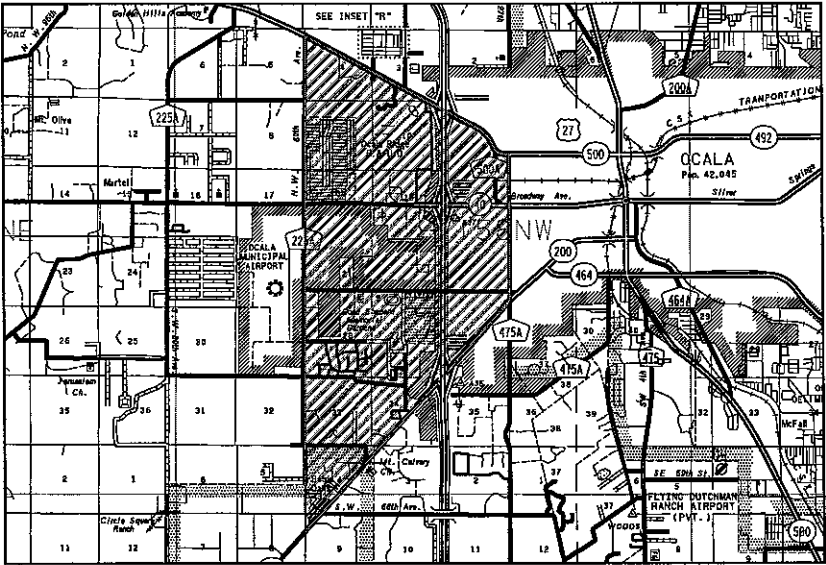


OCALA/MARION COUNTY
TRANSPORTATION PLANNING ORGANIZATION

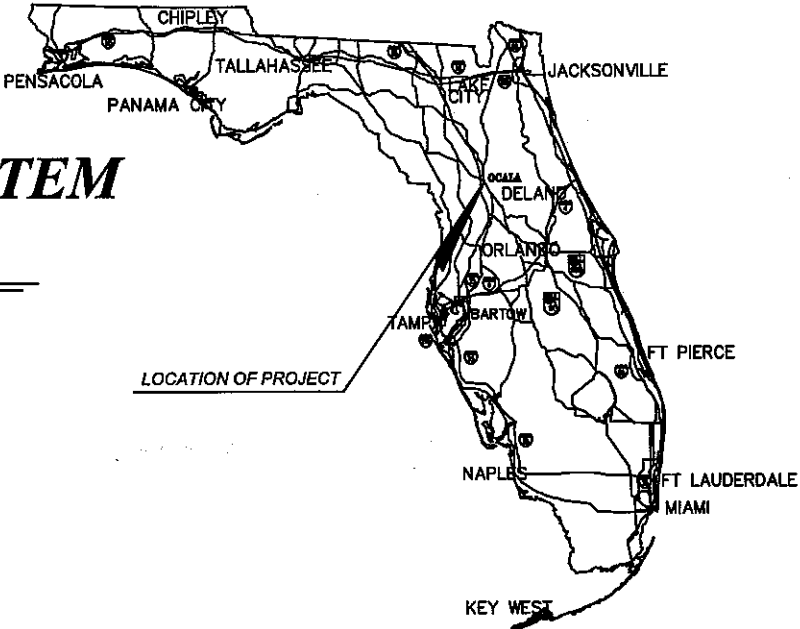
ADVANCED TRAFFIC MANAGEMENT SYSTEM
PHASE I DESIGN

INDEX OF DESIGN PLANS

SHEET NO.	SHEET DESCRIPTION
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2	TABULATION OF QUANTITIES (SHEET 1 OF 3)
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6	GENERAL NOTES
7	GENERAL NOTES
8	INTERSECTION PLAN: SR-200 @ SW 60TH AVENUE
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10	INTERSECTION PLAN: SR-200 @ SW 48TH AVENUE
11	INTERSECTION PLAN: SR-200 @ I-75 SOUTHBOUND ON-OFF RAMP
12	INTERSECTION PLAN: SR-200 @ I-75 NORTHBOUND ON-OFF RAMP
13	INTERSECTION PLAN: SR-200 @ SW 32ND AVENUE
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15	INTERSECTION PLAN: SW 27TH AVENUE @ SW 20TH STREET
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18	INTERSECTION PLAN: US-27 @ I-75 NORTHBOUND ON-OFF RAMP
19	INTERSECTION PLAN: US-27 @ I-75 SOUTHBOUND ON-OFF RAMP
20	INTERSECTION PLAN: US-27 @ NW 60TH AVENUE
21	INTERSECTION PLAN: SR-40 @ SW 60TH AVENUE
22	INTERSECTION PLAN: SR-40 @ I-75 SOUTHBOUND ON-OFF RAMP
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24	INTERSECTION PLAN: SW 60TH AVENUE @ SW 38TH STREET
25	CONCRETE CCTV POLE WITH FOUNDATION
26	TYPICAL CAMERA MOUNTING DETAILS
27	CONCRETE POLE WITH POLE MOUNT CABINET FOR ETHERNET EXTENDER
28	SCROLLING MYLAR AND STATIC SIGN KEY MAP
29	SR-40 @ NW 60TH AVENUE SCROLLING MYLAR DETAIL SHEET
30	SR-40 @ SW 52ND AVENUE SCROLLING MYLAR DETAIL SHEET
31	US-27 @ NW 60TH AVENUE SCROLLING MYLAR DETAIL SHEET
32	US-27 @ NW 49TH AVENUE SCROLLING MYLAR DETAIL SHEET
33	SR-200 @ SW 60TH AVENUE SCROLLING MYLAR DETAIL SHEET
34	SR-200 @ 40TH AVENUE SCROLLING MYLAR DETAIL SHEET
35	SCROLLING MYLAR SCENARIO DETAIL SHEET - SMA
36	SCROLLING MYLAR SCENARIO DETAIL SHEET - SMB
37	STATIC SIGN DETAIL SHEET
38	SCROLLING MYLAR SUPPORT DETAIL - SMA
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42	RADIO COMMUNICATION INTERCONNECT DETAIL
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45	TRAFFIC MONITORING STATIONS SW 27TH AVENUE @ SW 20TH STREET STATION 133 (E-10)
46	TRAFFIC MONITORING STATIONS SW 27TH AVENUE @ SR-40 STATION 99 (C-12)
47	TRAFFIC MONITORING STATIONS SW 60TH AVENUE @ SW 20TH STREET STATION 148 (G-10)
48	TRAFFIC MONITORING STATION - POWER SOURCE TYPICAL
49	RADIO COMMUNICATION INTERCONNECT DETAIL



PROJECT AREA=



PLANS PREPARED BY:

DKS Associates
TRANSPORTATION SOLUTIONS



Tindale-Oliver & Associates, Inc.
Planning and Engineering

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ALL SHOP DRAWINGS OR EQUIPMENT CUT SHEETS WILL BE SUBMITTED TO JAMES PETERS, P.E. 12000 NORTH DALE MABRY HIGHWAY, SUITE 112, TAMPA, FL 33618

ITS PLANS
ITS ENGINEER OF RECORD: *James M. Peters*
JAMES M. PETERS

P.E. NO.: 67889

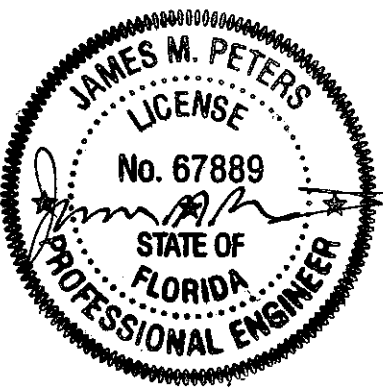
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS DATED JANUARY 2008, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, THE CITY OF OCALA STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, 2009 EDITION, AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 2010
For Design Standards Modifications click on "Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" NOTIFICATION CENTER NOT LESS THAN 48 HOURS, NOR MORE THAN FIVE DAYS IN ADVANCE OF ANY OF THE CONTRACTOR'S WORK ACTIVITY WHICH MAY IMPACT ANY UTILITY FACILITY. CALL "SUNSHINE STATE ONE CALL" AT 1-800-432-4770. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR HAVING UNDERGROUND CABLE AND UTILITIES LOCATED AND IDENTIFIED BY PROPER AUTHORITIES AT CONSTRUCTION SITES.

JANUARY 2011

KEY SHEET REVISIONS	
DATE	DESCRIPTION



SHEET NO.

1

T A B U L A T I O N O F Q U A N T I T I E S

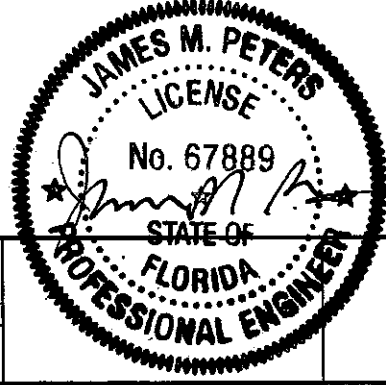
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1	101-1	MOBILIZATION	LS																										
2	102-1	MAINTENANCE OF TRAFFIC (INCLUDES SIGNS, BARRICADING, FLASHING LIGHTS, ETC.)	LS																										
3	102-14	TRAFFIC CONTROL OFFICER	MH	5		3		3		3		3		3		3		3		3		3		3		35			
4	555-1-1	2-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF																										
5	555-1-2	3-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF																										
6	630-1-12	CONDUIT, UNDERGROUND (2" PVC), F. & I.	LF																										
7	635-1-11	PULL BOX, F. & I.	EA																										
8	639-1-22	ELECTRICAL POWER F. & I. (PURCHASED BY CONTRACTOR FROM POWER COMPANY)	AS																										
9	639-2-1	POWER SERVICE WIRE	LF																										
10	641-2-12	PRESTRESSED CONCRETE POLE TYPE P-II (16'), F. & I.	EA																										
11	668-13	CABINET (FDOT TYPE III (INDEX 17900) - 32"x20"x14"), F. & I.	EA																										
12	690-50	EXISTING CABINET REMOVAL	EA																										
13	700-20-11	SINGLE POST TRAFFIC SIGN (I-75 ROUTE SIGNS), F. & I.	AS																										
14	700-20-19	SINGLE POST WITH SCROLLING MYLAR SIGN (SPECIAL), F. & I.	AS																										
15	700-48-19	TRAFFIC SIGN, F. & I. ("WHEN FLASHING") SIGN ONLY	EA																										
16	700-90-11	SOLAR FLASHING BEACON CONTROLLER ASSEMBLY, F. & I.	AS																										
17	741-70-111	TMS VEHICLE SENSOR, CLASS II, TYPE I, 1/2 LANE (6 FT.), F. & I.	EA																										
18	743-70-11	TMS VEHICLE SPEED/CLASS. UNIT (ELECTRONICS UNIT WITH EQUIPMENT CABLE), F. & I.	AS																										
19	745-70-12	TMS, INDUCTIVE LOOP ASSEMBLY (TWO LOOPS/LANE), F. & I.	AS																										
20	746-71-131	TMS, TYPE III CABINET (PEDESTAL MOUNTED), BACKPLANE, F. & I.	EA																										
21																													
22	780-1-11	ITS ELECTRICAL POWER (SOLAR), F. & I.	AS																										
23	782-1-11	ITS CCTV CAMERA (DOME ENCLOSURE-PRESSURIZED), F. & I.	EA	1		1		1		1		1		1		1		1		1		1		1		11			
		6 WIRE/18 GAUGE SHIELDED CABLE WITH (1) CAT 5e UV RATED SHIELDED CABLE	LF	360		60		260		100		75		280		310		50		50		50		150		1745			
24	783-4-111	ITS CONDUIT (2" DIA. GALVANIZED STEEL RISER, ABOVEGROUND), F. & I.	LF											20												20			
25	783-4-112	ITS CONDUIT (2" DIA. P.V.C., UNDERGROUND), F. & I.	LF	25								15		120												160			
26	783-7-1	ITS PULL AND JUNCTION BOX, F. & I.	EA	1								1		3												5			
27	784-6-11	ITS RADIO COMMUNICATIONS (MASTER LOCATION), F. & I.	EA																										
28	784-6-13	ITS RADIO COMMUNICATIONS (REMOTE LOCATION), F. & I.	EA																										
29	785-1-13	ITS POLE, CONCRETE WITHOUT LOWERING DEVICE, F. & I.	EA	1																						1			
30	785-2-111	ITS POLE MOUNTED CABINET, F. & I.	EA	1																						1			

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

 **Tindale-Oliver & Associates, Inc.**
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TABULATION OF QUANTITIES
(SHEET 1 OF 3)

SHEET NO.
2

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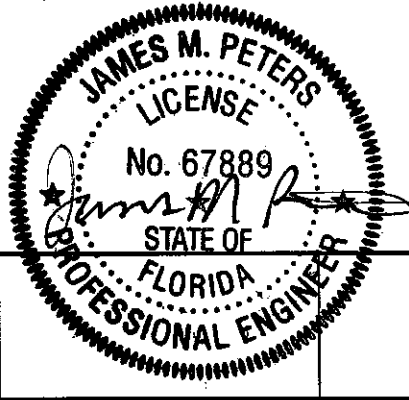
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1	101-1	MOBILIZATION	LS																										
2	102-1	MAINTENANCE OF TRAFFIC (INCLUDES SIGNS, BARRICADING, FLASHING LIGHTS, ETC.)	LS																										
3	102-14	TRAFFIC CONTROL OFFICER	MH	3		3		3		3		3		3		2		2		2		2		2		28			
4	555-1-1	2-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF																										
5	555-1-2	3-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF			270																				270			
6	630-1-12	CONDUIT, UNDERGROUND (2' PVC), F. & I.	LF																										
7	635-1-11	PULL BOX, F. & I.	EA																										
8	639-1-22	ELECTRICAL POWER F. & I. (PURCHASED BY CONTRACTOR FROM POWER COMPANY)	AS																										
9	639-2-1	POWER SERVICE WIRE	LF																										
10	641-2-12	PRESTRESSED CONCRETE POLE TYPE P-II (12'), F. & I.	EA																										
11	668-13	CABINET (FDOT TYPE III (INDEX 17900) - 32"x20"x14"), F. & I.	EA													5		1		3		1		4		14			
12	690-50	EXISTING CABINET REMOVAL	EA																										
13	700-20-11	SINGLE POST TRAFFIC SIGN (I-75 ROUTE SIGNS), F. & I.	AS																										
14	700-20-19	SINGLE POST WITH SCROLLING MYLAR SIGN (SPECIAL), F. & I.	AS													5		1		3		1		4		14			
15	700-48-19	TRAFFIC SIGN, F. & I. ("WHEN FLASHING") SIGN ONLY	EA													3		1		1		1		1		7			
16	700-90-11	SOLAR FLASHING BEACON CONTROLLER ASSEMBLY, F. & I.	AS													3		1		1		1		1		7			
17	741-70-111	TMS VEHICLE SENSOR, CLASS II, TYPE I, 1/2 LANE (6 FT.), F. & I.	EA																										
18	743-70-11	TMS VEHICLE SPEED/CLASS. UNIT (ELECTRONICS UNIT WITH EQUIPMENT CABLE), F. & I.	AS																										
19	745-70-12	TMS, INDUCTIVE LOOP ASSEMBLY (TWO LOOPS/LANE), F. & I.	AS																										
20	746-71-131	TMS, TYPE III CABINET (PEDESTAL MOUNTED), BACKPLANE, F. & I.	EA																										
21																													
22	780-1-11	ITS ELECTRICAL POWER (SOLAR), F. & I.	AS													5		1		3		1		4		14			
23	782-1-11	ITS CCTV CAMERA (DOME ENCLOSURE-PRESSURIZED), F. & I.	EA	1		1		1		1		1		1												6			
		6 WIRE/18 GAUGE SHIELDED CABLE WITH (1) CAT 5e UV RATED SHIELDED CABLE	LF	75		220		60		60		75		165												665			
24	783-4-111	ITS CONDUIT (2" DIA. GALVANIZED STEEL RISER, ABOVEGROUND), F. & I.	LF			20								20		15								15		70			
25	783-4-112	ITS CONDUIT (2" DIA. P.V.C., UNDERGROUND), F. & I.	LF	14										15												25			
26	783-7-1	ITS PULL AND JUNCTION BOX, F. & I.	EA	1		2																				3			
27	784-6-11	ITS RADIO COMMUNICATIONS (MASTER LOCATION), F. & I.	EA													1				1				1		3			
28	784-6-13	ITS RADIO COMMUNICATIONS (REMOTE LOCATION), F. & I.	EA													5		1		3		1		4		14			
29	785-1-13	ITS POLE, CONCRETE WITHOUT LOWERING DEVICE, F. & I.	EA																										
30	785-2-111	ITS POLE MOUNTED CABINET, F. & I.	EA																										

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

 **Tindale-Oliver & Associates, Inc.**
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TABULATION OF QUANTITIES
(SHEET 2 OF 3)

