO RETURN THE CURBS TO THEIR ORIGINAL CONDITION.
- UPON COMPLETION OF FINAL ASPHALT PAVING, TOOL AND CLEAN ALL MANHOLE AND VALVE COVERS OF DIRT, DEBRIS AND ASPHALT. ALL MANHOLE AND VALVE COVERS SHALL BE CLEAN AND OPERABLE PRIOR TO OWNER'S ACCEPTANCE. ALL MANHOLES AND VALVE COVERS SHALL BE FLUSH WITH ASPHALT PAVING. CONCRETE COLLARS SHALL BE PROVIDED AT ALL VALVE AND CLEANOUT COVERS LOCATED IN ASPHALT PAVING.

UTILITIES NOTES:

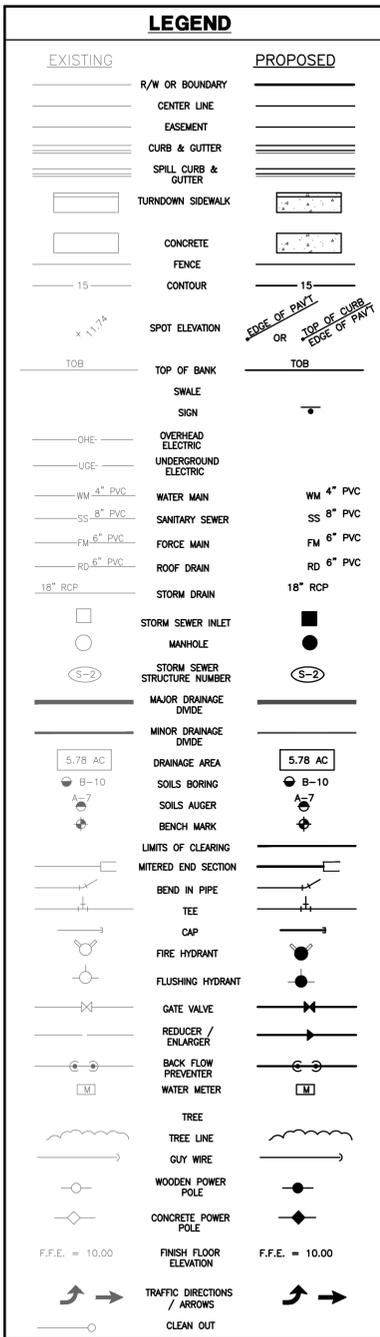
- ALL WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
- ALL NEW PIPE SHALL HAVE A MINIMUM DEPTH OF COVER OF 36 INCHES MEASURED FROM THE TOP OF THE PIPE TO THE PROPOSED FINISHED GROUND SURFACE, EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS. VERTICAL AND HORIZONTAL ALIGNMENT MAY BE ADJUSTED TO MEET ADVERSE FIELD CONDITIONS UPON APPROVAL BY THE ENGINEER AND LOCAL REGULATORY AGENCY.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO FINAL PREPARATION OF SUBGRADE FOR PAVEMENT.
- ALL BEDDING SHALL BE CLASS B, TYPE I BEDDING UNLESS INDICATED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- WHERE WATER MAIN IS LAID UNDER DITCHES, CULVERTS OR OTHER PIPELINES WITHOUT FITTINGS, THE MAXIMUM DEFLECTION AT ANY JOINT SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURE OF THE PIPE FURNISHED.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE:
 - A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE ON ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.;
 - A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER, OR A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER;
 - A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND

UTILITIES NOTES: (CONTINUED)

- A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
- WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE OR BELOW THE OTHER PIPE LINE.
- WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCEMAIN OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPE LINE.
- DISINFECTON OF THE POTABLE WATER AND FIRE MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS AND FORCE MAINS SHALL BE TESTED AT 100 PSI FOR 2 HOURS IN ACCORDANCE WITH SECTION "A" OF AWWA STANDARD C600 WITH LEAKAGE LIMITED TO THAT DETERMINED BY THE APPROPRIATE FORMULA. ALL PRESSURE TESTING SHALL BE SCHEDULED WITH THE LOCAL REGULATORY AGENCY AND ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
- ALL D.I. FITTINGS FOR WATER MAINS SHALL BE THIN CEMENT LINED. THE LINING SHALL COMPLY WITH ANSI STANDARD A21.4 (AWWA C104, LATEST "CEMENT-MORTAR LINING FOR DUCTILE IRON PIPE AND FITTINGS FOR WATER.") ALL BOLTS, NUTS, STUDS AND OTHER UNCOATED PARTS OF JOINTS FOR UNDERGROUND INSTALLATION SHALL BE COATED WITH ASPHALT OR COAL-TAR PRIOR TO BACKFILLING.
- ALL POTABLE WATER MAINS 1/2 TO 3 INCH SHALL BE SCHEDULE 40 PVC AND LISTED/MARKED AS NSF-PW. ALL OTHER POTABLE WATER MAINS 4 INCHES AND LARGER SHALL BE DR 25 PVC UNLESS OTHERWISE NOTED. ALL FIRE MAINS SHALL BE DR 18 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF FLORIDA STATUTE 386 IF ANY WATER LINE IS BROKEN OR WATER SYSTEM IS SHUT OFF DURING CONSTRUCTION. FLORIDA STATUTE 386 STATES THAT THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) OR THE LOCAL REGULATORY AGENCY DESIGNATED BY THE DEP, SHALL ISSUE A BOIL WATER / BOTTLED WATER NOTICE FOR ALL AFFECTED CUSTOMERS OF A PUBLIC WATER SUPPLY SYSTEM WHEN AN INTERRUPTION IN SERVICE OCCURS (WHICH RESULTS IN A COMPROMISE OF THE SYSTEM INTEGRITY WHEN THE HEALTH OR LIFE OF AN INDIVIDUAL OR THE HEALTH OF LIVES OF INDIVIDUALS MAY BE THREATENED OR IMPAIRED OR BY WHICH DISEASE MAY BE CAUSED) OR WHEN A HISTORY OF UNSATISFACTORY BACTERIOLOGICAL SAMPLES RESULT OR WHEN THE SYSTEM PRESSURE DROPS BELOW 20 PSI. THIS BOIL WATER / BOTTLED WATER NOTICE WILL BE LIFTED BY THE DESIGNATED REGULATORY AGENCY WHEN THE SYSTEM PRESSURE AND MICROBIOLOGICALS ARE DOCUMENTED THROUGH CERTIFIED DRINKING WATER LABORATORY ANALYSIS RESULTS. IN THE CASE WHERE THE SUPPLIER OF WATER ISSUES THE BOIL WATER / BOTTLED WATER NOTICE, THE LOCAL HEALTH DEPARTMENT SHALL BE NOTIFIED AS SOON AS POSSIBLE AND PREFERABLY IN ADVANCE OF THE EVENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY BOTTLED WATER TO INDIVIDUALS AND BUSINESS AFFECTED AT THE CONTRACTOR'S COST.
- MECHANICAL JOINT RESTRAINTS SHALL CONFORM TO AWWA STANDARD C509.
- MECHANICAL JOINT RETAINER GLANDS SHALL BE INSTALLED AT ALL BENDS, TEES AND VALVES. SEE WATER AND SEWER TYPICAL DETAILS SHEETS FOR RETAINER GLANDS AND RESTRAINT REQUIREMENTS. NO THRUST BLOCKING SHALL BE USED.
- IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH INTENDED FOR A PROPOSED PLASTIC WATER MAIN, THE CONTRACTOR SHALL STOP WORK AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS POLYCARBON SHALL BE USED IN THE CONTAMINATED AREA; THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL.
- ALL BACKFLOW PREVENTERS SHALL BE LOCATED ADJACENT TO RIGHT-OF-WAY ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED BY THE LOCAL REGULATORY AGENCY AND THE ENGINEER.
- AT THE TIME OF OR PRIOR TO FINAL APPROVAL, A DETECTOR CHECK AFFIDAVIT SHALL BE PROVIDED TO THE LOCAL REGULATORY AGENCY AND THE ENGINEER.
- AT ALL UTILITY CROSSINGS REGARDLESS OF VERTICAL SEPARATION ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE LINE SO THE WATER MAIN JOINTS ARE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE OR PIPES SHALL BE ARRANGED SO ALL WATER MAIN JOINTS ARE AT LEAST:
 - THREE (3) FEET FROM JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPE LINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 FAC.
 - SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAINS OR PIPE LINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-610 FAC.

UTILITIES NOTES: (CONTINUED)

- A 4 INCH PUMP-OUT MEETING LOCAL REGULATORY STANDARDS SHALL BE PROVIDED ON ALL FORCE MAINS LOCATED ADJACENT TO RIGHT-OF-WAYS ON PRIVATE PROPERTY. PUMP-OUT MUST BE ACCESSIBLE BY LOCAL UTILITY FORCES FROM ADJACENT PUBLIC STREET OR RIGHT-OF-WAY.
- CONTRACTOR SHALL GROUT FLOW CHANNELS IN ALL SANITARY SEWER MANHOLES.