SHEET NO.
3

T A B U L A T I O N O F Q U A N T I T I E S

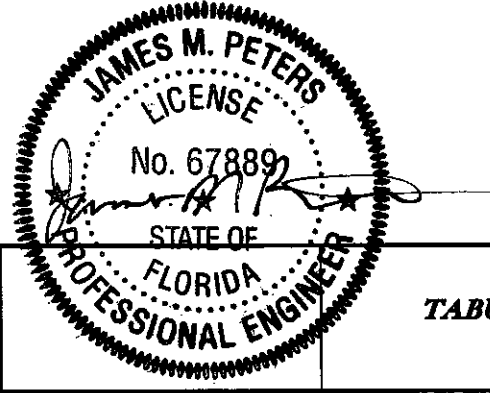
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1	101-1	MOBILIZATION	LS																								1
2	102-1	MAINTENANCE OF TRAFFIC (INCLUDES SIGNS, BARRICADING, FLASHING LIGHTS, ETC.)	LS																								1
3	102-14	TRAFFIC CONTROL OFFICER	MH	2		1		2		2		2													9		72
4	555-1-1	2-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF							180															180		180
5	555-1-2	3-2" HDPE CONDUIT (DIRECTIONAL BORE), F. & I.	LF									120													120		290
6	630-1-12	CONDUIT, UNDERGROUND (2' PVC), F. & I.	LF					190		75		880													1145		1145
7	635-1-11	PULL BOX, F. & I.	EA							3		2													6		6
8	639-1-22	ELECTRICAL POWER F. & I. (PURCHASED BY CONTRACTOR FROM POWER COMPANY)	AS					1		1		1													3		3
9	639-2-1	POWER SERVICE WIRE	LF					430		230		430													1090		1090
10	641-2-12	PRESTRESSED CONCRETE POLE TYPE P-II (16'), F. & I.	EA					1		1		1													3		3
11	668-13	CABINET (FDOT TYPE III (INDEX 17900) - 32"x20"x14"), F. & I.	EA	1																					1		15
12	690-50	EXISTING CABINET REMOVAL	EA					1		1															2		2
13	700-20-11	SINGLE POST TRAFFIC SIGN (1-75 ROUTE SIGNS), F. & I.	AS			4																			4		4
14	700-20-19	SINGLE POST WITH SCROLLING MYLAR SIGN (SPECIAL), F. & I.	AS	1																					1		15
15	700-48-19	TRAFFIC SIGN, F. & I. ("WHEN FLASHING") SIGN ONLY	EA	1																					1		8
16	700-90-11	SOLAR FLASHING BEACON CONTROLLER ASSEMBLY, F. & I.	AS	1																					1		8
17	741-70-111	TMS VEHICLE SENSOR, CLASS II, TYPE I, 1/2 LANE (6 FT.), F. & I.	EA							4															4		4
18	743-70-11	TMS VEHICLE SPEED/CLASS. UNIT (ELECTRONICS UNIT WITH EQUIPMENT CABLE), F. & I.	AS					1		1		1													3		3
19	745-70-12	TMS, INDUCTIVE LOOP ASSEMBLY (TWO LOOPS/LANE), F. & I.	AS							8															8		8
20	746-71-131	TMS, TYPE III CABINET (PEDESTAL MOUNTED), BACKPLANE, F. & I.	EA					1		1		1													3		3
21																											
22	780-1-11	ITS ELECTRICAL POWER (SOLAR), F. & I.	AS	1																					1		15
23	782-1-11	ITS CCTV CAMERA (DOME ENCLOSURE-PRESSURIZED), F. & I.	EA																								17
		6 WIRE/18 GAUGE SHIELDED CABLE WITH (1) CAT 5e UV RATED SHIELDED CABLE	LF																								2410
24	783-4-111	ITS CONDUIT (2" DIA. GALVANIZED STEEL RISER, ABOVEGROUND), F. & I.	LF					12		12		12													36		126
25	783-4-112	ITS CONDUIT (2" DIA. P.V.C., UNDERGROUND), F. & I.	LF																								189
26	783-7-1	ITS PULL AND JUNCTION BOX, F. & I.	EA																								8
27	784-6-11	ITS RADIO COMMUNICATIONS (MASTER LOCATION), F. & I.	EA													3									3		6
28	784-6-13	ITS RADIO COMMUNICATIONS (REMOTE LOCATION), F. & I.	EA	1				1		1		1													4		18
29	785-1-13	ITS POLE, CONCRETE WITHOUT LOWERING DEVICE, F. & I.	EA																								1
30	785-2-111	ITS POLE MOUNTED CABINET, F. & I.	EA																								1

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

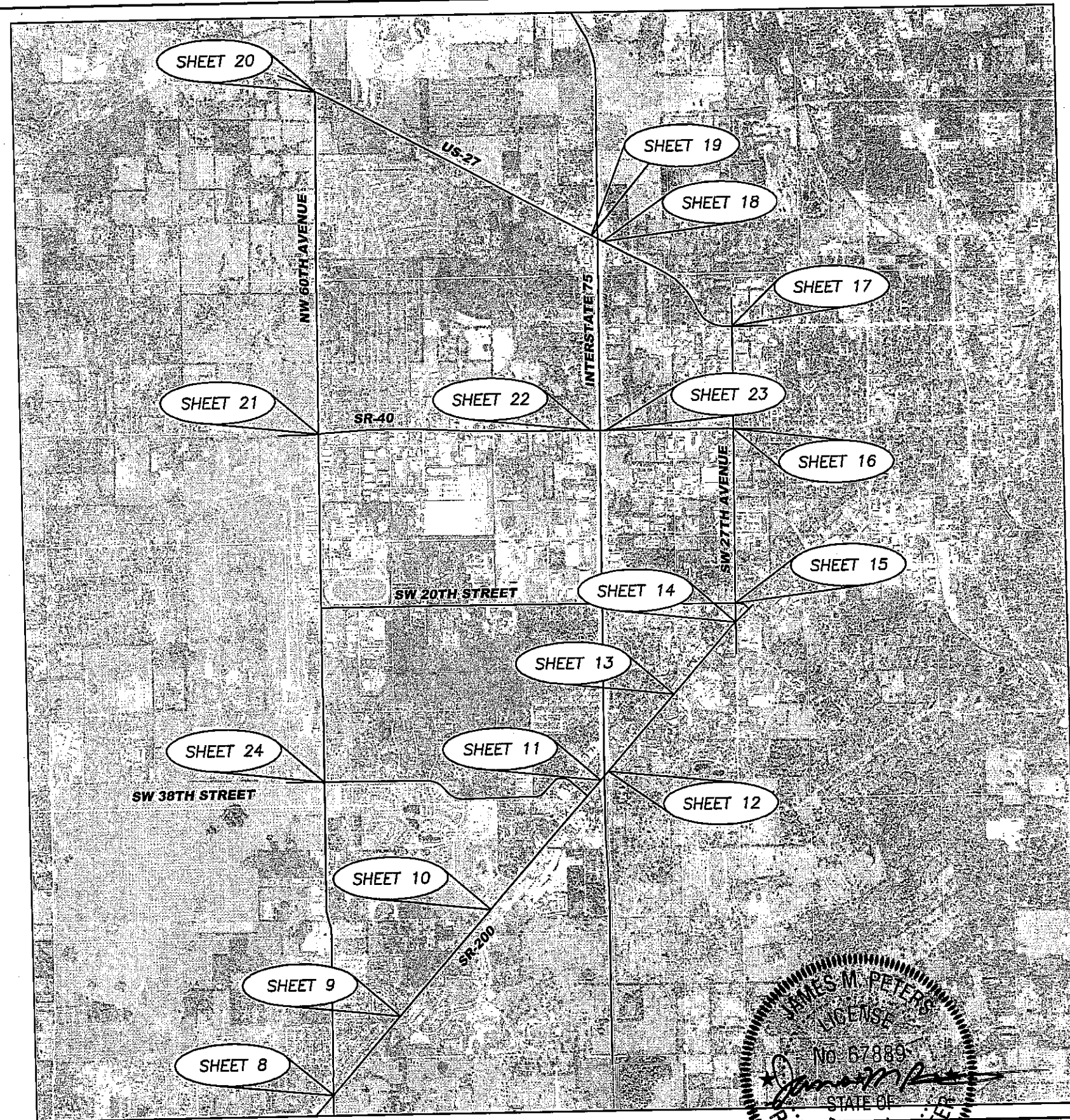
 **Tindale-Oliver & Associates, Inc.**
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TABULATION OF QUANTITIES
(SHEET 3 OF 3)

SHEET NO.
4



REVISIONS DATE DESCRIPTION		DKS Associates TRANSPORTATION SOLUTIONS Tindale-Oliver & Associates, Inc. Planning and Engineering	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			ROAD NO. COUNTY FINANCIAL PROJECT ID -- -- --	 3/9/10	CLOSED CIRCUIT TELEVISION (CCTV) CAMERA KEY MAP		SHEET NO. 5

GENERAL NOTES

GENERAL

1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007), THE FDOT DESIGN STANDARDS (2008), AND ALL SUPPLEMENTS APPLICABLE THERETO.
2. ALL WORK SHALL CONFORM TO THE ABOVE STANDARDS REQUIREMENTS AND ANY LOCAL JURISDICTIONAL REQUIREMENTS THAT EXCEED THOSE LISTED ABOVE, AND ANY MANUFACTURER'S REQUIREMENTS THAT ARE NOT COVERED IN THE ABOVE. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCALA TRAFFIC (352) 351-6733, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND ANYTIME WORK IS BEING PERFORMED.
3. ANY EXISTING EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE DELIVERED TO THE CITY OF OCALA TRAFFIC DIVISION LOCATED AT: 2100 NE 30TH AVE., OCALA, FL-34475, (352)-351-6733.
4. ALL MAINTENANCE OF TRAFFIC FOR THIS INSTALLATION SHALL CONFORM TO THE FDOT STANDARD INDEX(ES) 600 THROUGH 650 THAT ARE MOST APPLICABLE TO THE INTENT OF THE CONSTRUCTION ACTIVITY IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THIS PROJECT. THIS WILL BE A LUMP SUM PAY ITEM FOR THE TERM OF THE PROJECT.
5. IN THE EVENT THAT LANE CLOSURES ARE REQUIRED THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE FDOT MAINTENANCE OFFICE, MARION COUNTY AND CITY OF OCALA TRAFFIC DIVISION. TRAFFIC CONTROL THROUGH WORK ZONE SHALL BE AS SHOWN ON FDOT INDEXES 611 AND 613. THERE WILL BE NO LANE CLOSURES FROM 7 A.M. TO 7 P.M. AND THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TRAFFIC CONTROL OFFICER TO DIRECT TRAFFIC FOR THE DURATION OF THE CLOSURE(S). PAYMENT FOR THE OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY. CONTACT CITY TRAFFIC ENGINEER (352-351-6733), FOR LANE CLOSURES.
6. AT THE TIME OF FINAL INSPECTION OF THE INSTALLATION, THE CONTRACTOR SHALL PROVIDE FIVE SETS OF CONSTRUCTION "AS-BUILTS" (ONE TO FDOT), ONE FOR THE TRAFFIC MANAGEMENT CENTER, ONE FOR THE CITY OF OCALA, AND ONE IN DIGITAL FORMAT, AUTOCAD 2000 OR HIGHER, AND ONE FOR THE COUNTY.
7. ALL DISTURBED AREAS, INCLUDING AREAS OUTSIDE THE CONSTRUCTION LIMITS, SHALL BE RETURNED TO THEIR PRECONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE. GRASS AREAS SHALL BE SODDED, NOT SEEDED OR MULCHED.
8. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO PRECONSTRUCTION CONDITIONS WITHIN 72 HOURS OF THE REFERENCED CONSTRUCTION ACTIVITY. THIS INCLUDES RESTORATION OF GRADE AND SODDING FOR STABILIZATION, THE CONTRACTOR SHALL BE REQUIRED TO WATER THE SOD FOR TWO WEEKS TO ENSURE THE SOD HAS TIME TO ROOT.
9. THESE PLANS REFLECT CONDITIONS KNOWN AT THE TIME OF PLAN DEVELOPMENT, IN THE EVENT THAT ACTUAL FIELD CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND/OR THE SPECIFICATIONS OR THE PROGRESSION OF THE WORK SPECIFIED IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER IN CHARGE IMMEDIATELY AND PRIOR TO ANY FURTHER PROSECUTION OF THE WORK.
10. ADJUSTMENTS OF ALL EQUIPMENT MAY BECOME NECESSARY TO MEET FIELD CONDITIONS. VARIATIONS FROM THE DESIGNATED LOCATION MUST BE PRE-APPROVED BY THE TRAFFIC ENGINEER IN WRITING.
11. ALL GROUNDING CONNECTORS SHALL BE BONDED TO THE GROUND RODS USING AN EXOTHERMIC WELD.
12. ALL ELECTRICAL WIRES SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, NATIONAL SAFETY CODE, AND FDOT SPECIFICATIONS. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
13. ALL CONDUITS SHALL BE CAPPED WITH WATERPROOF PLUGS AND FURNISHED WITH A PULL CORD FOR FUTURE USE.
14. THE CONTRACTOR SHALL NOTIFY FDOT DISTRICT-5 ITS SYSTEMS MANAGER, MIKE SMITH (386-943-5360), PRIOR TO BEGINNING ANY WORK WITHIN FDOT RIGHT-OF-WAY.
15. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION WITH PROPER SAFEGUARDS.
16. CONDUIT RUNS SHALL NOT EXCEED 270 DEGREES OF BENDS BETWEEN PULL BOXES.
17. ALL CONDUITS CROSSING A ROADWAY AT THE SAME LOCATION SHALL BE INSTALLED IN ONE DIRECTIONAL DRILL OPERATION.
18. CONTRACTOR SHALL HAND DIG AROUND EXISTING CABINETS, PULL BOXES, CONDUIT AND DEVICES.
19. BRACKETS AND SPACERS WHICH ARE REQUIRED TO OFFSET THE RIGID METAL CONDUIT FROM THE MOUNTING SHALL BE OF SIMILAR MATERIALS OR INSULATED WITH NON-REACTIVE MATERIAL TO PREVENT CATHODIC REACTIONS.
20. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UTILITIES SHOWN IN PLANS WERE PLOTTED FROM AVAILABLE INFORMATION. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES LISTED BELOW OF WORK BEFORE BEGINNING CONSTRUCTION IN THE AREA. AT A MINIMUM OF TWO FULL BUSINESS DAYS PRIOR TO DIGGING, OR 10 DAYS IF DIGGING UNDER WATER. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA AT (800) 432-4770, FDOT ITS MANAGEMENT, AND THE APPROPRIATE UTILITY OWNERS AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANIES LOCATE THEIR FACILITIES.
- | UTILITY AGENCY OWNER | CONTACT PERSON | TELEPHONE NUMBER |
|-----------------------------------|-----------------|------------------|
| CITY OF OCALA-ELECTRIC | MIKE POUCHER | (352) 351-6620 |
| CITY OF OCALA-TRAFFIC | WINSTON SCHULER | (352) 351-6733 |
| CITY OF OCALA-WATER & SEWER | MIKE GROVES | (352) 629-8521 |
| COX CABLE | CRAIG SANDERS | (352) 873-5629 |
| EMBARQ | TED YOUNG | (352) 368-3393 |
| SUMPTER ELECTRIC COOPERATIVE | JERRY BOLDUC | (352) 793-3801 |
| TECO PEOPLES GAS | PAUL MILLER | (352) 401-3428 |
| MARION COUNTY UTILITIES | LAURA KOVAL | (352) 671-8510 |
| MARION COUNTY TRAFFIC ENGINEERING | ROB VILAK | (352) 671-8686 |
21. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CONDITION OF THE EXISTING CONDUIT.

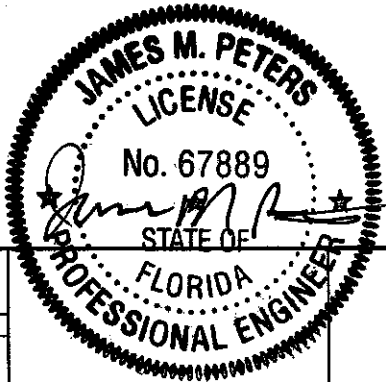
22. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY REPRESENTATIVE WHO IS RESPONSIBLE FOR TECHNICAL ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES.
23. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS WHERE POTENTIAL CONFLICTS BETWEEN THE CONTRACTOR'S ACTIVITIES AND EXISTING UTILITIES MAY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR DUE DILIGENCE IN PERFORMANCE OF SAID CONSTRUCTION ACTIVITY WITH RESPECT TO METHOD OF INSTALLATION TO MINIMIZE THE IMPACT OF SAID INSTALLATION ON CONFLICTING UTILITIES.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE SECONDARY VOLTAGE OF TRANSFORMERS TO ENSURE THAT THE SUPPLIED VOLTAGE IS WITHIN THE THRESHOLD REQUIREMENTS AS SPECIFIED BY MANUFACTURER'S RECOMMENDATIONS. VOLTAGE AND AMPERAGE RATINGS SHALL BE TAKEN UNDER MAXIMUM LOAD AND MINIMAL LOAD CONDITIONS. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR MAY BE REQUIRED TO CHANGE THE TRANSFORMER PRIMARY TAP SETTING TO ADJUST THE SECONDARY VOLTAGE, OR MAKE OTHER ACCOMMODATIONS WITH THE MANUFACTURER OF THE TRANSFORMER TO ENSURE PROPER VOLTAGE.
25. OCALA ELECTRIC UTILITIES WILL FURNISH AND INSTALL FIBER OPTIC CABLE TO THE FDOT DISTRICT 5 MAINTENANCE, 627 NW 30TH AVENUE, OCALA, FL 34475.
26. CONTRACTOR SHALL NOTIFY CITY OF OCALA TRAFFIC DIVISION, WINSTON SCHULER (352) 351-6733, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
27. CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF POLE FOUNDATIONS.
28. ALL FIELD WIRING SHALL BE CLEARLY IDENTIFIED WITH WATERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE.
29. CONTRACTOR SHALL BE REQUIRED TO SIZE POWER CONDUCTORS. THE SIZE OF THE POWER CONDUCTORS SHALL BE A MINIMUM OF AWG #14.
30. ANY SIDEWALK DAMAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
31. REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
32. REFER TO FDOT STANDARD INDEXES 17900 FOR TRAFFIC MONITORING SITE PLANS.

ITS CONDUIT

1. A PULL TAPE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST THREE FEET OF PULL TAPE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SHALL BE SECURED WITHIN THE PULL BOX OR PLACE OF TERMINATION.
2. ALL CONDUIT SHALL BE RODDED AND BRUSHED. SEE SECTION 783 OF F.D.O.T. SPECIFICATIONS
3. ALL CONDUIT SHALL COMPLY WITH FDOT SPECIFICATIONS FOR ITS CONDUIT SECTION 783.
4. DETECTABLE LOCATING TAPE SHALL BE PLACED OVER THE CENTERLINE OF ALL TRENCHED PVC PIPE AT ONE FOOT BELOW GRADE. PAYMENT FOR DETECTION TAPE IS INCLUDED IN THE PAY ITEM FOR CONDUIT.
5. THE TERMINATION ENDS OF ALL POLYVINYL CHLORIDE (PVC) PLASTIC CONDUIT ENTERING ALL PULLBOXES AND CABINET BASES SHALL BE FITTED WITH AN END BELL DUCT FITTING PRIOR TO ANY PULLLINE OR CABLE INSTALLATION.

LEGEND

- -- EXISTING CONDUIT
- -- PROPOSED CONDUIT
- -- RIGHT-OF-WAY LINE
- EXISTING PULL BOX
- EXISTING CONTROLLER CABINET
- PROPOSED CCTV POLE MOUNTED CABINET
- PROPOSED CCTV CAMERA
- EXISTING TRAFFIC SIGNAL POLE
- PROPOSED CCTV POLE
- ◇ EXISTING POWER POLE
- EXISTING RISER ATTACHED TO SIGNAL POLE
- R/W - RIGHT-OF-WAY
- TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSORS
- CCTV - CLOSED CIRCUIT TELEVISION
- FSM - FIBER SINGLE MODE
- OEU - OCALA ELECTRIC UTILITY
- TCC - TRAFFIC CONTROL CABINET
- AWG - AMERICAN WIRE GAUGE
- IMC - INTERMEDIATE METAL CONDUIT



GENERAL NOTES

REVISIONS		 DKS Associates TRANSPORTATION SOLUTIONS		SHEET NO.			
DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID
		 Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--	GENERAL NOTES	6

DKS Associates
TRANSPORTATION SOLUTIONS

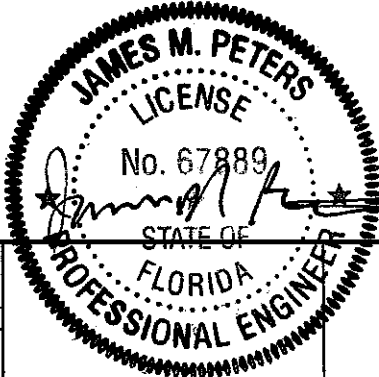
Tindale-Oliver & Associates, Inc.
Planning and Engineering

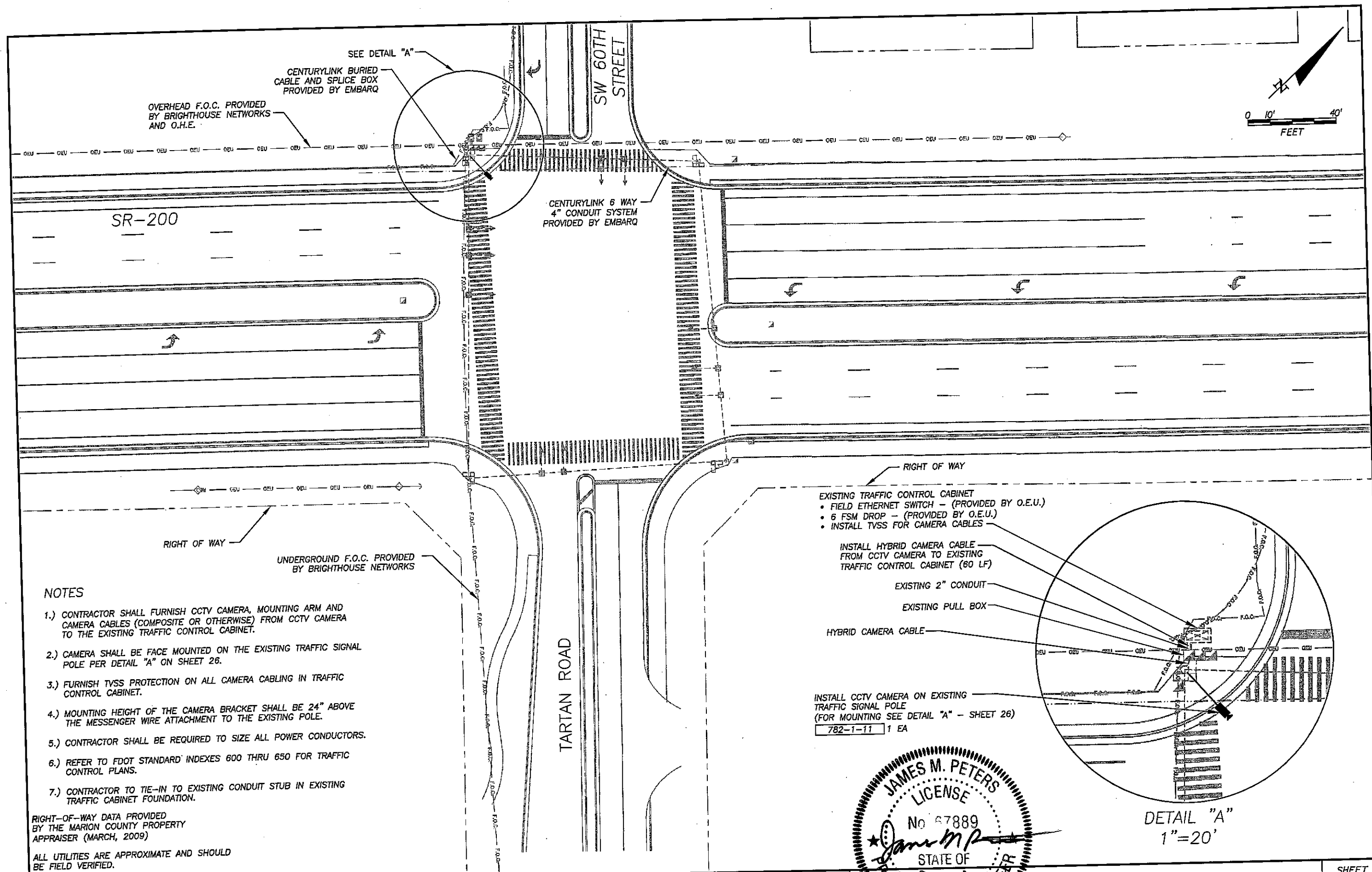
GENERAL NOTES

PAY ITEM FOOT NOTES

1. 555-1-2: SHALL INCLUDE 3 RUNS OF CONDUIT. ALL ROAD BORES INCLUDE MINIMUM OF THREE CONDUIT RUNS.
2. 668-13: SHALL INCLUDE A POLE MOUNTED CABINET TYPE III (32"H X 20"W X 4" D) AND BRACKETS FROM SOUTHERN MANUFACTURING, OR EQUIVALENT PRODUCT FROM MANUFACTURERS LISTED UNDER FDOT APPROVED PRODUCT LIST (APL).
3. 690-50: SHALL INCLUDE COST OF REMOVING EXISTING GROUND MOUNTED TRAFFIC DATA RECORDER CABINET AND SALVAGING IT TO THE CITY OF OCALA TRAFFIC DIVISION, LOCATED AT 2100 NE 30TH AVENUE., OCALA, FL-34470 (352-351-6733). BASIS OF PAYMENT FOR THIS ITEM IS EACH "EA".
4. 700-20-19: SHALL INCLUDE 4" DIAMETER METAL POLE (12' LONG) WITH FOUNDATION. THE POLE-MOUNTED SIGN SHALL BE SCROLLING MYLAR SIGN FROM SKYLINE PRODUCTS INC., WITH DIMENSIONS AND SCROLLS AS SHOWN ON THE PLAN SHEETS. THE COST SHALL ALSO INCLUDE FURNISHING AND INSTALLING THE SCROLLING MYLAR SIGN, CONTROLLER, CABLES, BRACKETS AND INCIDENTALS TO COMPLETE THE WORK.
5. 700-90-11: SHALL INCLUDE A 12" YELLOW SOLAR FLASHING BEACON WITH TUNNEL VISOR, CONTROLLER ASSEMBLY AND APPROPRIATE BRACKETS TO MOUNT THE BEACON TO THE 4-1/4" METAL POLE ABOVE THE SCROLLING MYLAR SIGN.
6. 743-70-111: SHALL BE ADR-3000 PLUS TRAFFIC COUNTER/CLASSIFIER FROM PEEK TRAFFIC. THE COST SHALL INCLUDE FURNISHING, INSTALLING, AND TESTING OF ALL EQUIPMENT AND CONNECTIONS TO MAKE THE UNIT OPERATIONAL. THE PRODUCT SHALL INCLUDE DOCUMENTATION AND WARRANTY FROM THE MANUFACTURER.
7. 780-1-11: SHALL INCLUDE 80 WATT OFF GRID MODULE SOLAR PANEL (NE-BOEJEA FROM SHARP OR EQUIVALENT), POLE MOUNT BRACKETS, TWO SOLAR GEL BATTERIES (97190 IGL FROM ALPHACELL INTERNATIONAL GEL OR EQUIVALENT), CONNECTING CABLES ,CHARGER AND UPS . THE BATTERIES SHALL BE CAPABLE OF STORING ENOUGH POWER TO RUN THE SIGN, FLASHING BEACON AND RADIO EQUIPMENT FOR A CONTINUOUS PERIOD OF 48 HOURS.
8. 782-1-11: SHALL BE BOSCH VG4-524-ECEOR 500I SERIES PTZ 36X D/N NTSC IP OR EQUIVALENT, WITH 2 POWER SUPPLIES AND COMPATIBLE WITH CITY OF OCALA TRAFFIC MANAGEMENT CENTER. THE CONTRACT UNIT PRICE FOR EACH CCTV CAMERA FURNISHED AND INSTALLED, WILL INCLUDE FURNISHING, PLACEMENT, AND TESTING OF ALL EQUIPMENT AND MATERIALS INCLUDING ALL CAMERA CABLES, ETHERNET EXTENDER UNITS, TVSS FOR CAMERA CABLES, CAMERA MOUNTING ARM/BRACKET AND FOR ALL TOOLS, LABOR, OPERATIONAL SOFTWARE PACKAGE(S) AND FIRMWARE(S), SUPPLIES, SUPPORT, PERSONNEL TRAINING, SHOP DRAWINGS, DOCUMENTATION, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THE ETHERNET CABLE FOR VIDEO AND DATA CONTROL SHALL BE (1) 6 WIRE/18 GAUGE SHIELDED CABLE WITH (1) CAT 5e UV RATED SHIELDED CABLE. BOTH CABLES ENCAPSULATED WITH (1) PVC UV RATED CABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE POWER CONDUCTORS FOR THE CAMERAS. THE LUMINAIRE BRACKET FOR THE CAMERA SHALL BE USS MANUFACTURED TAPERED ELLIPTICAL BRACKET - TER SERIES 10 MA OR EQUIVALENT. THE ETHERNET EXTENDER USED AT SR 200 AND SW 60TH AVENUE SHALL BE ENABLE-IT 860 LRE OR EQUIVALENT.
9. 783-4-111: COST FOR RISERS ATTACHED TO THE POLES (GALVANIZED STEEL RISER) SHALL INCLUDE WEATHER HEADS TO PROTECT FROM RAIN WATER.
10. 783-7-1: SHALL INCLUDE THE COST OF ALL LABOR AND MATERIALS TO CONSTRUCT 12 INCH WIDE BY 6 INCH THICK (TYPICAL) CONCRETE APRONS AROUND THE PULL BOXES INSTALLED IN GRASS OR TURF AREA.
11. 784-6-11: SHALL INCLUDE COST FOR FURNISHING, INSTALLING, TESTING 900 MHZ MASTER RADIOS (ENCOM 5000ESS ETHERNET SERIAL SERVER OR EQUIVALENT), OMNI DIRECTIONAL ANTENNA (ENCOM MODEL # AN-160 OR EQUIVALENT) WITH POLE MOUNTING BRACKETS, LIGHTNING PROTECTOR (ENCOM RA-702 OR EQUIVALENT), LMR CABLE (ENCOM CB-1045 45 FT OR EQUIVALENT), RF JUMPER CABLE (ENCOM CB 10127R OR EQUIVALENT), .TRAFFIC MONITORING SERIAL CABLE (PEEK COMPUTER CABLE MODEL # G1120087 OR EQUIVALENT), DATA CABLES, AND MAKING THE SYSTEM OPERATIONAL IN AN END TO END FASHION WITH PC HOSTING THE APPLICATION.
12. 784-6-13: SHALL INCLUDE COST FOR FURNISHING, INSTALLING, TESTING 900 MHZ REMOTE RADIOS (ENCOM CAMPAK MODEL 5200 900 MHZ SERIAL SPREAD SPECTRUM RADIO MODEM) FOR REMOTE LOCATIONS, 900 MHZ YAGI DIRECTIONAL ANTENNA (MDS CLEARWAVE 97-3194-A13 OR EQUIVALENT WITH 3 ELEMENTS FOR LOCATIONS CLOSER TO THE MASTER AND MDS CLEARWAVE 97-3194-A14 OR EQUIVALENT WITH 6 ELEMENTS FOR LOCATIONS FAR FROM THE MASTER) WITH POLE MOUNTING BRACKETS, LIGHTING PROTECTION AND CONNECTING CABLES. THIS PAY ITEM INCLUDES COST FOR FURNISHING, INSTALLING OF THE EQUIPMENT, MAKING THE SYSTEM OPERATIONAL, DOCUMENTATION AND ANY INCIDENTALS NECESSARY TO COMPLETE THE WORK (SEE SHEET 49).
13. 785-2-111: POLE MOUNTED CABINET SHALL BE 32"H X 20"W X 14"D FROM SOUTHERN MANUFACTURING OR EQUIVALENT AND SHALL INCLUDE 15 AMP AC BREAKER, 2 DUPLEX 110V AC OUTLETS, GROUNDING AND LIGHTING PROTECTION.

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			GENERAL NOTES	SHEET NO. 7
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		 Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	---		





NOTES

- 1.) CONTRACTOR SHALL FURNISH CCTV CAMERA, MOUNTING ARM AND CAMERA CABLES (COMPOSITE OR OTHERWISE) FROM CCTV CAMERA TO THE EXISTING TRAFFIC CONTROL CABINET.
- 2.) CAMERA SHALL BE FACE MOUNTED ON THE EXISTING TRAFFIC SIGNAL POLE PER DETAIL "A" ON SHEET 26.
- 3.) FURNISH TVSS PROTECTION ON ALL CAMERA CABLING IN TRAFFIC CONTROL CABINET.
- 4.) MOUNTING HEIGHT OF THE CAMERA BRACKET SHALL BE 24" ABOVE THE MESSENGER WIRE ATTACHMENT TO THE EXISTING POLE.
- 5.) CONTRACTOR SHALL BE REQUIRED TO SIZE ALL POWER CONDUCTORS.
- 6.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 7.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

RIGHT-OF-WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH, 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

- EXISTING TRAFFIC CONTROL CABINET
- FIELD ETHERNET SWITCH - (PROVIDED BY O.E.U.)
- 6 FSM DROP - (PROVIDED BY O.E.U.)
- INSTALL TVSS FOR CAMERA CABLES

INSTALL HYBRID CAMERA CABLE FROM CCTV CAMERA TO EXISTING TRAFFIC CONTROL CABINET (60 LF)

EXISTING 2" CONDUIT

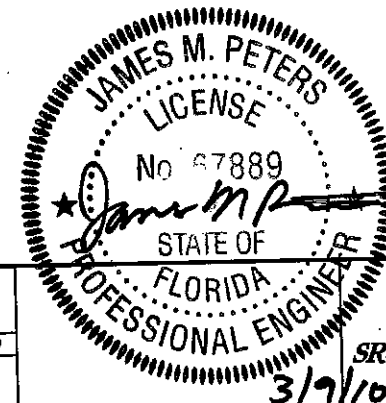
EXISTING PULL BOX

HYBRID CAMERA CABLE

INSTALL CCTV CAMERA ON EXISTING TRAFFIC SIGNAL POLE (FOR MOUNTING SEE DETAIL "A" - SHEET 26)

782-1-11 1 EA

DETAIL "A"
1"=20'



REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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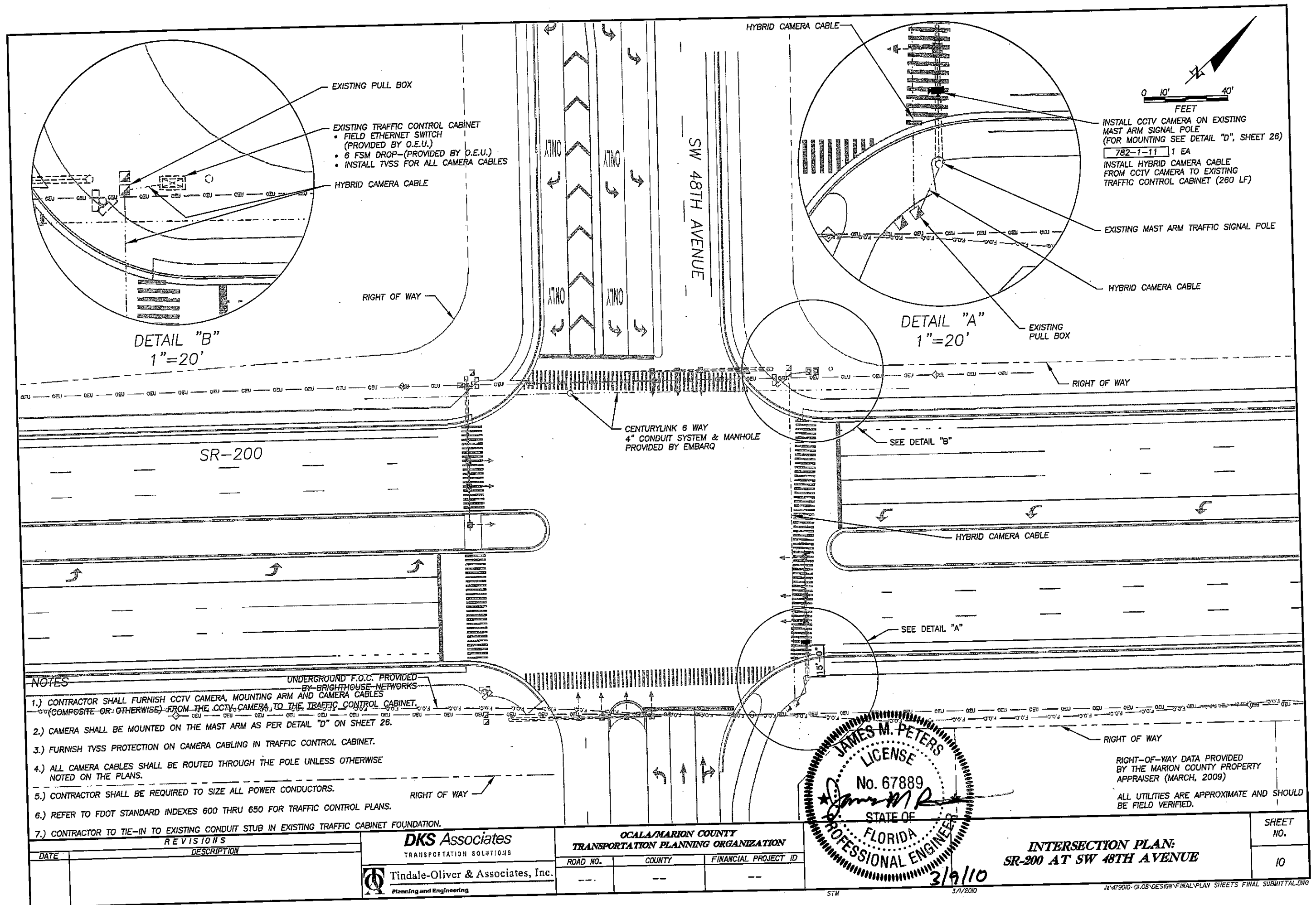
INTERSECTION PLAN:
SR-200 AT TARTAN ROAD/SW 60TH STREET

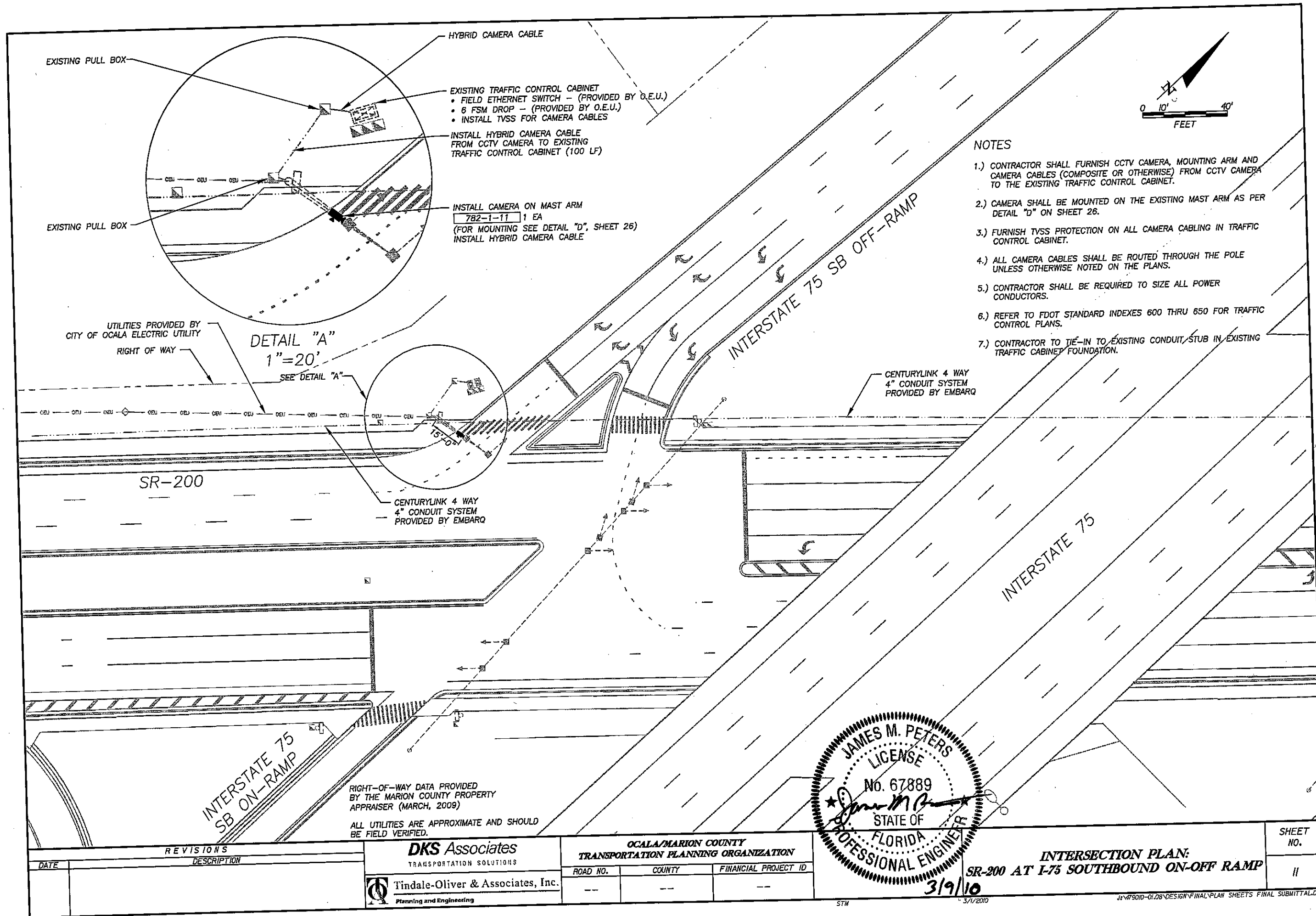
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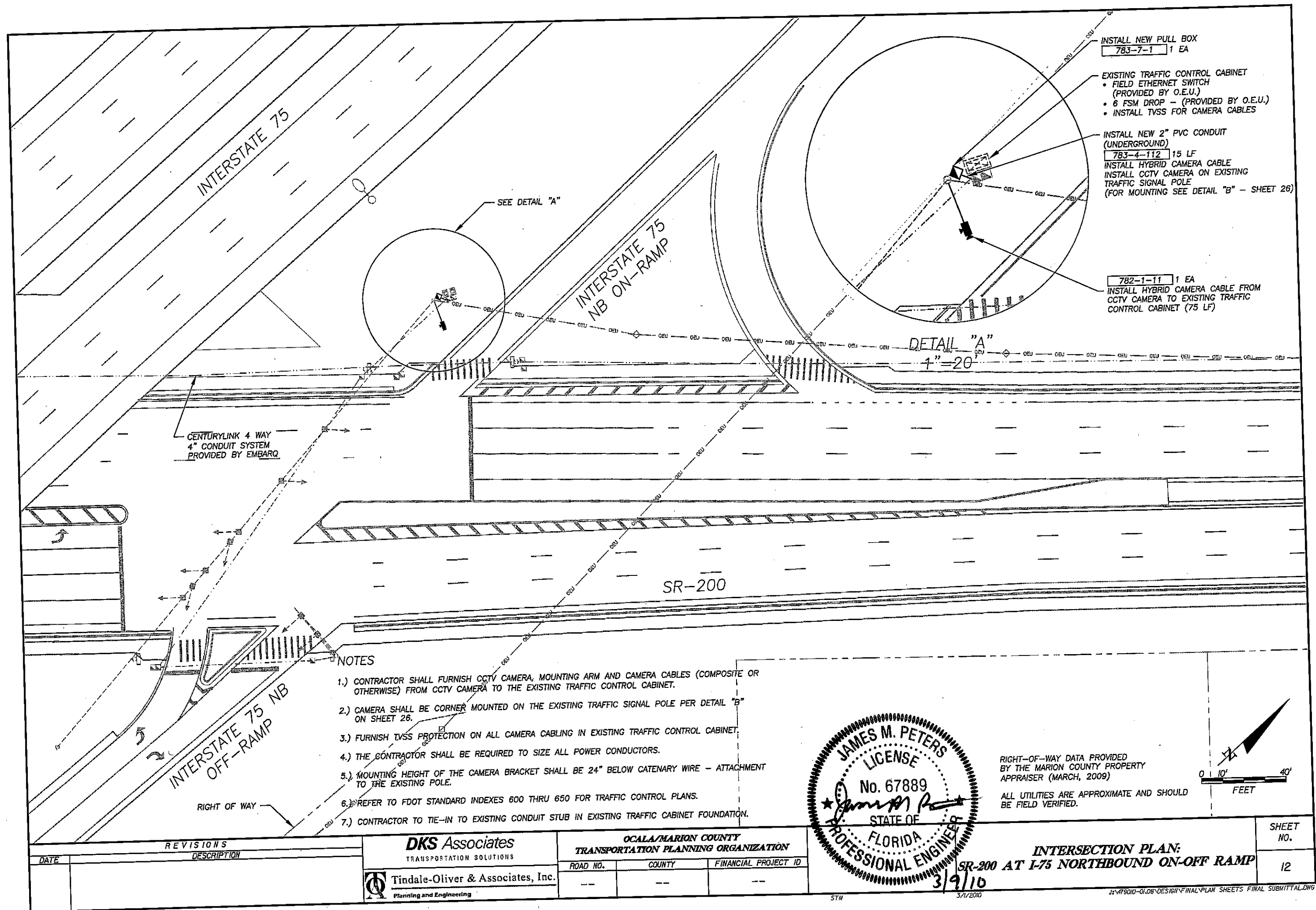
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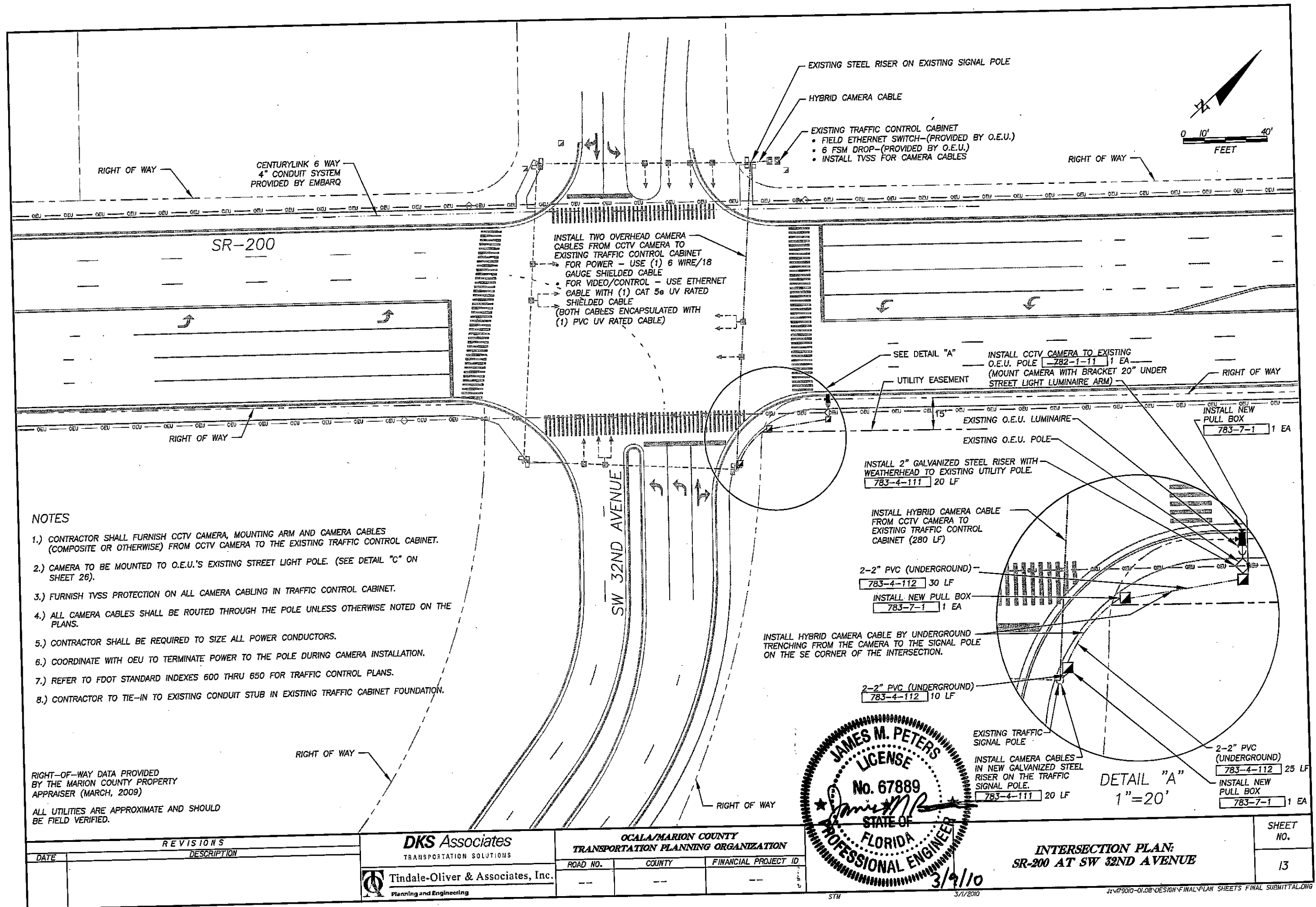
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SHEET NO.
9









NOTES

- 1.) CONTRACTOR SHALL FURNISH CCTV CAMERA, MOUNTING ARM AND CAMERA CABLES (COMPOSITE OR OTHERWISE) FROM CCTV CAMERA TO THE EXISTING TRAFFIC CONTROL CABINET.
- 2.) CAMERA TO BE MOUNTED TO O.E.U.'S EXISTING STREET LIGHT POLE. (SEE DETAIL "C" ON SHEET 26).
- 3.) FURNISH TVSS PROTECTION ON ALL CAMERA CABLING IN TRAFFIC CONTROL CABINET.
- 4.) ALL CAMERA CABLES SHALL BE ROUTED THROUGH THE POLE UNLESS OTHERWISE NOTED ON THE PLANS.
- 5.) CONTRACTOR SHALL BE REQUIRED TO SIZE ALL POWER CONDUCTORS.
- 6.) COORDINATE WITH OEU TO TERMINATE POWER TO THE POLE DURING CAMERA INSTALLATION.
- 7.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

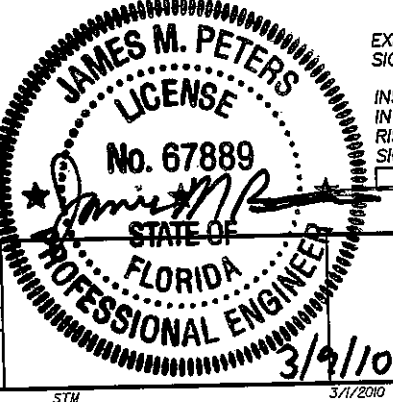
RIGHT-OF-WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH, 2009)
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REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