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FL.Cert.Nos. AAC001886 - EB0005620 - LCC000210



ORANGE COUNTY UTILITIES
OPERATIONS CENTER
8100 PRESIDENTS DRIVE
ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013
REVIEWED BY: M. COFFEY, P.E.
DRAWN BY: D. STALEY
DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
107-0745-000

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SHEET TITLE

GENERAL NOTES
& LEGEND

SHEET NUMBER
GN-001



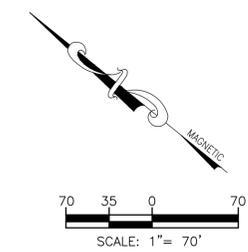
SITE DATA TABLE	
PROJECT DATA	
OWNER:	ORANGE COUNTY GOVERNMENT 201 S. ROSALIND AVENUE ORLANDO, FLORIDA 32802 PHONE: (407) 836-0032 CONTACT: WILLIAM M. HICKS
AGENT:	REYNOLDS, SMITH & HILLS, INC. 10748 DEERWOOD PARK BOULEVARD SOUTH JACKSONVILLE, FLORIDA 32256 PHONE (904) 256-2500 CONTACT: MICHAEL A. COFFEY, P.E., LEED AP
PROJECT NAME:	ORANGE COUNTY UTILITIES OPERATIONS CENTER 8100 PRESIDENT'S DRIVE ORLANDO, FL.
PARCEL NUMBER:	33-23-29-7268-00-102
USE:	OFFICE/WAREHOUSE
NUMBER OF STORIES:	2 STORY
HEIGHT:	VARIES (MAX. HT. 25')
BUILDING SQUARE FOOTAGE:	90,640
TYPE OF CONSTRUCTION:	
NUMBER OF EMPLOYEES:	177

GENERAL NOTES:

- REFER TO SHEET GN-001 FOR GENERAL NOTES & LEGEND.
- ALL RADI SHALL BE 5' UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- CONTRACTOR SHALL HAVE EROSION CONTROL DEVICES IN PLACE PRIOR COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL EROSION CONTROL DEVICES ARE MAINTAINED IN PROPER OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT HANDICAP PARKING SPACES DO NOT EXCEED 2% SLOPE IN ANY DIRECTION AND SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION FOR ADA REQUIREMENTS. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE IN THE DIRECTION OF TRAVEL WITH A MAXIMUM 2% CROSS SLOPE.
- ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- THIS PROJECT WILL REQUIRE CONTRACTOR TO COMPLETE WORK IN PHASES DUE TO THE NEED TO KEEP THE SITE OPERATIONAL DURING CONSTRUCTION. THE FOLLOWING FOUR (4) PHASES ARE STATED BY THE OWNER:
 - EXPANSION OF EXISTING RETENTION POND ON NORTH END OF SITE.
 - DEVELOPMENT OF NEW PAVEMENT AREA ON NORTH END OF SITE, NORTH OF EXISTING BUILDING.
 - DEVELOPMENT OF NEW PAVEMENT AREA ON WEST SIDE OF EXISTING BUILDING.
 - DEVELOPMENT OF EXISTING PAVEMENT ON SOUTH END OF SITE, INCLUDING SOUTH ENTRANCE DRIVE.

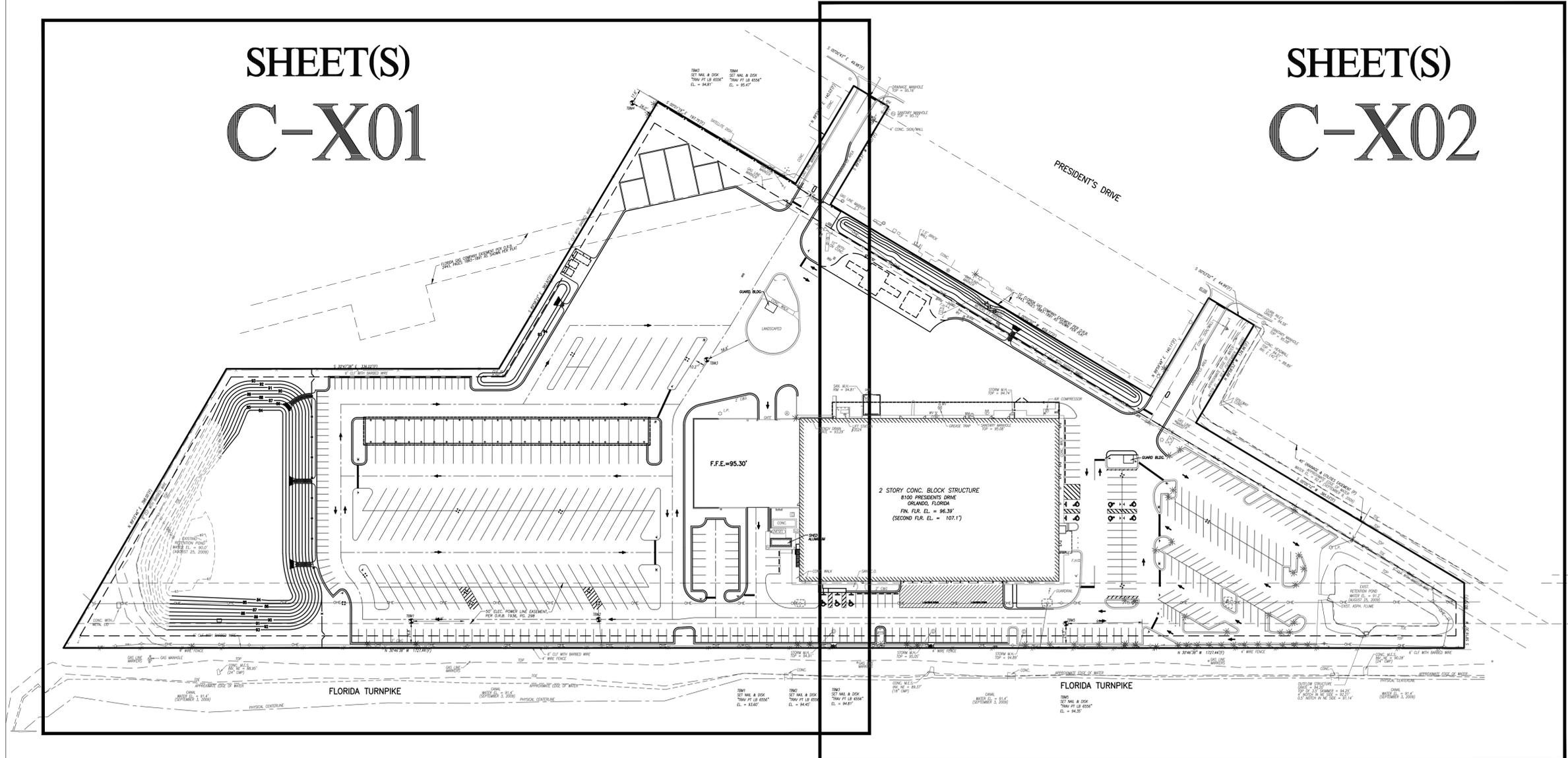
6B. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE SCHEDULES OF ITS OWN AND ITS SUBCONTRACTOR'S SCHEDULES AS WELL AS CONSTRUCTION EFFORTS UNDER SEPARATE CONTRACT AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. COORDINATION WILL BE REQUIRED FOR CONCURRENT PROJECTS/PERMITS UNDER SEPARATE CONTRACT INCLUDING, BUT NOT LIMITED TO:

- PRE ENGINEERED METAL BUILDING (PEMB) PACKAGE, PERMIT B13901132—TWO PEMB STRUCTURES ATTACHED TO THE EXISTING BUILDING, LOCATED ON THE NORTH AND EAST ELEVATIONS, AS WELL AS ONE FREE-STANDING PEMB STRUCTURE TO BE LOCATED IN THE NORTH PARKING LOT.
- INTERIOR RENOVATION PACKAGE—INTERIOR RENOVATION OF EXISTING BUILDING, INCLUDING THE ADDITION OF NEW OVERHEAD ROLLING DOORS ON THE EAST AND WEST ELEVATIONS.



**SHEET(S)
C-X01**

**SHEET(S)
C-X02**



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ORANGE COUNTY UTILITIES OPERATIONS CENTER
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ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013
REVIEWED BY: M. COFFEY, P.E.
DRAWN BY: D. STALEY
DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
107-0745-000

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SHEET TITLE

**OVERALL
SITE PLAN**

SHEET NUMBER
C-000

CONFORMED SET



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SEAL

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 FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	PEMB ADDENDUM 3	7/02/13
3	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013

REVIEWED BY: M. COFFEY, P.E.

DRAWN BY: D. STALEY

DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
 107-0745-000

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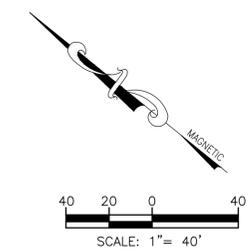
SHEET TITLE

SITE GEOMETRY &
 LAYOUT PLAN

SHEET NUMBER

C-103

CONFORMED SET



LINE #	LENGTH	DIRECTION
L1	38.92	N89° 54' 10.17"W
L2	76.62	N89° 33' 14.23"W
L3	119.97	N87° 54' 32.81"W
L4	62.52	S59° 13' 24.93"W
L5	94.03	S59° 13' 24.93"W
L6	82.30	S59° 13' 24.93"W
L7	198.13	S30° 46' 35.07"E
L8	112.92	S89° 58' 22.96"E
L9	193.27	S30° 46' 35.07"E
L10	224.94	S30° 46' 35.07"E
L11	88.32	S59° 13' 24.93"W
L12	94.03	S59° 13' 24.93"W
L13	14.04	S59° 13' 24.93"W
L14	409.18	S30° 46' 35.07"E
L15	409.18	S30° 46' 35.07"E
L16	382.25	S30° 46' 35.07"E
L17	7.75	S30° 46' 35.07"E
L18	18.78	S59° 53' 50.49"E
L19	26.74	S30° 46' 35.07"E
L20	121.01	N59° 11' 47.45"E
L21	49.96	S30° 46' 35.07"E
L22	135.62	N59° 10' 10.95"E
L23	355.85	S30° 46' 35.07"E

CURVE #	LENGTH	RADIUS	DELTA
C1	69.04	1586.98	2.49
C2	23.35	40.00	33.44
C3	37.57	50.00	43.05
C4	37.57	50.00	43.05

ADD SCOPE FOR DEMOLITION OF APPROXIMATELY 41,400 SF OF EXISTING ASPHALT PAVEMENT AND CONSTRUCTION OF APPROXIMATELY 41,400 SF OF NEW CONCRETE PAVEMENT AT LOCATION IMMEDIATELY EAST OF THE EXISTING BUILDING. SEE SHEET C-105 FOR PAVEMENT DETAILS.