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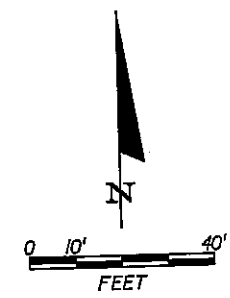
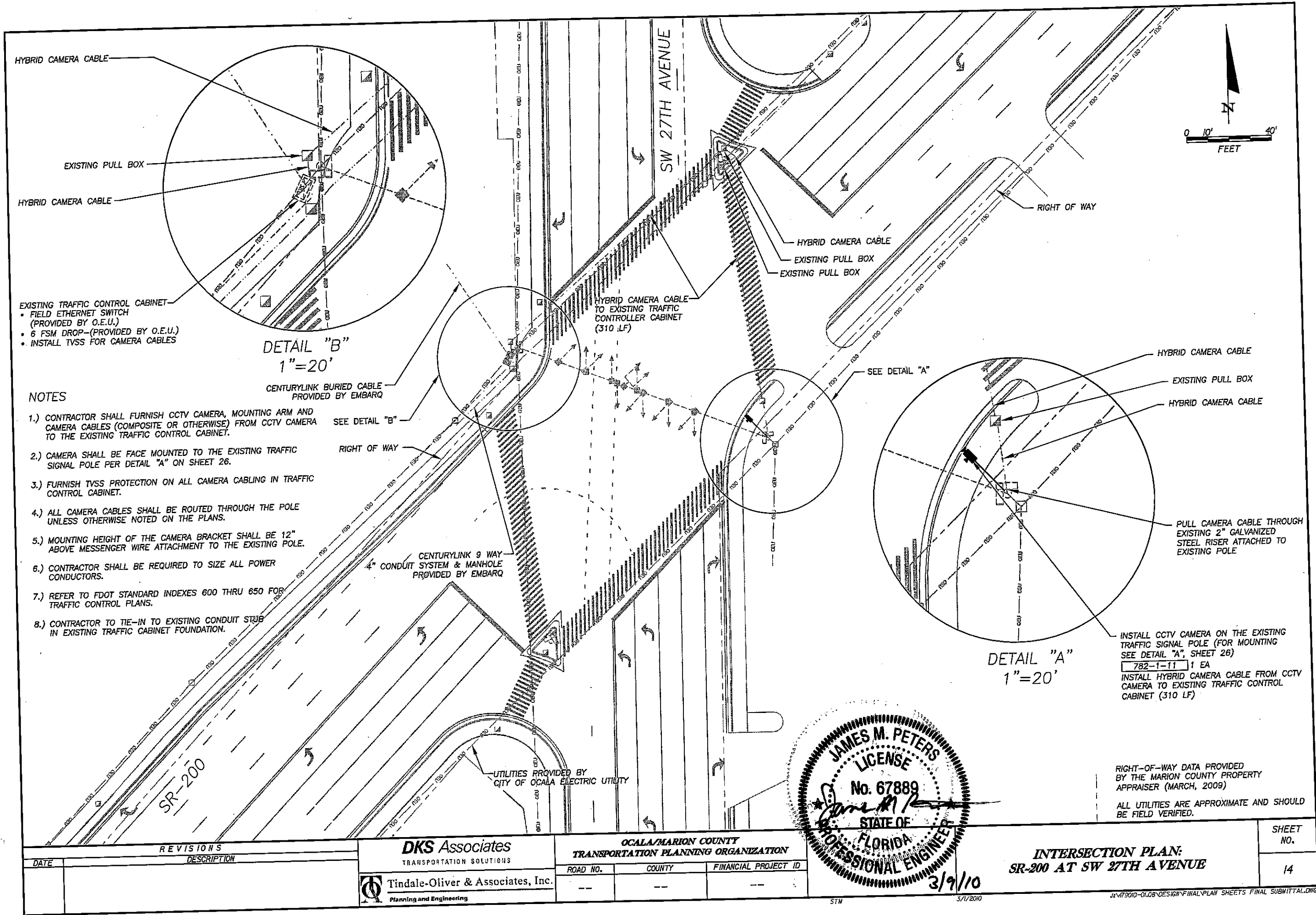
OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID



INTERSECTION PLAN:
SR-200 AT SW 32ND AVENUE

SHEET NO.
13

DETAIL "A"
1"=20'



NOTES

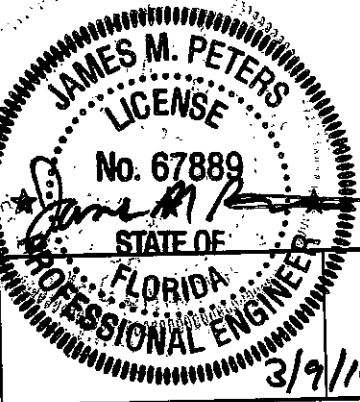
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- 3.) FURNISH TVSS PROTECTION ON ALL CAMERA CABLING IN TRAFFIC CONTROL CABINET.
- 4.) ALL CAMERA CABLES SHALL BE ROUTED THROUGH THE POLE UNLESS OTHERWISE NOTED ON THE PLANS.
- 5.) MOUNTING HEIGHT OF THE CAMERA BRACKET SHALL BE 12" ABOVE MESSENGER WIRE ATTACHMENT TO THE EXISTING POLE.
- 6.) CONTRACTOR SHALL BE REQUIRED TO SIZE ALL POWER CONDUCTORS.
- 7.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

REVISIONS	
DATE	DESCRIPTION

DKS Associates
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OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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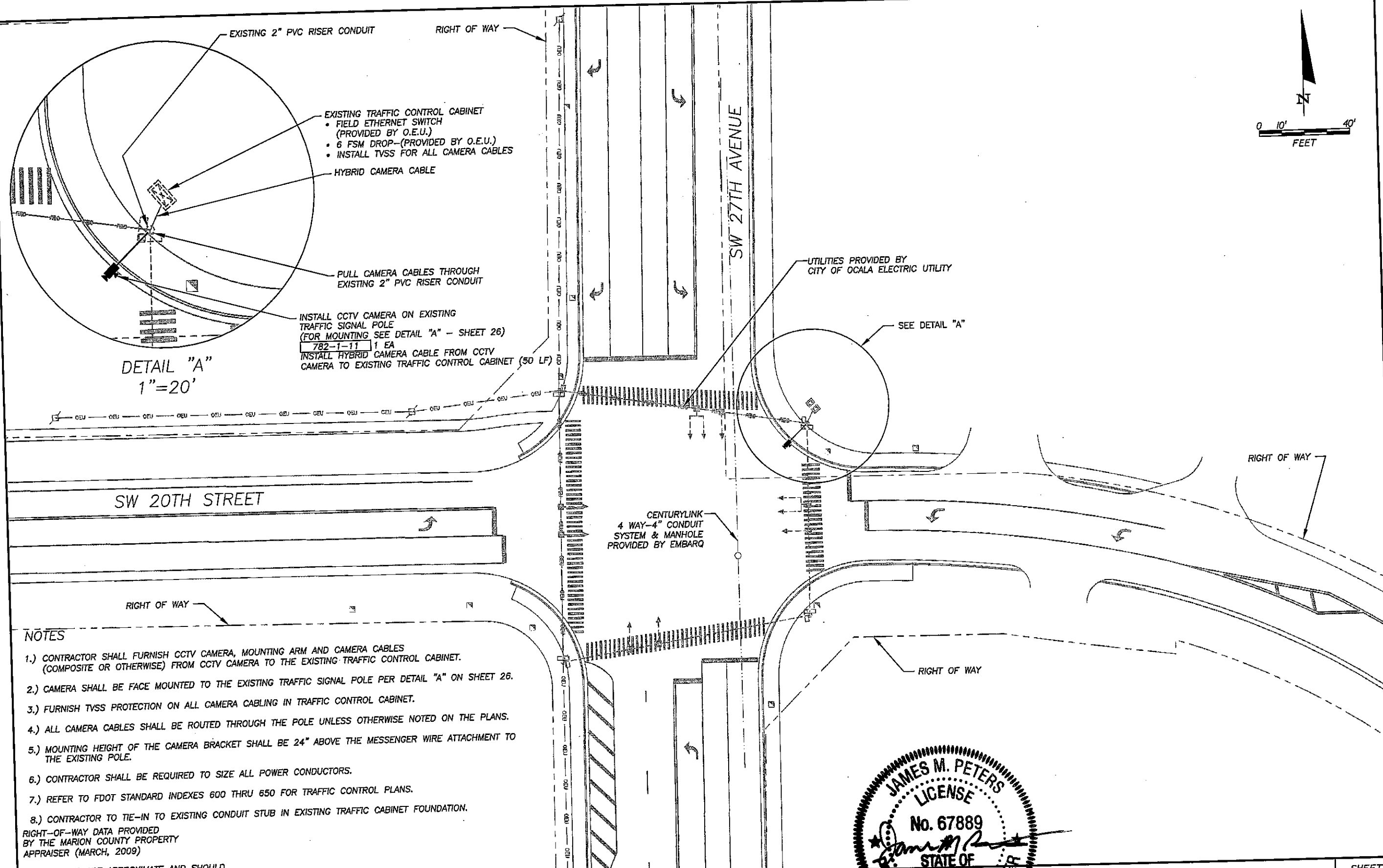
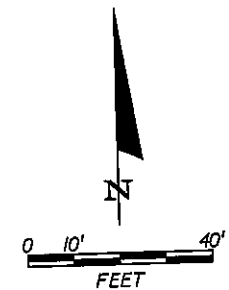
INTERSECTION PLAN:
SR-200 AT SW 27TH AVENUE

DATE: 3/9/10

SHEET NO.
14

RIGHT-OF-WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH, 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.



NOTES

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- 7.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

RIGHT-OF-WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH, 2009)

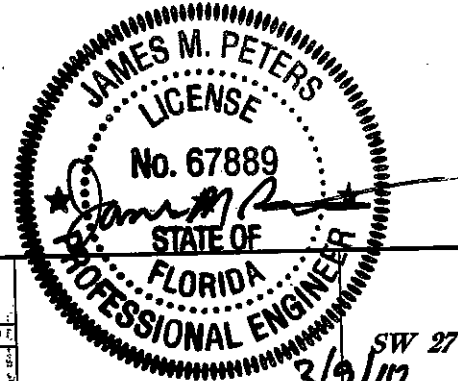
ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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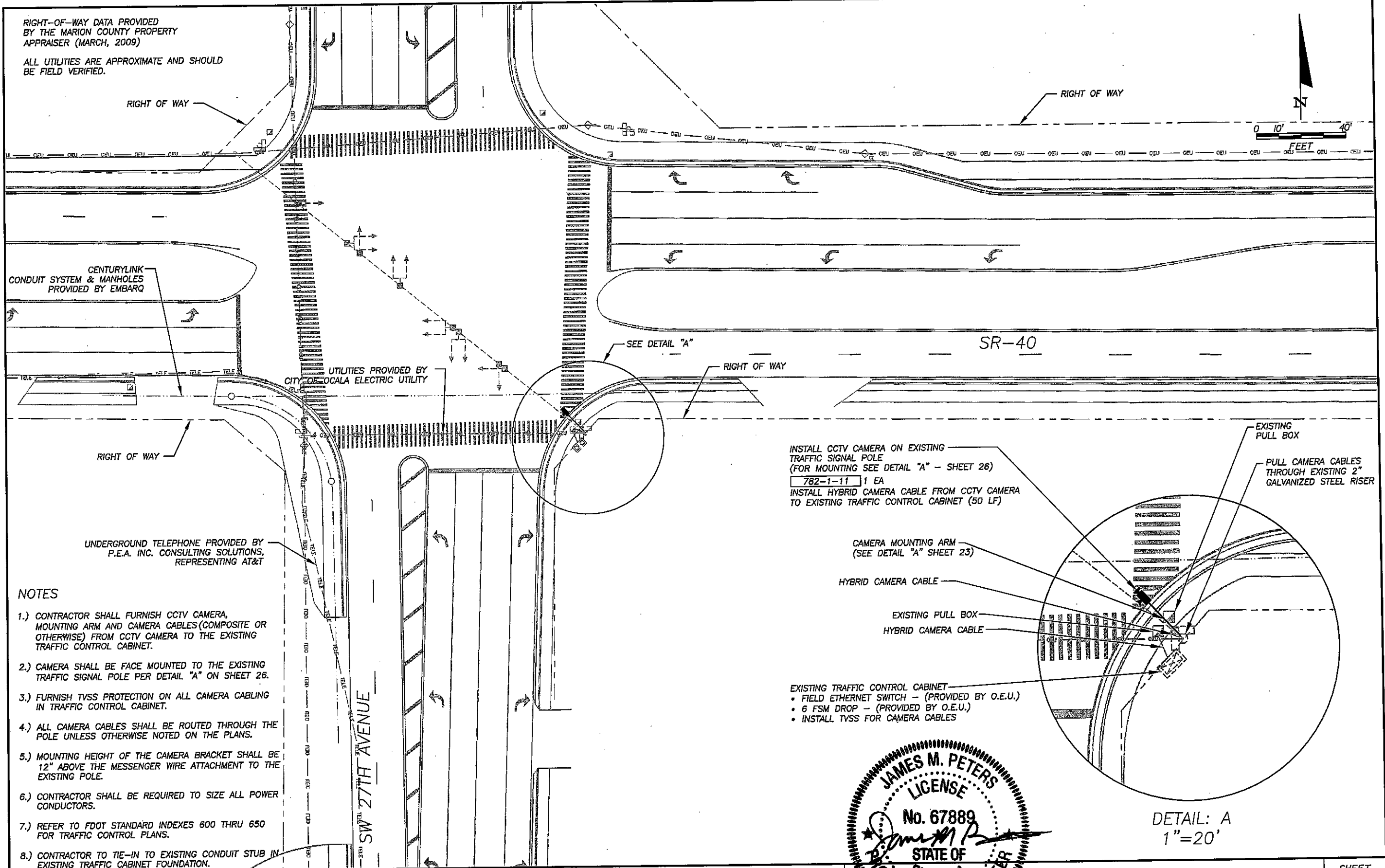


INTERSECTION PLAN:
SW 27TH AVENUE AT SW 20TH STREET

SHEET NO.
15

RIGHT-OF-WAY DATA PROVIDED
BY THE MARION COUNTY PROPERTY
APPRAISER (MARCH, 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD
BE FIELD VERIFIED.



NOTES

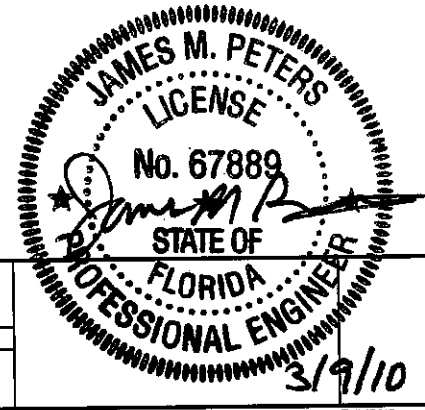
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- 2.) CAMERA SHALL BE FACE MOUNTED TO THE EXISTING TRAFFIC SIGNAL POLE PER DETAIL "A" ON SHEET 26.
- 3.) FURNISH TVSS PROTECTION ON ALL CAMERA CABLING IN TRAFFIC CONTROL CABINET.
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- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

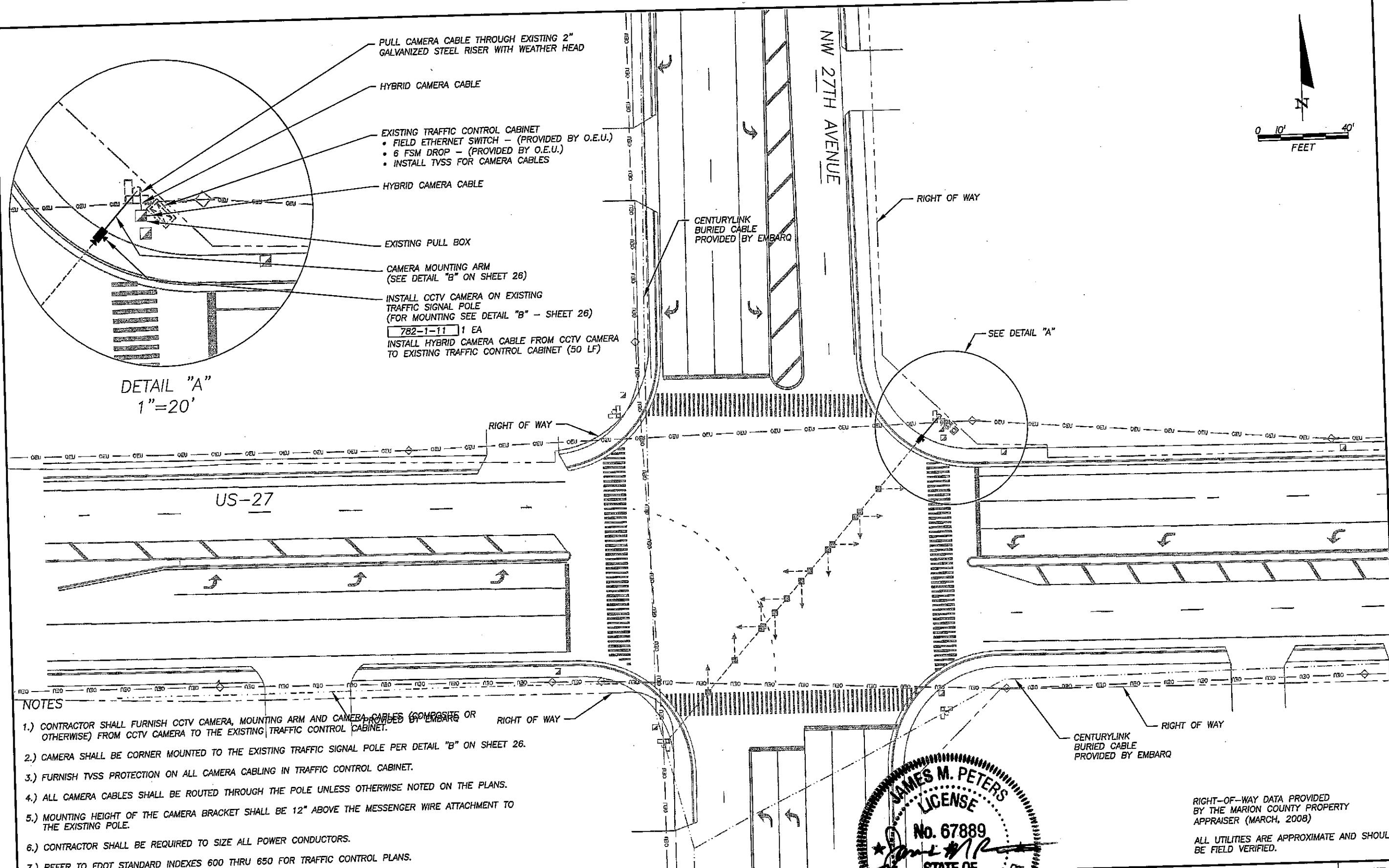
OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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DETAIL: A
1"=20'