NOTE: ALL OTHER CIVIL WORK BID SEPARATELY; SEE PERMIT B13900566.

SITE DATA TABLE	
PROJECT DATA	
OWNER:	ORANGE COUNTY GOVERNMENT 201 S. ROSALIND AVENUE ORLANDO, FLORIDA 32802 PHONE: (407) 836-0032 CONTACT: WILLIAM M. HICKS
AGENT:	REYNOLDS, SMITH & HILLS, INC. 10748 DEERWOOD PARK BOULEVARD SOUTH JACKSONVILLE, FLORIDA 32256 PHONE: (904) 256-2500 CONTACT: MICHAEL A. COFFEY, PhD, P.E.
PROJECT NAME:	ORANGE COUNTY UTILITIES OPERATIONS CENTER 8100 PRESIDENT'S DRIVE ORLANDO, FL.
PARCEL NUMBER:	33-23-29-7268-00-102
USE:	OFFICE/WAREHOUSE
NUMBER OF STORIES:	2 STORY
HEIGHT:	VARIABLE (MAX. HT. 25')
EXISTING BUILDING SQUARE FOOTAGE:	79,696
PROPOSED BUILDING SQUARE FOOTAGE:	10,499
TYPE OF CONSTRUCTION:	IIB
NUMBER OF EMPLOYEES:	177

PRE-DEVELOPMENT LOT DATA:		
ITEM	S.F. (AC.)	PERCENT (%)
TOTAL LOT AREA	639,896 (14.69)	100
BUILDING AREA (FOOTPRINT)	63,162 (1.45)	10
TOTAL PERVIOUS AREA	256,133 (5.88)	40
TOTAL IMPERVIOUS AREA **	360,241 (8.27)	56
TOTAL POND AREA	23,522 (0.54)	4

POST-DEVELOPMENT LOT DATA:		
ITEM	S.F. (AC.)	PERCENT (%)
TOTAL LOT AREA	639,896 (14.69)	100
BUILDING AREA (FOOTPRINT)	77,536 (1.78)	12
TOTAL PERVIOUS AREA	145,491 (3.34)	23
TOTAL IMPERVIOUS AREA **	446,925 (10.26)	70
TOTAL POND AREA	47,480 (1.09)	7

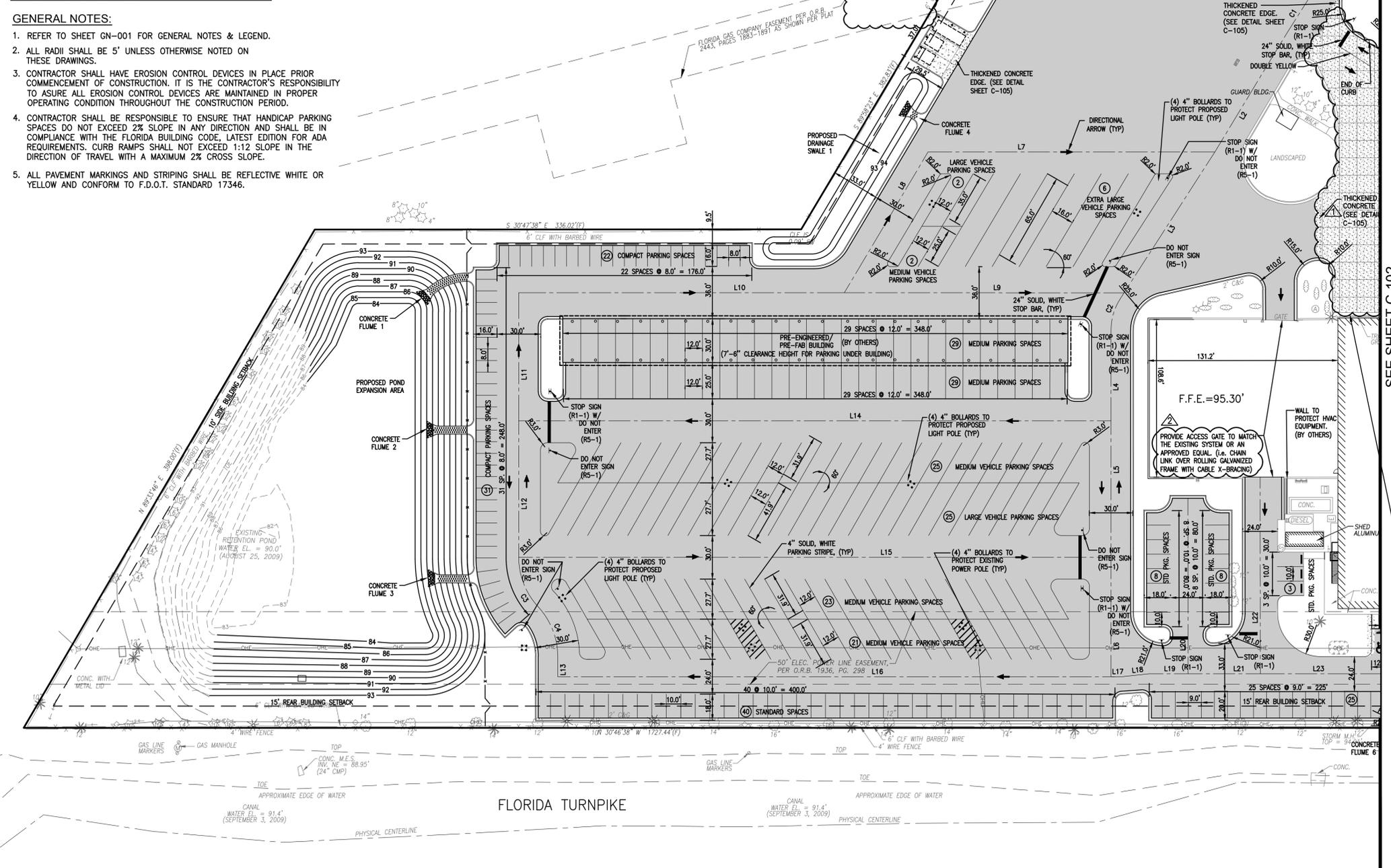
** INCLUDES BUILDING AREA

ZONING: I-2 / I-3		
SETBACKS	BUILDING	BUILDING HEIGHT
FRONT	25'	50' MAX
REAR	15'	
SIDE	10'	

UTILITIES:	
USE	PROVIDER
ELECTRIC	PROGRESS ENERGY
WATER	OCUD
GAS	TECO
TELEPHONE	AT&T

PAVEMENT LEGEND:

- INDICATES AREAS TO RECEIVE COMPACTED SUBGRADE AND REINFORCED CONCRETE PAVEMENT. (SEE TYPICAL 6" CONCRETE PAVEMENT SECTION, SHEET C-105)
- INDICATES AREAS TO RECEIVE COMPACTED SUBGRADE, NEW BASE AND HEAVY DUTY ASPHALT PAVEMENT. (SEE HEAVY DUTY ASPHALT PAVEMENT SECTION, SHEET C-105)
- INDICATES PAVEMENT AREAS TO BE MILLED AND OVERLAYED WITH TYPICAL ASPHALT. (SEE TYPICAL ASPHALT OVERLAY SECTION, SHEET C-105)



SEE SHEET C-102



Reynolds, Smith and Hills, Inc.
 1000 LEGION PLACE, SUITE 800
 ORLANDO, FL 32801
 407-893-5800 FAX 407-648-2128
 www.rsandh.com
 FL.Cert.Nos. AAC001886 - EB0005620 - LCC000210



ORANGE COUNTY UTILITIES OPERATIONS CENTER
 8100 PRESIDENTS DRIVE
 ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
 FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013
 REVIEWED BY: M. COFFEY, P.E.
 DRAWN BY: D. STALEY
 DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
 107-0745-000

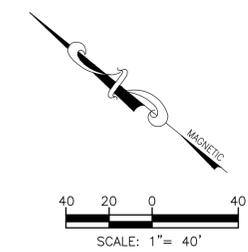
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SHEET TITLE

SITE GEOMETRY & LAYOUT PLAN

SHEET NUMBER
C-104

CONFORMED SET



GENERAL NOTES:

1. REFER TO SHEET GN-001 FOR GENERAL NOTES & LEGEND.
2. ALL RADI SHALL BE 5' UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
3. CONTRACTOR SHALL HAVE EROSION CONTROL DEVICES IN PLACE PRIOR COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASURE ALL EROSION CONTROL DEVICES ARE MAINTAINED IN PROPER OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
4. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT HANDICAP PARKING SPACES DO NOT EXCEED 2% SLOPE IN ANY DIRECTION AND SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION FOR ADA REQUIREMENTS. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE IN THE DIRECTION OF TRAVEL WITH A MAXIMUM 2% CROSS SLOPE.
5. ALL PAVEMENT MARKINGS AND STRIPING SHALL BE REFLECTIVE WHITE OR YELLOW AND CONFORM TO F.D.O.T. STANDARD 17346.

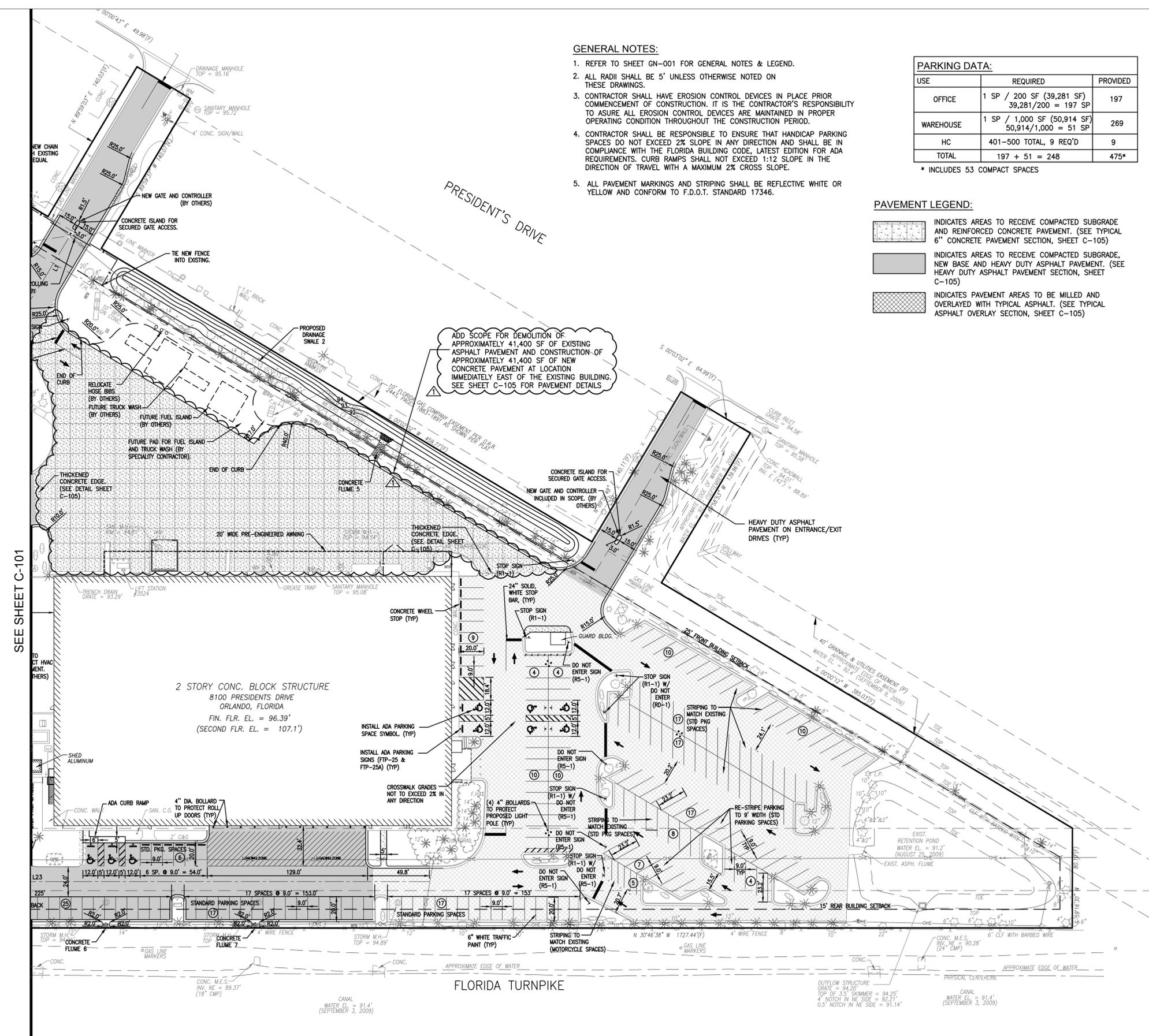
PARKING DATA:

USE	REQUIRED	PROVIDED
OFFICE	1 SP / 200 SF (39,281 SF) 39,281/200 = 197 SP	197
WAREHOUSE	1 SP / 1,000 SF (50,914 SF) 50,914/1,000 = 51 SP	269
HC	401-500 TOTAL, 9 REQ'D	9
TOTAL	197 + 51 = 248	475*

* INCLUDES 53 COMPACT SPACES

PAVEMENT LEGEND:

-  INDICATES AREAS TO RECEIVE COMPACTED SUBGRADE AND REINFORCED CONCRETE PAVEMENT. (SEE TYPICAL 6" CONCRETE PAVEMENT SECTION, SHEET C-105)
-  INDICATES AREAS TO RECEIVE COMPACTED SUBGRADE, NEW BASE AND HEAVY DUTY ASPHALT PAVEMENT. (SEE HEAVY DUTY ASPHALT PAVEMENT SECTION, SHEET C-105)
-  INDICATES PAVEMENT AREAS TO BE MILLED AND OVERLAYED WITH TYPICAL ASPHALT. (SEE TYPICAL ASPHALT OVERLAY SECTION, SHEET C-105)



NOTE: ALL OTHER CIVIL WORK BID SEPARATELY; SEE PERMIT B13900566.

SEE SHEET C-101



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 ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
 FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	5' FENCE PER OC COMMENTS	5/02/13
2	SITE PACKAGE ADDENDUM 1	5/16/13
3	PEMB ADDENDUM 1	6/06/13
4	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013
 REVIEWED BY: M. COFFEY, P.E.
 DRAWN BY: D. STALEY
 DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
 107-0745-000

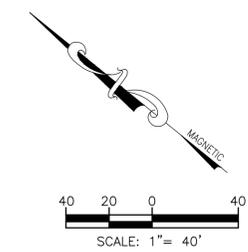
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SHEET TITLE

SITE
 GRADING &
 DRAINAGE PLAN

SHEET NUMBER
C-201

CONFORMED SET

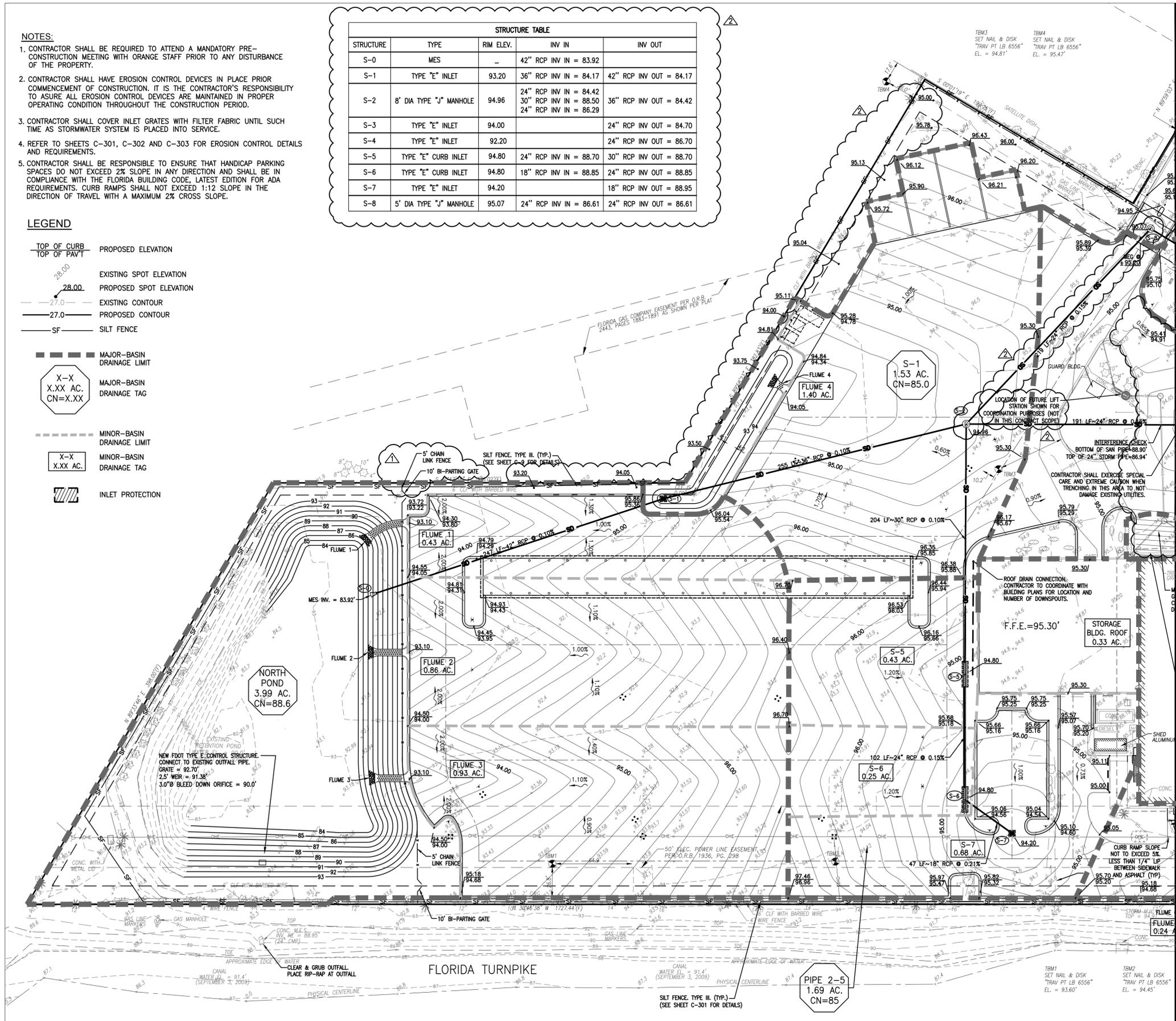


- NOTES:**
- CONTRACTOR SHALL BE REQUIRED TO ATTEND A MANDATORY PRE-CONSTRUCTION MEETING WITH ORANGE STAFF PRIOR TO ANY DISTURBANCE OF THE PROPERTY.
 - CONTRACTOR SHALL HAVE EROSION CONTROL DEVICES IN PLACE PRIOR COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL EROSION CONTROL DEVICES ARE MAINTAINED IN PROPER OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
 - CONTRACTOR SHALL COVER INLET GRATES WITH FILTER FABRIC UNTIL SUCH TIME AS STORMWATER SYSTEM IS PLACED INTO SERVICE.
 - REFER TO SHEETS C-301, C-302 AND C-303 FOR EROSION CONTROL DETAILS AND REQUIREMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT HANDICAP PARKING SPACES DO NOT EXCEED 2% SLOPE IN ANY DIRECTION AND SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION FOR ADA REQUIREMENTS. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE IN THE DIRECTION OF TRAVEL WITH A MAXIMUM 2% CROSS SLOPE.