**INTERSECTION PLAN:
SR-40 AT SW 27TH AVENUE**

SHEET
NO.
16



NOTES

- 1.) CONTRACTOR SHALL FURNISH CCTV CAMERA, MOUNTING ARM AND CAMERA CABLES (COMPOSITE OR OTHERWISE) FROM CCTV CAMERA TO THE EXISTING TRAFFIC CONTROL CABINET.
- 2.) CAMERA SHALL BE CORNER MOUNTED TO THE EXISTING TRAFFIC SIGNAL POLE PER DETAIL "B" ON SHEET 26.
- 3.) FURNISH TVSS PROTECTION ON ALL CAMERA CABLING IN TRAFFIC CONTROL CABINET.
- 4.) ALL CAMERA CABLES SHALL BE ROUTED THROUGH THE POLE UNLESS OTHERWISE NOTED ON THE PLANS.
- 5.) MOUNTING HEIGHT OF THE CAMERA BRACKET SHALL BE 12" ABOVE THE MESSENGER WIRE ATTACHMENT TO THE EXISTING POLE.
- 6.) CONTRACTOR SHALL BE REQUIRED TO SIZE ALL POWER CONDUCTORS.
- 7.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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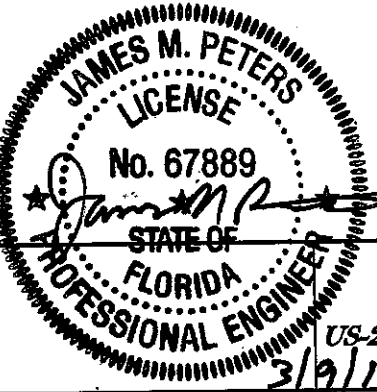
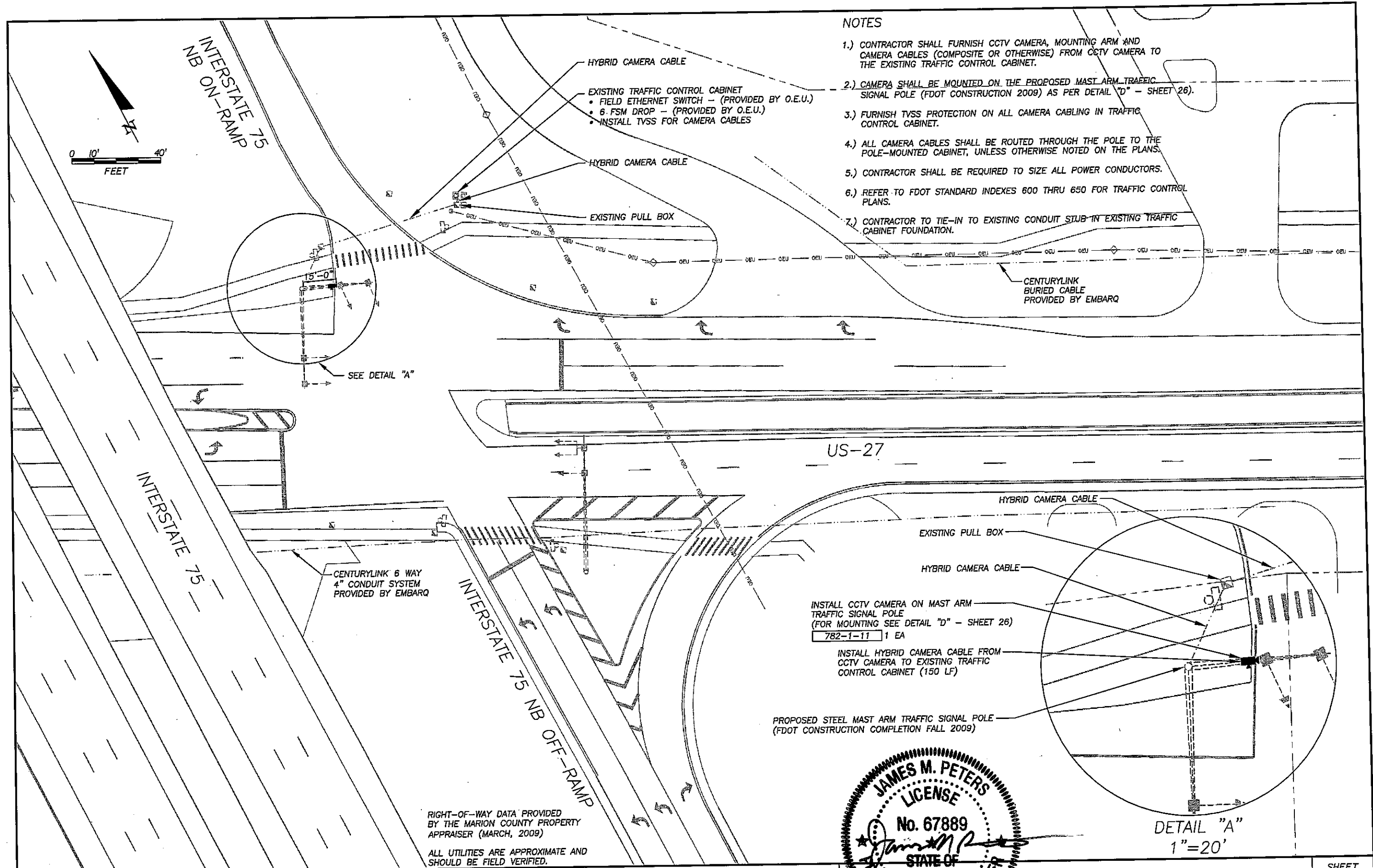
JAMES M. PETERS
LICENSE
No. 67889
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
3/9/10

INTERSECTION PLAN:
US-27 AT NW 27TH AVENUE

SHEET NO.
17

RIGHT-OF-WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH, 2008)

ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.



REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

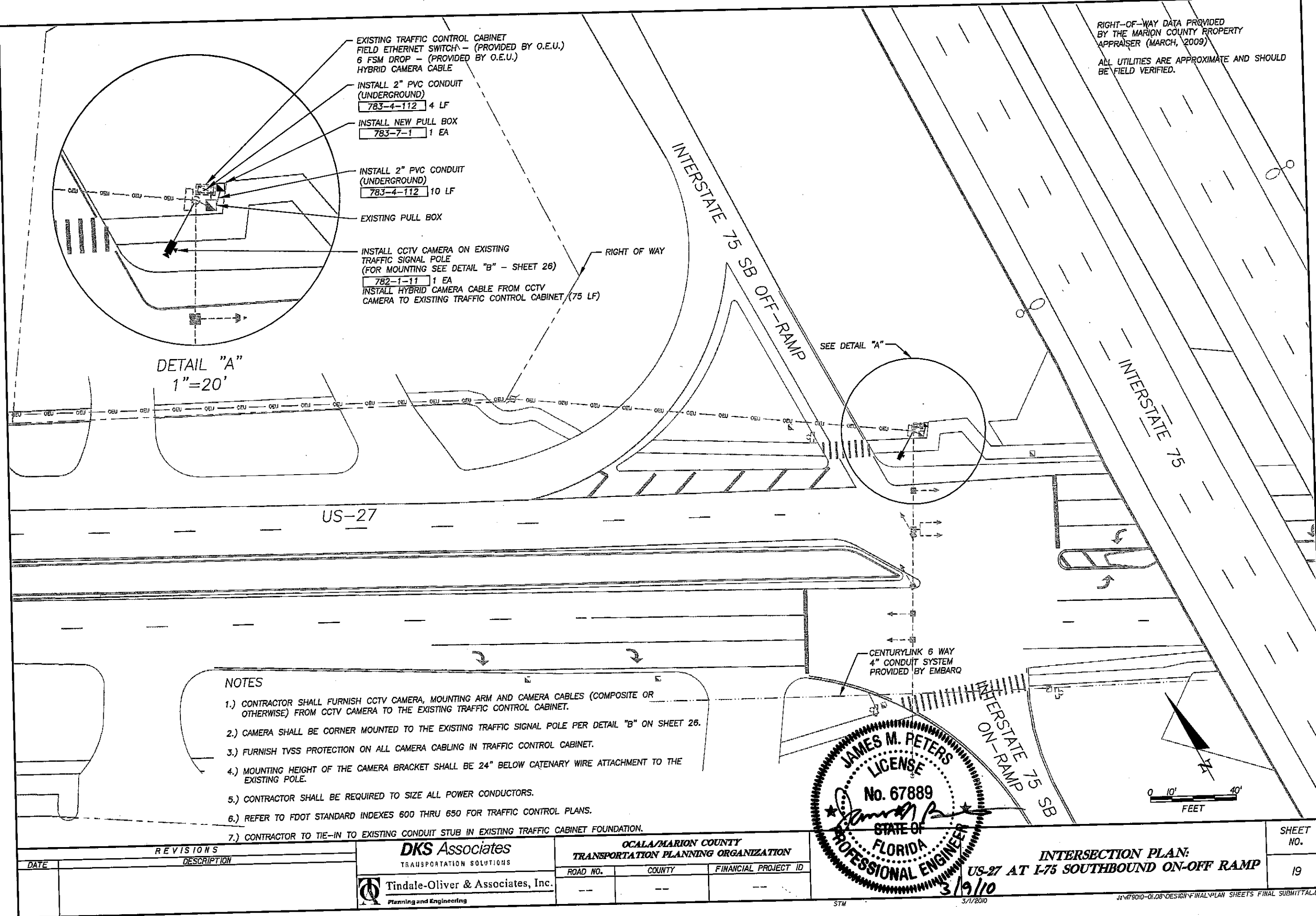
OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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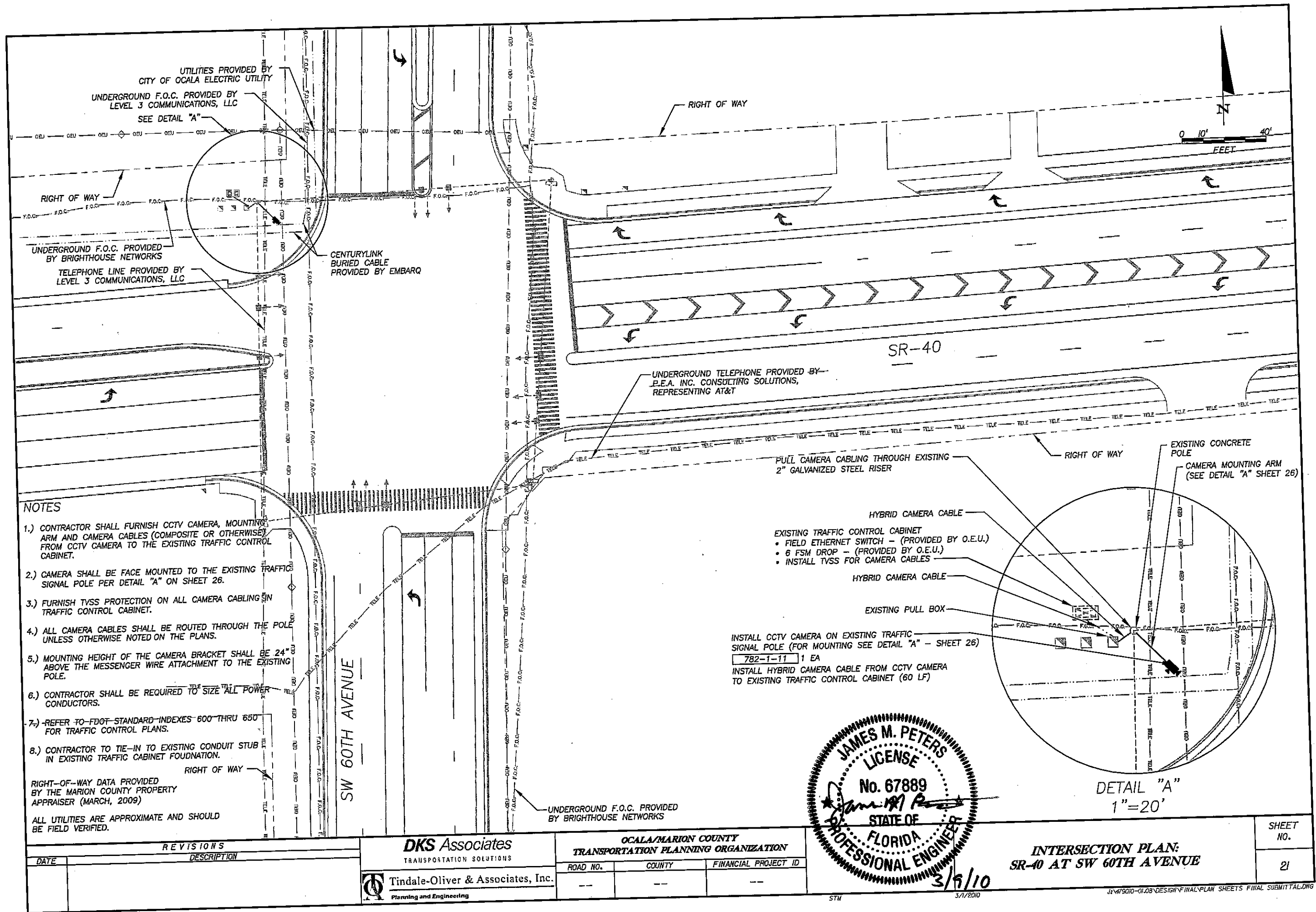
INTERSECTION PLAN:
US-27 AT I-75 NORTHBOUND ON-OFF RAMP

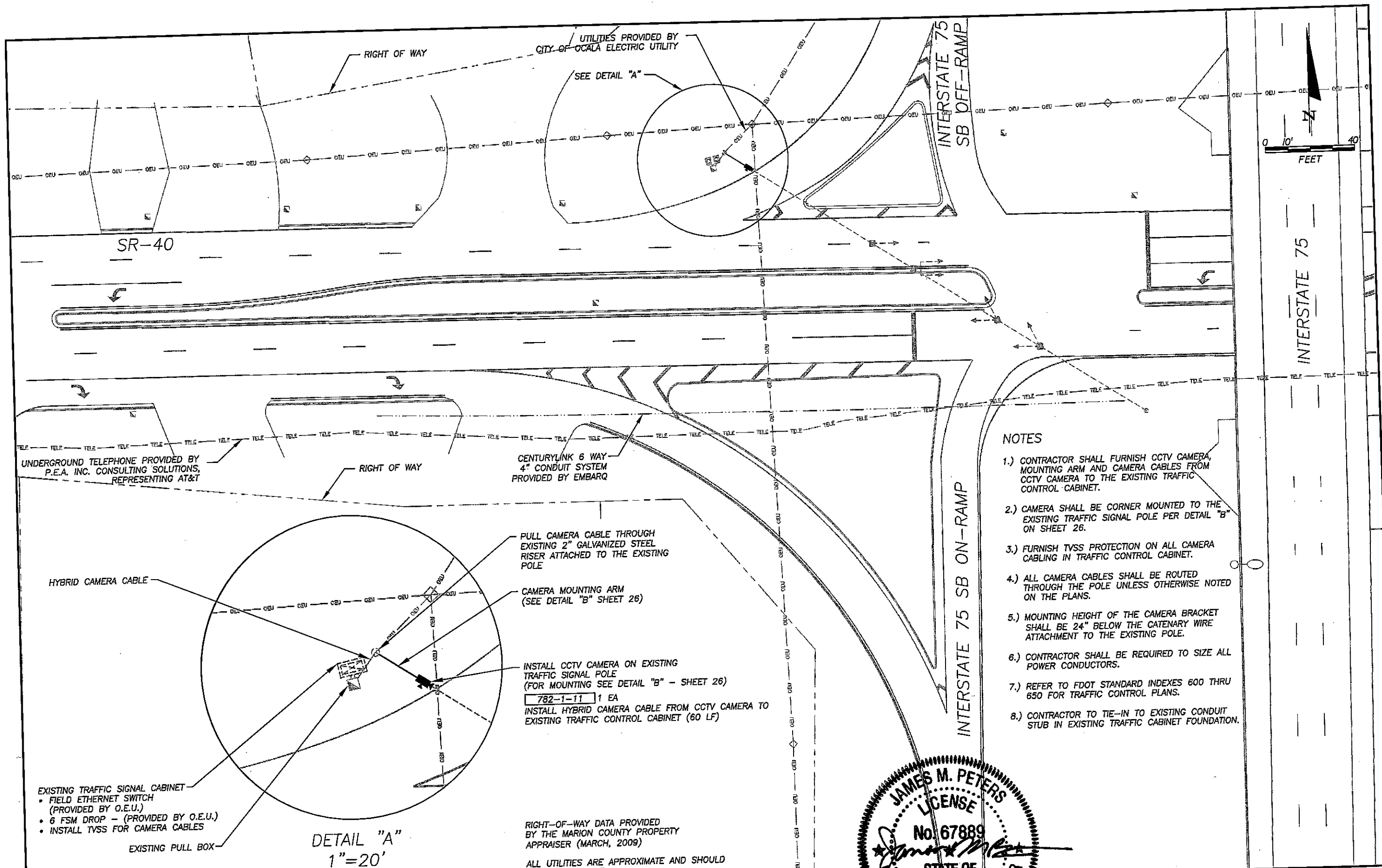
3/9/10

SHEET NO.
18

RIGHT-OF-WAY DATA PROVIDED
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APPRAISER (MARCH, 2009)
ALL UTILITIES ARE APPROXIMATE AND SHOULD
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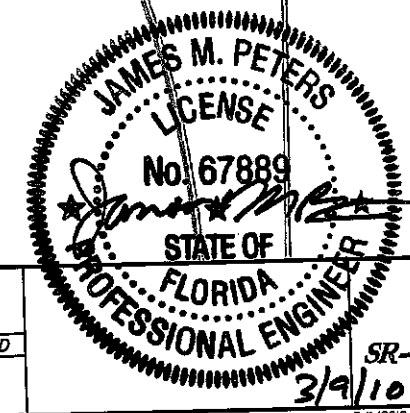






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- 4.) ALL CAMERA CABLES SHALL BE ROUTED THROUGH THE POLE UNLESS OTHERWISE NOTED ON THE PLANS.
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- 7.) REFER TO FDOT STANDARD INDEXES 600 THRU 650 FOR TRAFFIC CONTROL PLANS.
- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.



REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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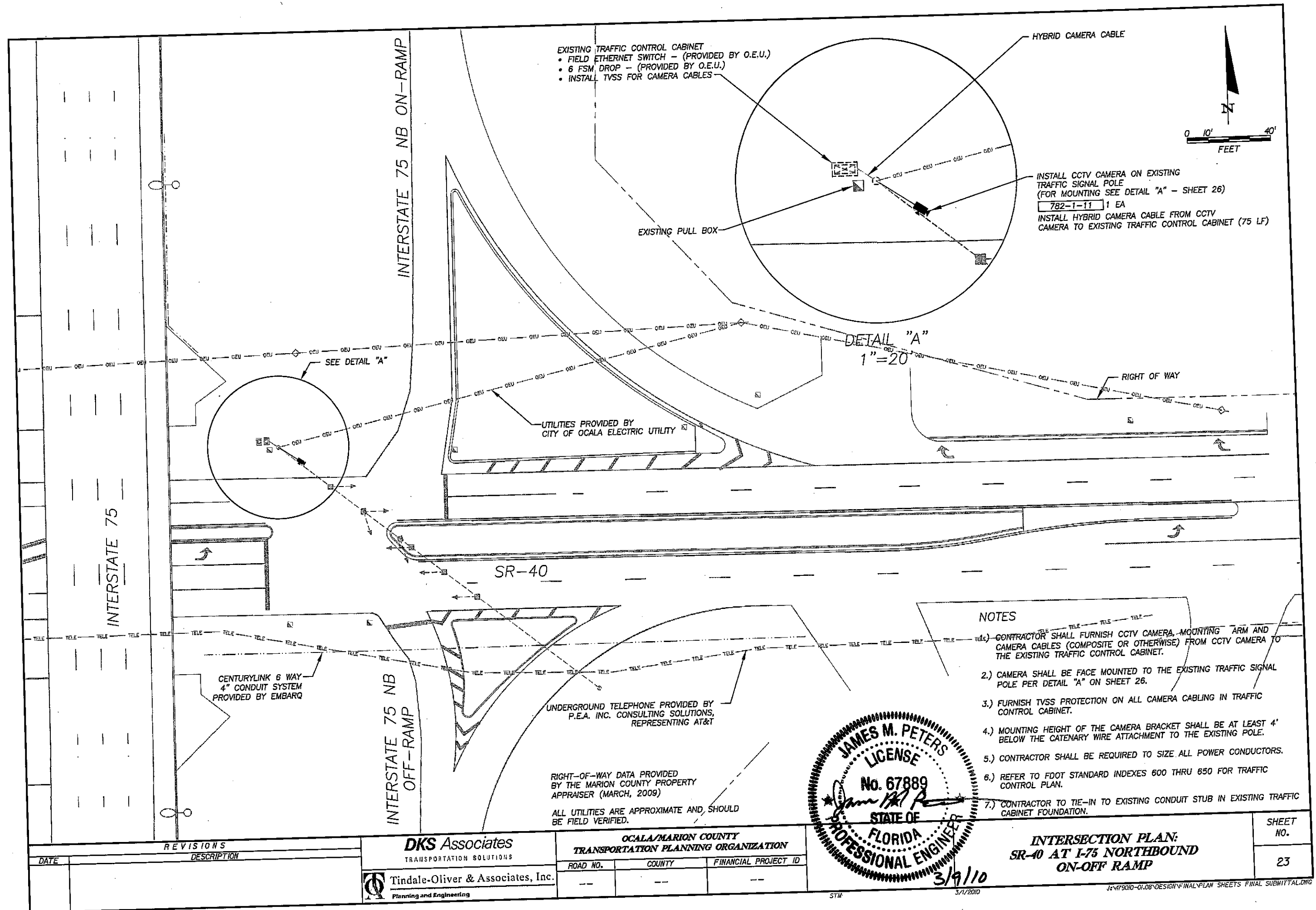
INTERSECTION PLAN:
SR-40 AT I-75 SOUTHBOUND ON-OFF RAMP

SHEET NO.
22

STM

3/1/2010

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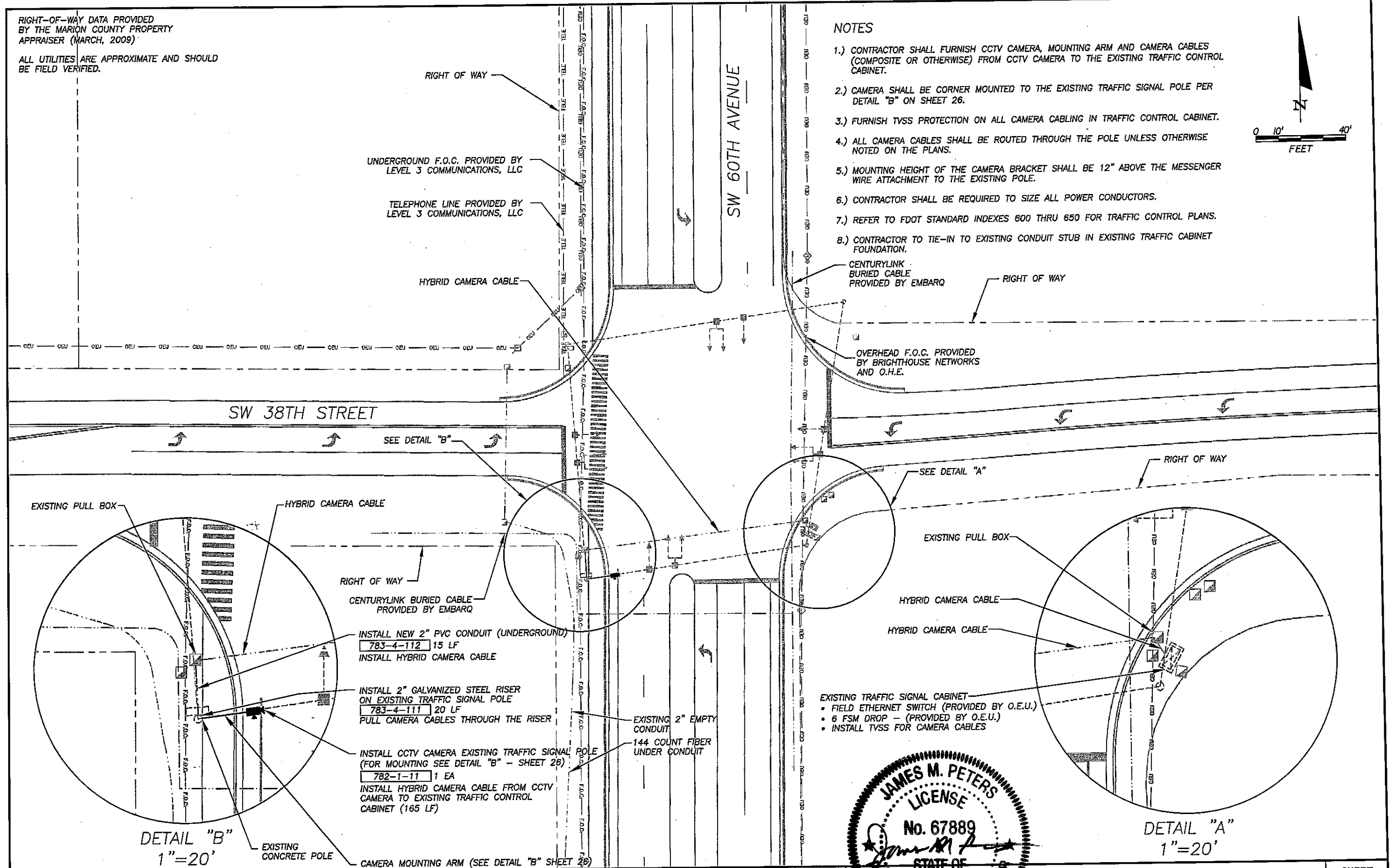
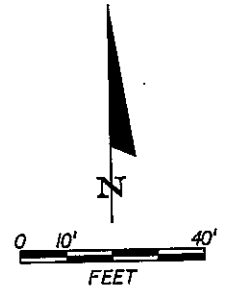


RIGHT-OF-WAY DATA PROVIDED
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- 8.) CONTRACTOR TO TIE-IN TO EXISTING CONDUIT STUB IN EXISTING TRAFFIC CABINET FOUNDATION.



DETAIL "B"
1"=20'

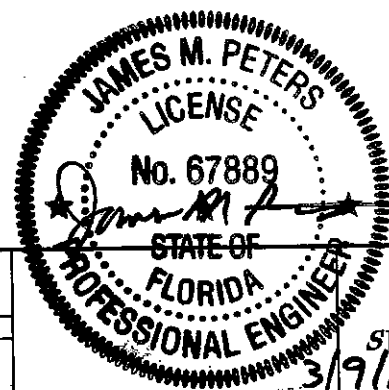
DETAIL "A"
1"=20'

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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INTERSECTION PLAN:
SW 60TH AVENUE AT SW 38TH STREET

SHEET
NO.

24

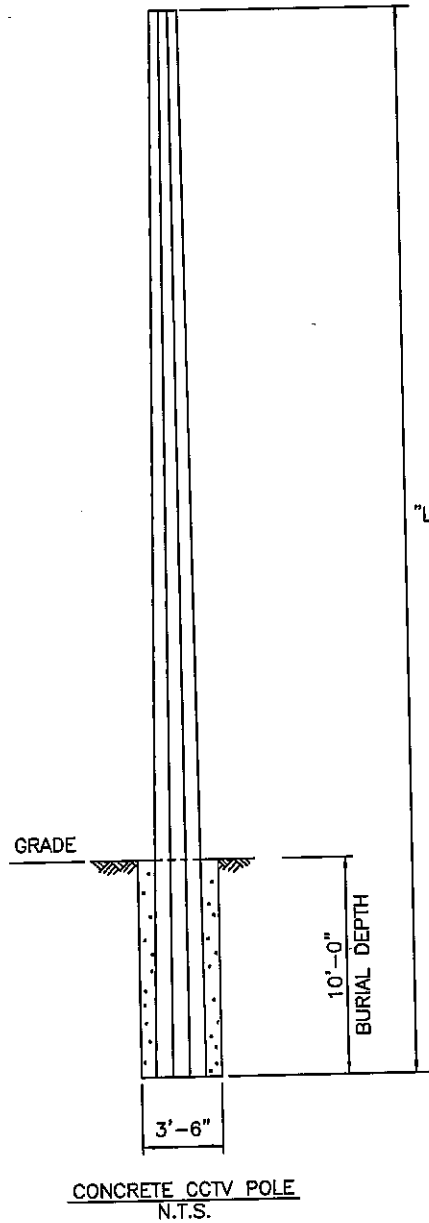
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3/12/2010

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POLE SCHEDULE

LOCATION	STATION	L	W	POLE CLASS	ITEM NO.
SEE PLAN SHEETS FOR LOCATIONS	N.A.	46 FT	4691LB	G	785-1-11



NOTES:

1. CONTRACTOR SHALL WORK THIS SHEET WITH INDEX 18113 AND FOLLOW THE REQUIREMENTS OF INDEX 18113.
2. ASSUMED SOIL CONDITIONS ARE AS FOLLOWS:

AVERAGED SOIL SATURATED UNIT WEIGHT (pcf) 120.0
ANGLE OF INTERNAL FRICTION (DEGREE) 30.0

THE CONTRACTOR'S ENGINEER SHALL VERIFY WHETHER THIS GEOTECHNICAL INFORMATION IS APPROPRIATE FOR FOUNDATION DESIGN PRIOR TO USING IT FOR FOUNDATION DESIGN.
3. ESTIMATED SEASONAL HIGH GROUNDWATER TABLE LEVELS ARE EXPECTED TO BE AT EXISTING GRADE TO ONE FOOT BELOW GROUND SURFACE. BASED ON THE SUBSURFACE CONDITIONS ENCOUNTERED, THE CONTRACTOR SHOULD ANTICIPATE THE NEED FOR TEMPORARY CASING TO PREVENT COLLAPSE OF THE SANDY SOILS DURING THE SHAFT EXCAVATION PROCESS. AN ENVIRONMENTAL CLASSIFICATION OF EXTREMELY AGGRESSIVE IS EXPECTED.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CAPACITY CALCULATIONS FOR THE PROPOSED POLE AND SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. SHOP DRAWINGS SHALL BE IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
6. SHOP DRAWINGS SHALL BE SENT TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION:

THOMAS E. SLAUGHTER, JR., P.E.
FLORIDA REGISTRATION NUMBER 38833
MAP ENGINEERING COMPANY
550 NORTH REO STREET, SUITE 300
TAMPA, FLORIDA 33609 (PHONE 813/261-5013)
C.A. 6772
7. FOUNDATION CONCRETE SHALL BE CLASS IV, 4000 PSI MINIMUM.

TH
3/12/2010

MAP ENGINEERING COMPANY
550 N. REO STREET, SUITE 300
TAMPA, FL 33609
813-261-5013

REVISIONS		DATE	DESCRIPTION	DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			CONCRETE CCTV POLE WITH FOUNDATION	SHEET NO.
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		25
				 Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--		