LEGEND

- TOP OF CURB PROPOSED ELEVATION
- TOP OF PAVT
- 28.00 EXISTING SPOT ELEVATION
- 28.00 PROPOSED SPOT ELEVATION
- 27.0 EXISTING CONTOUR
- 27.0 PROPOSED CONTOUR
- SF SILT FENCE
- MAJOR-BASIN DRAINAGE LIMIT
- X-X X.XX AC. CN=X.XX MAJOR-BASIN DRAINAGE TAG
- MINOR-BASIN DRAINAGE LIMIT
- X-X X.XX AC. MINOR-BASIN DRAINAGE TAG
- INLET PROTECTION

STRUCTURE TABLE				
STRUCTURE	TYPE	RIM ELEV.	INV IN	INV OUT
S-0	MES	-	42" RCP INV IN = 83.92	
S-1	TYPE "E" INLET	93.20	36" RCP INV IN = 84.17	42" RCP INV OUT = 84.17
S-2	8' DIA TYPE "J" MANHOLE	94.96	24" RCP INV IN = 84.42 30" RCP INV IN = 88.50 24" RCP INV IN = 86.29	36" RCP INV OUT = 84.42
S-3	TYPE "E" INLET	94.00		24" RCP INV OUT = 84.70
S-4	TYPE "E" INLET	92.20		24" RCP INV OUT = 86.70
S-5	TYPE "E" CURB INLET	94.80	24" RCP INV IN = 88.70	30" RCP INV OUT = 88.70
S-6	TYPE "E" CURB INLET	94.80	18" RCP INV IN = 88.85	24" RCP INV OUT = 88.85
S-7	TYPE "E" INLET	94.20		18" RCP INV OUT = 88.95
S-8	5' DIA TYPE "J" MANHOLE	95.07	24" RCP INV IN = 86.61	24" RCP INV OUT = 86.61



SEE SHEET C-202

ADD SCOPE FOR DRAINAGE WORK ASSOCIATED WITH THE APPROXIMATELY 41,400 SF OF NEW CONCRETE PAVEMENT IMMEDIATELY EAST OF THE EXISTING BUILDING ON SHEETS C-103 AND C-104. SCOPE FOR THIS PROJECT INCLUDES DRAINAGE WORK UP TO THE AREA AND COORDINATION WITH CONTINUATION OF WORK UNDER SEPARATE CONTRACT.

NOTE: ALL OTHER CIVIL WORK BID SEPARATELY; SEE PERMIT B13900566.



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 ORLANDO, FLORIDA**

SEAL

MICHAEL A. COFFEY, P.E.
 FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	SITE PACKAGE ADDENDUM 1	5/16/13
2	PEMB ADDENDUM 1	6/06/13
3	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013

REVIEWED BY: M. COFFEY, P.E.

DRAWN BY: D. STALEY

DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
 107-0745-000

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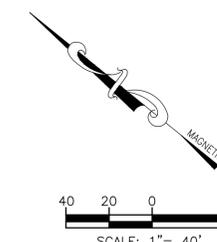
SHEET TITLE

**SITE
 GRADING &
 DRAINAGE PLAN**

SHEET NUMBER

C-202

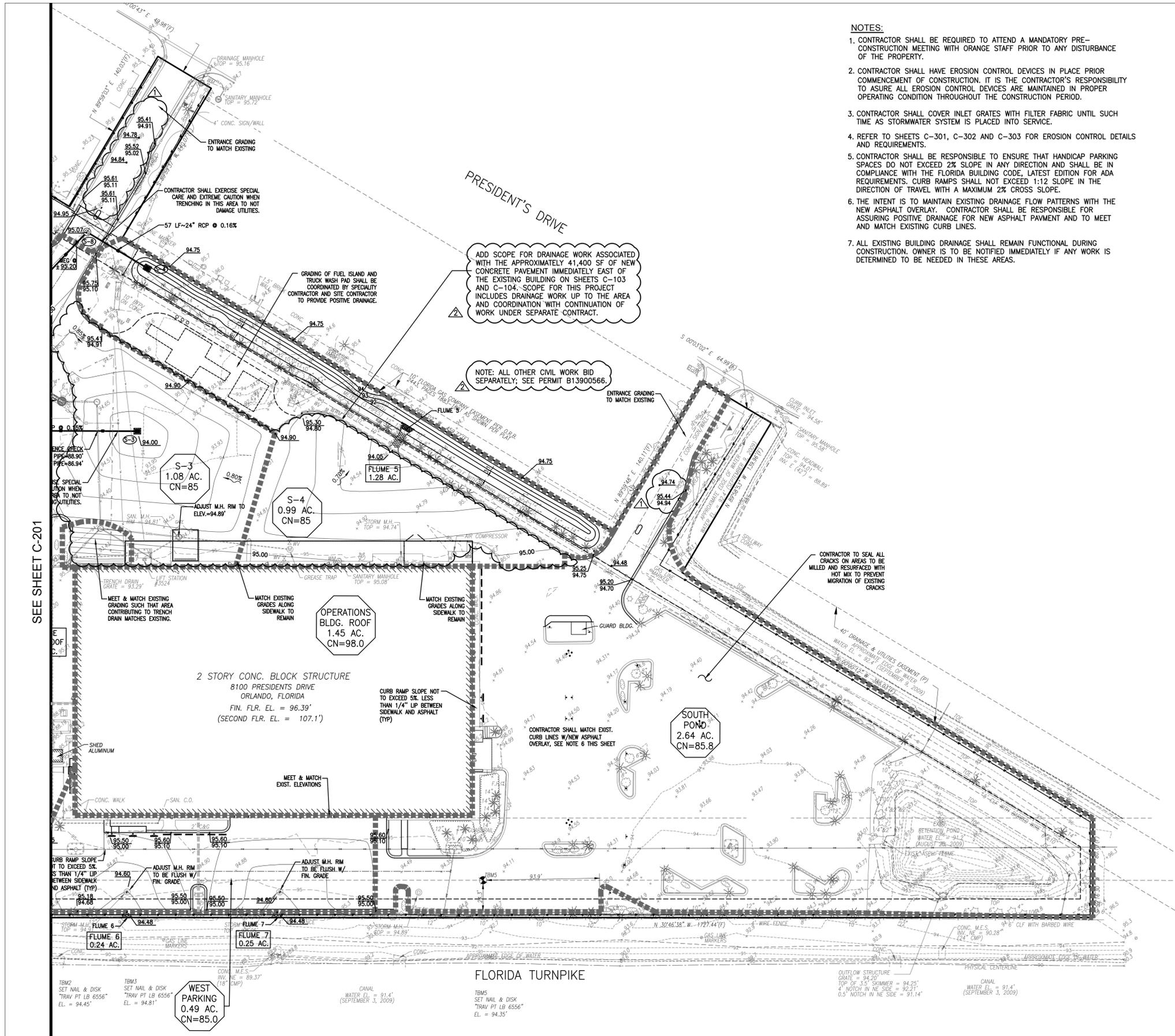
CONFORMED SET



- NOTES:**
- CONTRACTOR SHALL BE REQUIRED TO ATTEND A MANDATORY PRE-CONSTRUCTION MEETING WITH ORANGE STAFF PRIOR TO ANY DISTURBANCE OF THE PROPERTY.
 - CONTRACTOR SHALL HAVE EROSION CONTROL DEVICES IN PLACE PRIOR COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL EROSION CONTROL DEVICES ARE MAINTAINED IN PROPER OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
 - CONTRACTOR SHALL COVER INLET GRATES WITH FILTER FABRIC UNTIL SUCH TIME AS STORMWATER SYSTEM IS PLACED INTO SERVICE.
 - REFER TO SHEETS C-301, C-302 AND C-303 FOR EROSION CONTROL DETAILS AND REQUIREMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT HANDICAP PARKING SPACES DO NOT EXCEED 2% SLOPE IN ANY DIRECTION AND SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION FOR ADA REQUIREMENTS. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE IN THE DIRECTION OF TRAVEL WITH A MAXIMUM 2% CROSS SLOPE.
 - THE INTENT IS TO MAINTAIN EXISTING DRAINAGE FLOW PATTERNS WITH THE NEW ASPHALT OVERLAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING POSITIVE DRAINAGE FOR NEW ASPHALT PAYMENT AND TO MEET AND MATCH EXISTING CURB LINES.
 - ALL EXISTING BUILDING DRAINAGE SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION. OWNER IS TO BE NOTIFIED IMMEDIATELY IF ANY WORK IS DETERMINED TO BE NEEDED IN THESE AREAS.

LEGEND

- TOP OF CURB / TOP OF PAVT: PROPOSED ELEVATION
- 28.00: EXISTING SPOT ELEVATION
- 27.00: PROPOSED SPOT ELEVATION
- 27.0 ---: EXISTING CONTOUR
- 27.0 ---: PROPOSED CONTOUR
- SF ---: SILT FENCE
- : MAJOR-BASIN DRAINAGE LIMIT
- X-X / X.XX AC. / CN=X.XX: MAJOR-BASIN DRAINAGE TAG
- : MINOR-BASIN DRAINAGE LIMIT
- X-X / X.XX AC.: MINOR-BASIN DRAINAGE TAG
- |||||: INLET PROTECTION



ADD SCOPE FOR DRAINAGE WORK ASSOCIATED WITH THE APPROXIMATELY 41,400 SF OF NEW CONCRETE PAVEMENT IMMEDIATELY EAST OF THE EXISTING BUILDING ON SHEETS C-103 AND C-104. SCOPE FOR THIS PROJECT INCLUDES DRAINAGE WORK UP TO THE AREA AND COORDINATION WITH CONTINUATION OF WORK UNDER SEPARATE CONTRACT.

NOTE: ALL OTHER CIVIL WORK BID SEPARATELY; SEE PERMIT B13900566.

CONTRACTOR TO SEAL ALL CRACKS ON AREAS TO BE MILLED AND RESURFACED WITH HOT MIX TO PREVENT MIGRATION OF EXISTING CRACKS

OPERATIONS BLDG. ROOF
 1.45 AC.
 CN=98.0

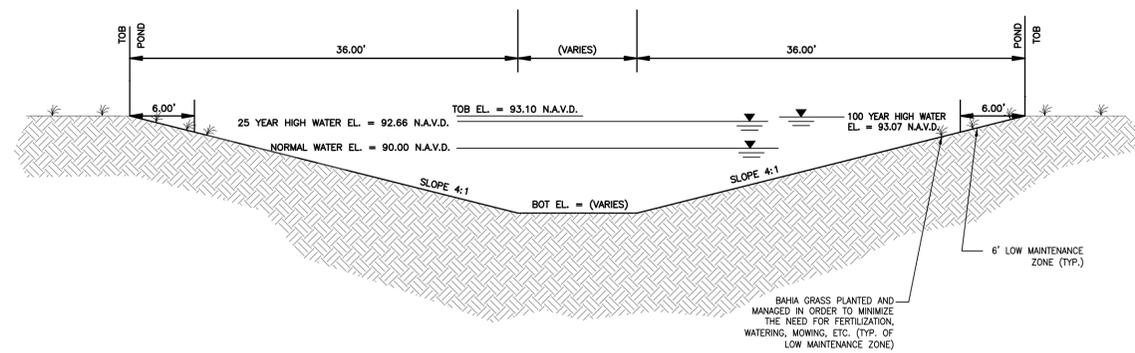
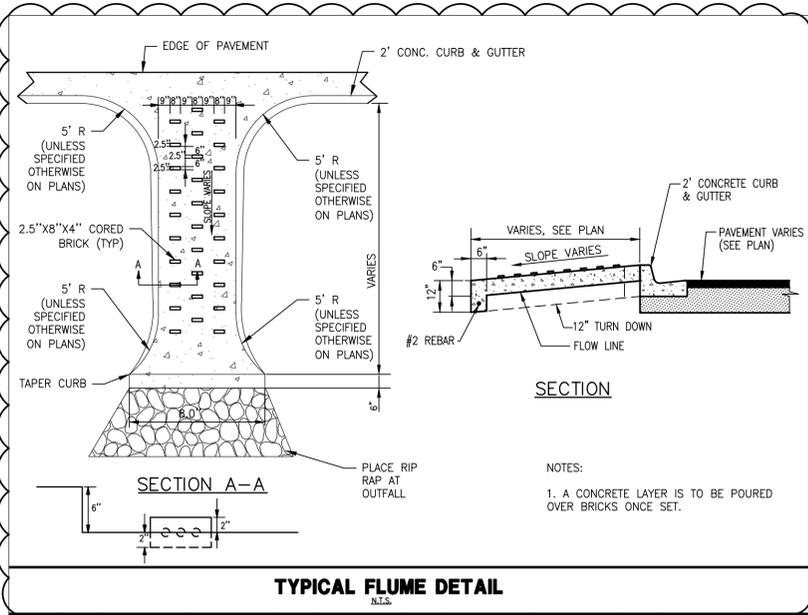
SOUTH POND
 2.64 AC.
 CN=85.8

2 STORY CONC. BLOCK STRUCTURE
 8100 PRESIDENTS DRIVE
 ORLANDO, FLORIDA
 FIN. FLR. EL. = 96.39'
 (SECOND FLR. EL. = 107.1')

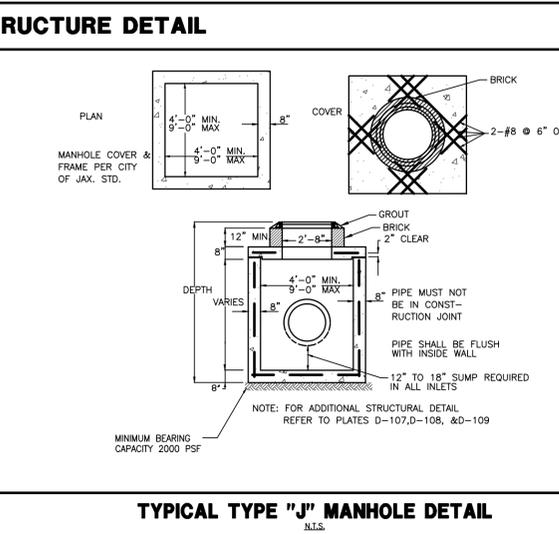
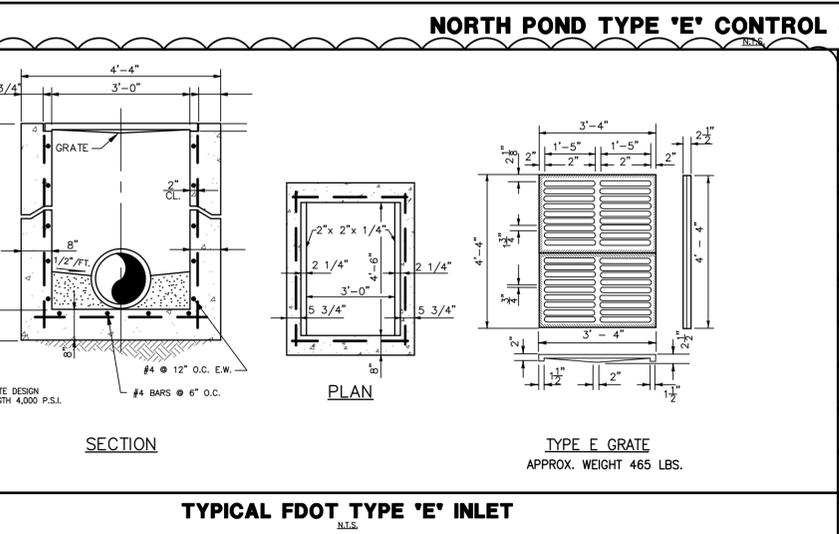
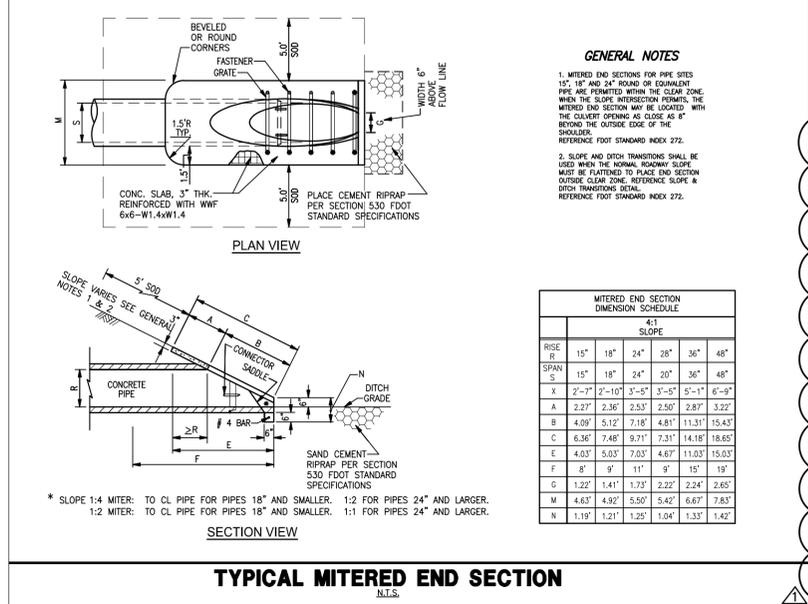
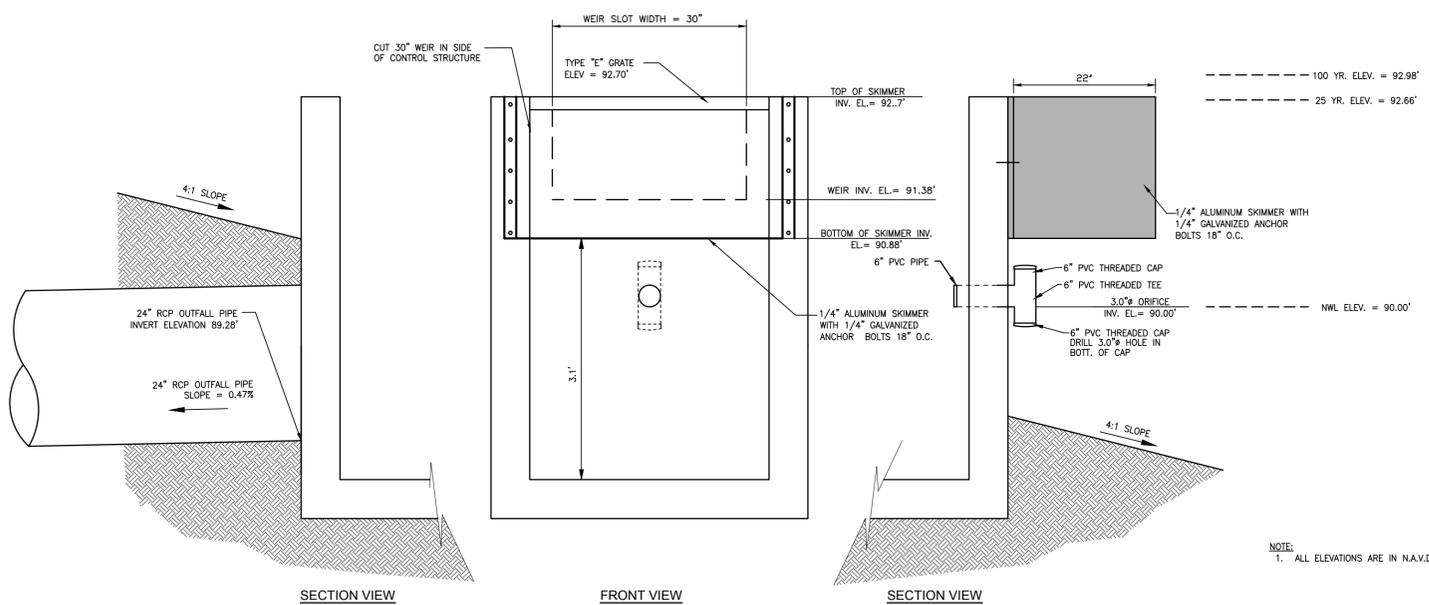
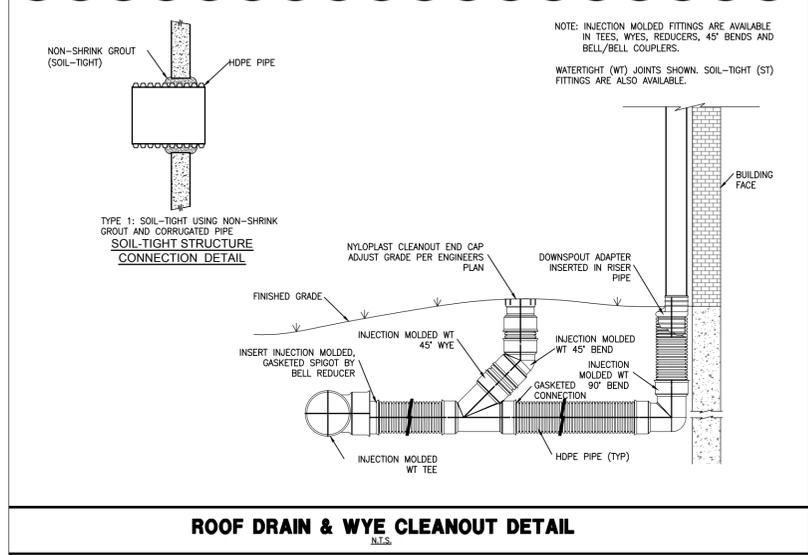
FLORIDA TURNPIKE

WEST PARKING
 0.49 AC.
 CN=85.0

SEE SHEET C-201



NOTES:
1) NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAINING ON THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER.
2) CASE SHOULD BE TAKEN TO PREVENT THE OVER-SPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.
3) ALL ELEVATIONS ARE GIVEN IN N.A.V.D.
88



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ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
△	PEMB ADDENDUM 1	6/06/13
△	CONFORMED SET	3/14/14

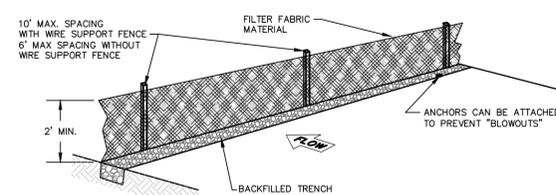
DATE ISSUED: APRIL 12, 2013
REVIEWED BY: M. COFFEY, P.E.
DRAWN BY: P. HILL
DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
107-0745-000
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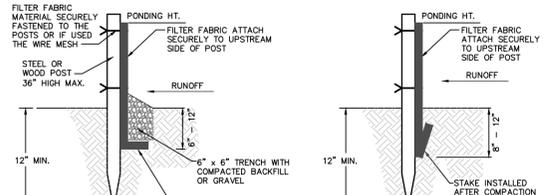
SHEET TITLE
DRAINAGE DETAILS
SHEET NUMBER
C-203

CONFORMED SET

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

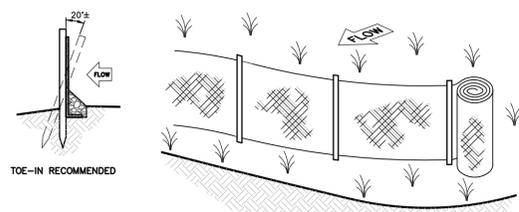


FILTER FABRIC SILT FENCE

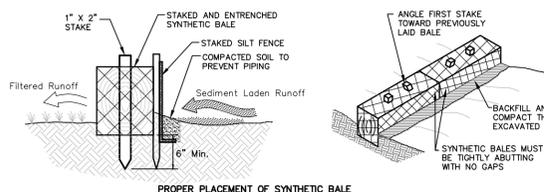


TRENCHING METHOD
TRENCH WITH NATIVE BACKFILL OR GRAVEL

ALTERNATIVE SLICING METHOD
TRENCH WITH GRAVEL

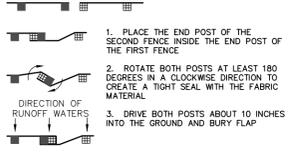


PREASSEMBLED SILT FENCE

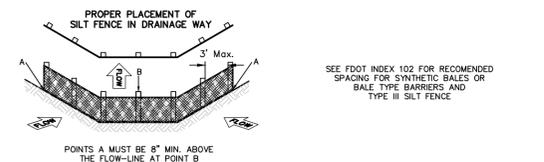


PROPER PLACEMENT OF SYNTHETIC BALE BARRIER IN DRAINAGE WAY

ATTACHING TWO SILT FENCES



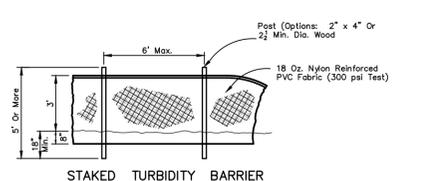
- NOTES:
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - SEE FDOT INDEX 102 FOR ADDITIONAL DETAILS FOR TYPE I, II & TYPE III BARRIERS & SILT FENCE.



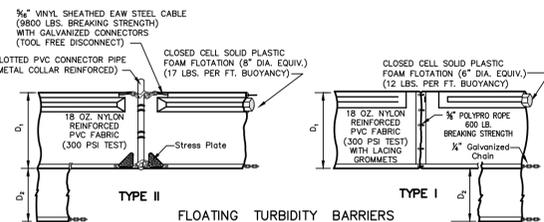
PROPER PLACEMENT OF SILT FENCE IN DRAINAGE WAY

SEE FDOT INDEX 102 FOR RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCE

TEMPORARY EROSION AND SEDIMENT CONTROL BARRIERS
SILT FENCE & SYNTHETIC BALES (N.T.S.)



STAKED TURBIDITY BARRIER

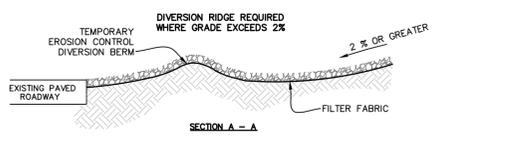


FLOATING TURBIDITY BARRIERS

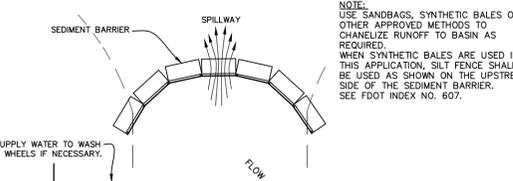
- NOTES:
- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 - NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
 - DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 - NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
 - FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. HOWEVER, PAYMENT WILL BE UNDER THE CONTRACT LUMP SUM PRICE ESTABLISHED IN THE BID PROPOSAL. FOR EROSION AND SEDIMENT CONTROL POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

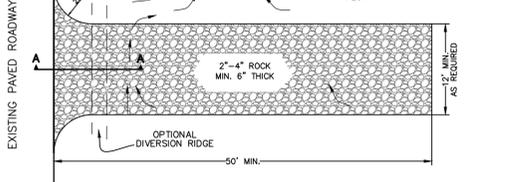
TEMPORARY TURBIDITY BARRIERS (N.T.S.)



SECTION A-A



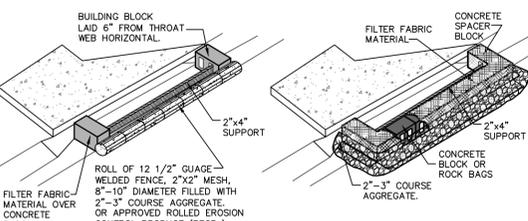
SECTION A-A



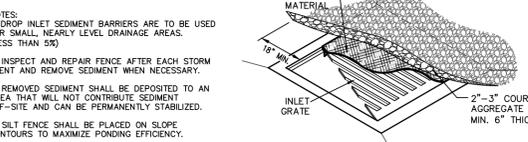
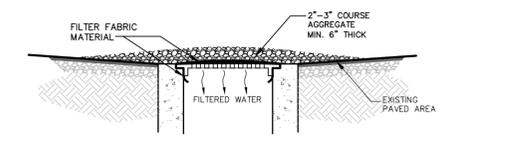
PLAN

- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 - SHALL COMPLY WITH ALL STIPULATIONS DEFINED IN FDOT INDEX NO. 106.

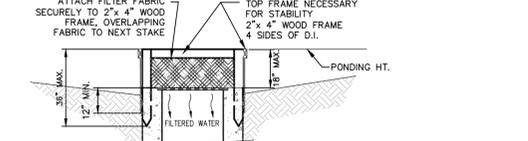
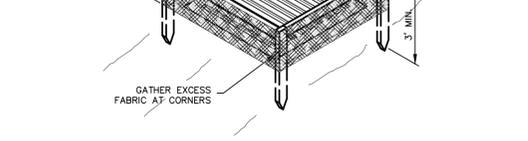
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (SOIL TRACKING PREVENTION DEVICE) FDOT INDEX 106 (N.T.S.)



TEMPORARY EROSION CONTROL
FILTER FABRIC OVER CURB INLET (N.T.S.)



POST PAVEMENT EROSION CONTROL
FILTER FABRIC OVER GRATE INLET (N.T.S.)



- NOTES:
- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
 - USE 2x4 WOOD OR EQUIVALENT METAL STAKES. (3 FT. MIN. LENGTH)
 - INSTALL 2x4 WOOD TOP FRAME TO INSURE STABILITY.
 - THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

PRE-PAVEMENT SEDIMENT BARRIER AT GRATE INLET (N.T.S.)

EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINED DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL - DESIGNER AND REVIEWER MANUAL (JUNE 2007)" FOR THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) & THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, (F.D.O.T.) AND F.D.O.T. DESIGN STANDARDS INDEX 102.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL F.D.O.T., F.D.E.P. AND WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF F.D.O.T., F.D.E.P. AND WATER MANAGEMENT DISTRICT FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

PRE-CONSTRUCTION SITE PROTECTION:

- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED, THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
- WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
- SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
- SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES, AROUND INLETS, OR ABOVE/BELow WHERE CULVERTS DISCHARGE.
- SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF VELOCITY AND SHALL BE SECURELY ANCHORED.
- ALL DEVICES INCLUDING SILT FENCE, FILTER BARRIERS, SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS, END RUNS AND UNDERCUTTING BENEATH BARRIERS.
- ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. FILTER FABRIC IN CONFORMANCE WITH F.D.O.T. INDEX 985 OR COMPARABLE SHALL BE USED. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
22. 2 INCH - 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
23. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

POST-CONSTRUCTION SITE PROTECTION:

24. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

NOTE: THE WATER MANAGEMENT DISTRICT FOR THIS PROJECT IS THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (S.F.W.M.D.).

NOTE: WHERE F.D.O.T. SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO F.D.O.T. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS MANUAL UPDATED VERSION 2008.



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ORANGE COUNTY UTILITIES
OPERATIONS CENTER
8100 PRESIDENTS DRIVE
ORLANDO, FLORIDA

SEAL

MICHAEL A. COFFEY, P.E.
FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013

REVIEWED BY: M. COFFEY, P.E.

DRAWN BY: D. STALEY

DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER
107-0745-000

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SHEET TITLE

SWPPP EROSION
CONTROL
DETAILS

SHEET NUMBER

C-301



STORM WATER POLLUTION PREVENTION PLAN

OWNER'S REQUIREMENTS
SITE DESCRIPTION
<p>PROJECT NAME AND LOCATION: ORANGE COUNTY UTILITIES OPERATIONS CENTER 8100 PRESIDENTS DRIVE ORLANDO, FLORIDA 32809</p> <p>OWNER NAME AND ADDRESS: WILLIAM (MIKE) HICKS 400 E. SOUTH STREET, SUITE 500 ORLANDO, FLORIDA 32801</p> <p>DESCRIPTION: CONVERTING THE CURRENT UNPAVED PARKING AREAS INTO PAVED PARKING AND DRIVEWAY AREAS. EXPANSION OF THE NORTH WET DETENTION POND. SITE CONSISTS OF 14.69 ACRES.</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING, EARTHWORK, PAVEMENT AND GRADING, STORM SEWER AND PREPARATION FOR FINAL PLANTING AND SEEDING.</p> <p>RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 85 2. DURING CONSTRUCTION = 85 3. POST-CONSTRUCTION = 85</p> <p>SOILS: SEE SOIL BORING REPORT FOR SOILS DATA.</p> <p>SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS. * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: 1. TOTAL AREA OF SITE = 14.69 ACRES 2. TOTAL AREA TO BE DISTURBED = 14.69 ACRES</p> <p>NAME OF RECEIVING WATERS: SHINGLE CREEK SWAMP</p> <p>1. ANTICIPATED START DATE OF CONSTRUCTION: APRIL 2013 2. ANTICIPATED END DATE OF CONSTRUCTION: OCTOBER 2013 (CONSTRUCTION DATES ARE TO BE FILLED IN PRIOR TO COMMENCEMENT OF CONSTRUCTION)</p>
CONTROLS
<p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p>STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION): A PREVIOUSLY PERMITTED STORMWATER SYSTEM. THE PROJECT WILL CONSTRUCT STORMWATER CONVEYANCE THAT WILL ULTIMATELY CONNECT TO A STORMWATER POND LOCATED ON THE NORTH SIDE OF THE SITE.</p>
TIMING OF CONTROLS/MEASURES
REFER TO "CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL/MEASURES.
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS
<p>IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED (TO BE FILLED IN PRIOR TO COMMENCEMENT OF CONSTRUCTION).</p> <p>D.E.R. DREDGE/FILL PERMIT # _____ C.O.E. DREDGE/FILL PERMIT # _____ S.J.R.W.M.D. M.S.S.W. PERMIT # _____ N.P.D.E.S PERMIT # _____</p>
POLLUTION PREVENTION PLAN CERTIFICATION
<p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____ OWNER/OPERATOR</p> <p>DATED: _____</p>

GENERAL	CONTROLS CONT'D.	OTHER CONTROLS	SPILL PREVENTION CONT'D.	MAINT./INSP. PROCEDURES CONT'D.																													
<p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p style="text-align: center;">SEQUENCE OF MAJOR ACTIVITIES:</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <table border="0"> <tr> <td>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</td> <td>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.</td> </tr> <tr> <td>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</td> <td>10. APPLY BASE TO PROJECT</td> </tr> <tr> <td>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</td> <td>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</td> </tr> <tr> <td>4. CONSTRUCT SEDIMENTATION BASIN</td> <td>12. COMPLETE FINAL PAVING</td> </tr> <tr> <td>5. CONTINUE CLEARING AND GRUBBING</td> <td>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</td> </tr> <tr> <td>6. STOCK PILE TOP SOIL IF REQUIRED ON SITE AS REQUIRED</td> <td>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</td> </tr> <tr> <td>7. PERFORM PRELIMINARY GRADING AND STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE</td> <td></td> </tr> </table>	1. INSTALL STABILIZED CONSTRUCTION ENTRANCE	9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.	2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED	10. APPLY BASE TO PROJECT	3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN	11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING	4. CONSTRUCT SEDIMENTATION BASIN	12. COMPLETE FINAL PAVING	5. 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INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 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 WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 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 SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDED OR SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSING HAS NOT ATTAINED A MINIMUM OF 85 PERCENT UNIFORM GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. 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.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOODED.</p> <p style="text-align: center;">STRUCTURAL PRACTICES</p> <p>1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.</p> <p>2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (D < 0.5 FPS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEMS TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</p> <p>4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.</p> <p>NOTE: THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.</p>	<p>WASTE DISPOSAL ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULLED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.</p> <p style="text-align: center;">INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="0"> <tr> <td><input type="checkbox"/> Concrete</td> <td><input type="checkbox"/> Fertilizers</td> <td><input type="checkbox"/> Wood</td> </tr> <tr> <td><input type="checkbox"/> Asphalt</td> <td><input type="checkbox"/> Petroleum Based Products</td> <td><input type="checkbox"/> Masonry Blocks</td> </tr> <tr> <td><input type="checkbox"/> Tar</td> <td><input type="checkbox"/> Cleaning Solvents</td> <td><input type="checkbox"/> Roofing Materials</td> </tr> <tr> <td><input type="checkbox"/> Detergents</td> <td><input type="checkbox"/> Paints</td> <td><input type="checkbox"/> Metal Studs</td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> </tr> </table> <p style="text-align: center;">SPILL PREVENTION</p> <p>MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:</p> <p>GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT:</p> <ul style="list-style-type: none"> AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL. <p>HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. 	<input type="checkbox"/> Concrete	<input type="checkbox"/> Fertilizers	<input type="checkbox"/> Wood	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Petroleum Based Products	<input type="checkbox"/> Masonry Blocks	<input type="checkbox"/> Tar	<input type="checkbox"/> Cleaning Solvents	<input type="checkbox"/> Roofing Materials	<input type="checkbox"/> Detergents	<input type="checkbox"/> Paints	<input type="checkbox"/> Metal Studs	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS WASHING OF VEHICLES SHOULD BE CONDUCTED USING PRACTICES THAT CLEARLY PREVENT DIRECT DISCHARGES OF WASTEWATER AND HAZARDOUS WASTES TO SURFACE AND GROUND WATERS. A DESIGNATED AREA MUST BE CREATED SPECIFICALLY FOR WASHING VEHICLES THAT WILL BE LAID WITH FILTER FABRIC, CRUSHED STONE (DOT GRAVEL #2 AND UP) AND COVERED WITH LINED BERM.</p> <p style="text-align: center;">SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>	<p>* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.</p> <p>* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>* 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 STORM WATER 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.</p> <p>* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p> <p style="text-align: center;">NON-STORM WATER DISCHARGES</p> <p>IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:</p> <ul style="list-style-type: none"> WATER FROM WATER LINE FLUSHING PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). <p>ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.</p> <p style="text-align: center;">CONTRACTOR'S CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p>
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE	9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.																																
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED	10. APPLY BASE TO PROJECT																																
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN	11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING																																
4. CONSTRUCT SEDIMENTATION BASIN	12. COMPLETE FINAL PAVING																																
5. CONTINUE CLEARING AND GRUBBING	13. REMOVE ACCUMULATED SEDIMENT FROM BASINS																																
6. STOCK PILE TOP SOIL IF REQUIRED ON SITE AS REQUIRED	14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED																																
7. PERFORM PRELIMINARY GRADING AND STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE																																	
<input type="checkbox"/> Concrete	<input type="checkbox"/> Fertilizers	<input type="checkbox"/> Wood																															
<input type="checkbox"/> Asphalt	<input type="checkbox"/> Petroleum Based Products	<input type="checkbox"/> Masonry Blocks																															
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<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____																															
CONTROLS	CONTROLS	CONTROLS	CONTROLS	CONTROLS																													
TIMING OF CONTROLS/MEASURES	TIMING OF CONTROLS/MEASURES	TIMING OF CONTROLS/MEASURES	TIMING OF CONTROLS/MEASURES	TIMING OF CONTROLS/MEASURES																													
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS																													
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RESPONSIBLE FOR DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS						
DATE						
SIGNATURE						



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SEAL

MICHAEL A. COFFEY, P.E.
FL. REGISTRATION NO. 57412

REVISIONS

NO.	DESCRIPTION	DATE
1	PEMB ADDENDUM 1	6/06/13
2	CONFORMED SET	3/14/14

DATE ISSUED: APRIL 12, 2013
REVIEWED BY: M. COFFEY, P.E.
DRAWN BY: D. STALEY
DESIGNED BY: M. COFFEY, P.E.

AEP PROJECT NUMBER 107-0745-000

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SHEET TITLE

SWPPP GENERAL REQUIREMENTS

SHEET NUMBER C-302

CONFORMED SET