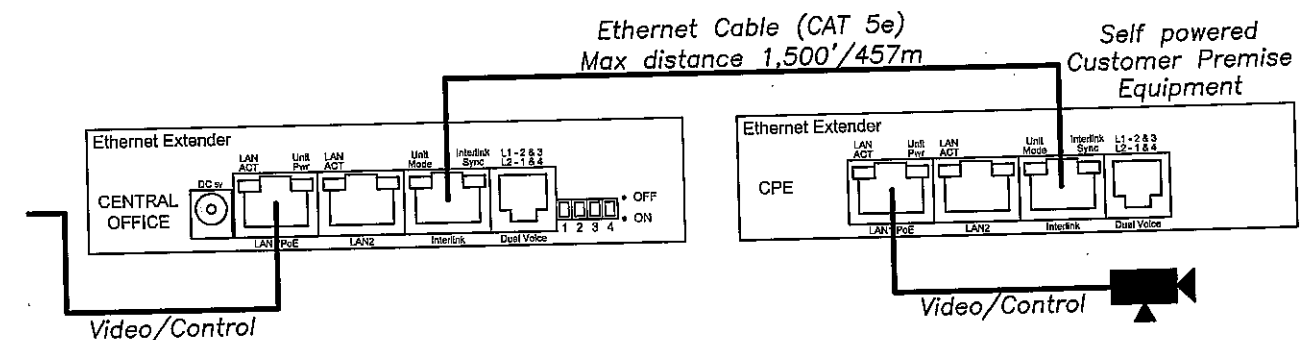
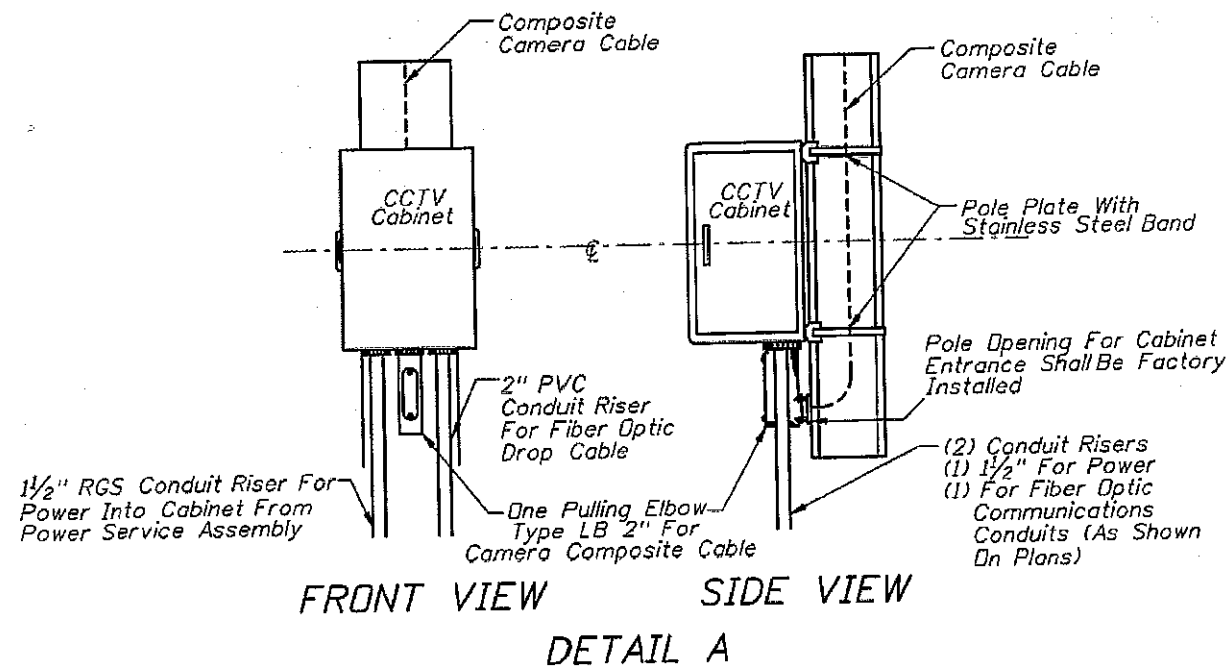
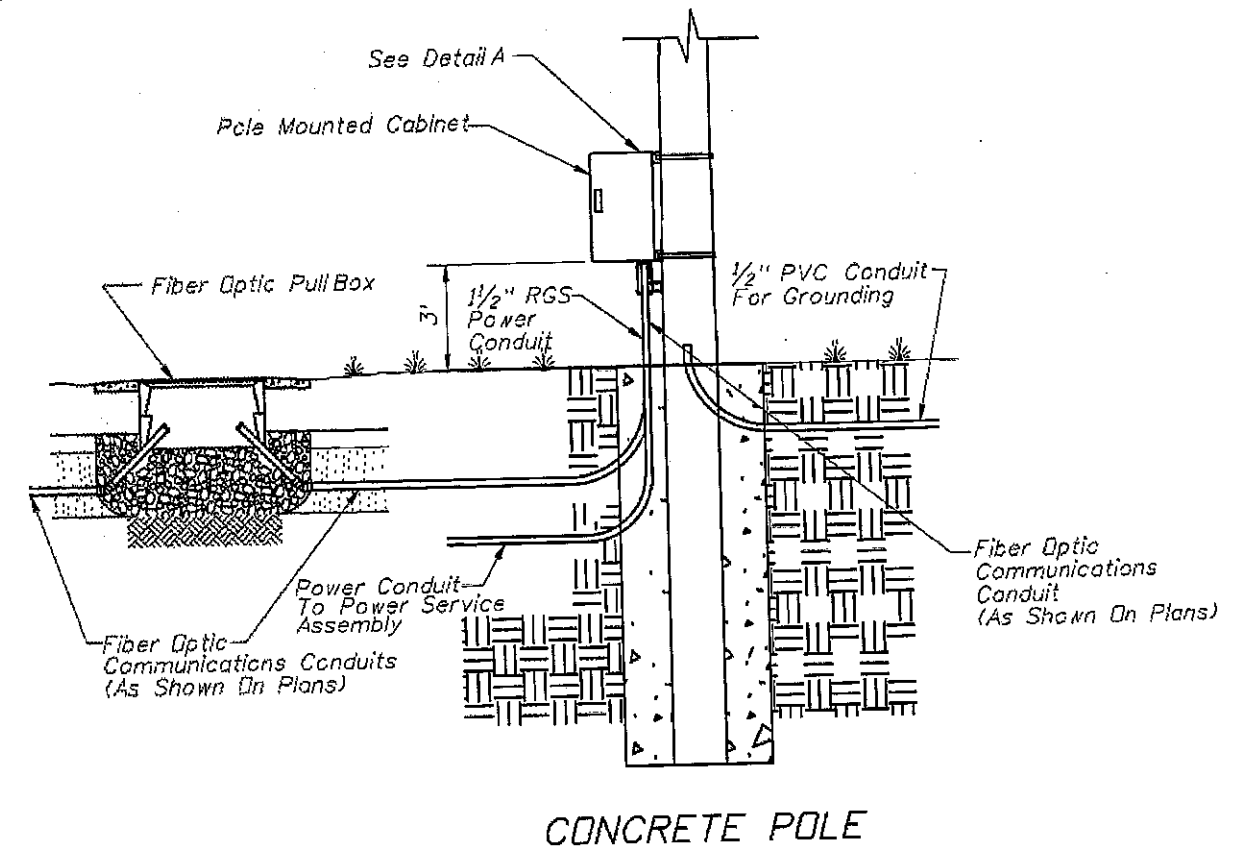
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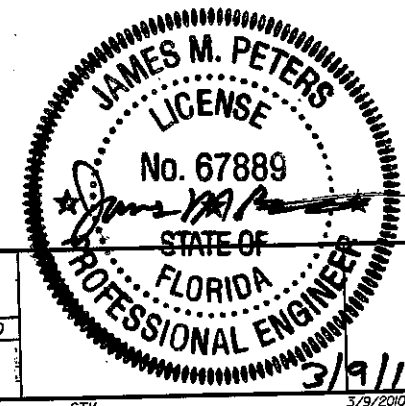
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GENERAL NOTES:

1. Furnish and install TVSS protection on all cabling in cabinet.
2. Furnish and install secondary TVSS protection on outlets for equipment in cabinet.
3. Sizes and types of conduits and innerducts for network communications between the pull box and cabinet are stated in the contract documents.
4. Ensure that equipment cabinet is bonded to CCTV pole grounding system
5. All network communications conduits and ducts shall be sealed with approved waterproof duct plugs and seals.
6. Pole mounted cabinets shall be mounted with hinges next to the pole.



ETHERNET EXTENDER



CONCRETE POLE WITH POLE MOUNTED CABINET FOR ETHERNET EXTENDER

SHEET NO.

27

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS
Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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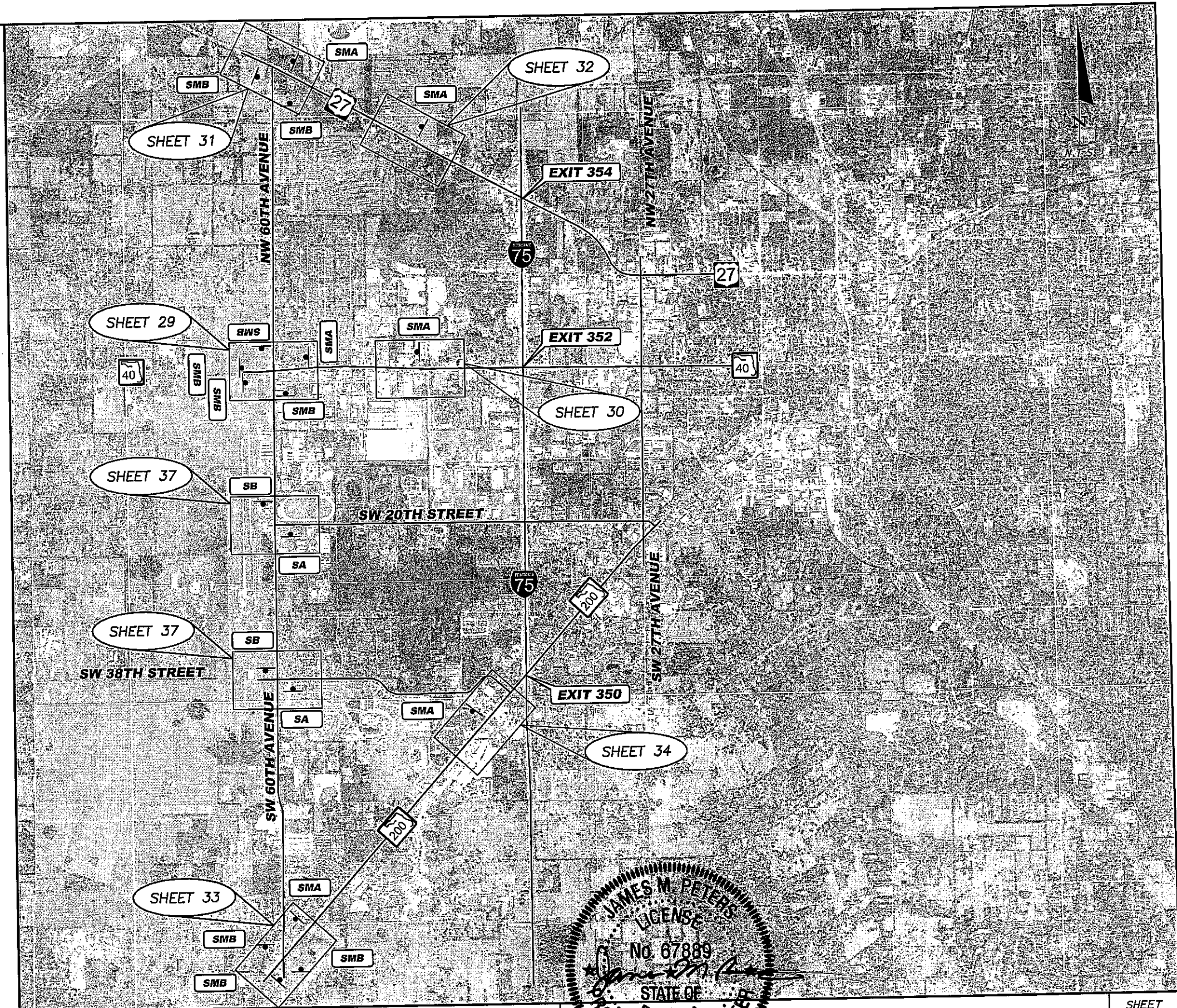
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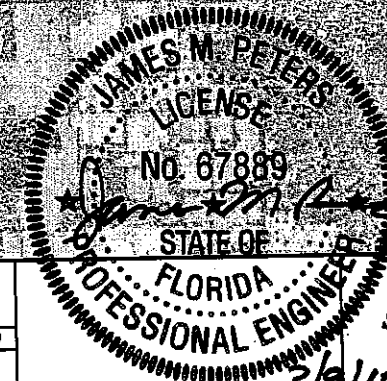
LEGEND

• **SX** STATIC SIGN

• **SMX** DYNAMIC ROUTE GUIDANCE SIGN (SMX) WITH ACTIVE FLASHING BEACON



REVISIONS		DKS Associates		OCALA/MARION COUNTY		FLORIDA PROFESSIONAL ENGINEER 3/9/10	SCROLLING MYLAR AND STATIC SIGN KEY MAP	SHEET NO. 28
DATE	DESCRIPTION	TRANSPORTATION SOLUTIONS		TRANSPORTATION PLANNING ORGANIZATION				
			Tindale-Oliver & Associates, Inc.		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			Planning and Engineering		--	--	--	
						STM	3/9/2010	J:\479010-01.05\DESIGN\FINAL\Sheet 28.DWG



STM

3/9/2010

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1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL YAGI ANTENNA, 900 MHz SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 42) [784-6-13] 1 EA
3. INSTALL SOLAR PANEL, BATTERIES, CHARGER AND CONNECTING CABLES [780-1-11] 1 AS
4. INSTALL POLE MOUNTED CABINET (TYPE III) TO HOUSE WIRELESS RADIO EQUIPMENT, SIGN CONTROLLER AND SOLAR POWER RELATED EQUIPMENT [668-13] 1 EA

1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL STATIC SIGN "WHEN FLASHING" BENEATH THE GUIDE SIGN [700-48-19] 1 EA
3. INSTALL SOLAR FLASHING BEACON CONTROLLER ASSEMBLY [700-90-11] 1 AS
4. INSTALL YAGI ANTENNA, 900 MHz SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 36) [784-6-13] 1 EA
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2. 6 FSM FIBER DROP & ETHERNET SWITCH (BY OEU)
1. MOUNT OMNI DIRECTIONAL ANTENNA 3' BELOW THE TOP OF THE POLE (OR IN AN APPROPRIATE LOCATION ON TOP OF THE POLE TO AVOID ANY CONFLICTS WITH THE EXISTING CABLES) (PAID UNDER [784-6-11])
2. 2" DIA. IMC (GALVANIZED STEEL) RISER WITH WEATHERHEAD. [783-4-11] 20 FEET
3. LMR CABLE CONNECTING OMNI ANTENNA TO LIGHTNING PROTECTOR IN THE CONTROLLER CABINET (40 FEET) (PAID UNDER [784-6-11])

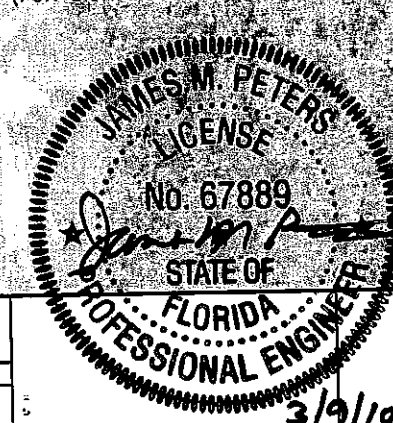
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AERIAL AND RIGHT OF WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH 2009)

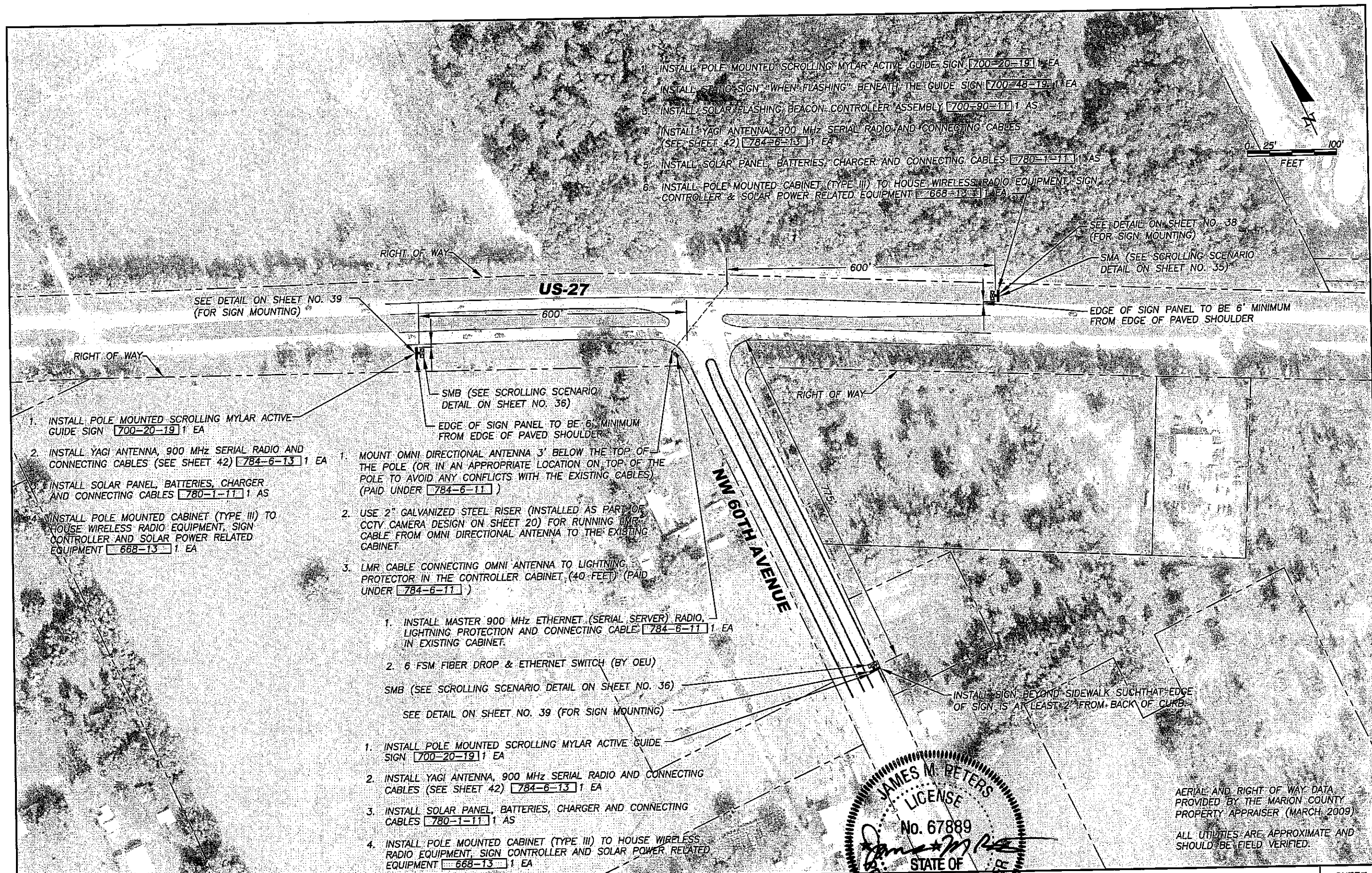
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REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SHEET NO.
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
		Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--	29

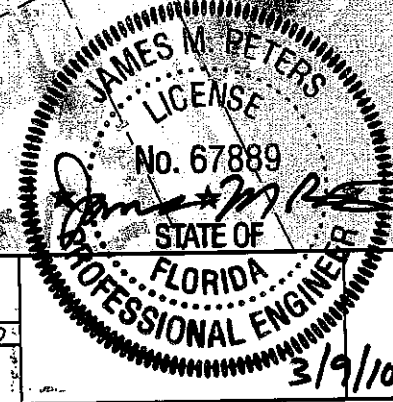
SR-40 AT NW 60TH AVENUE
SCROLLING MYLAR DETAIL SHEET

3/9/10

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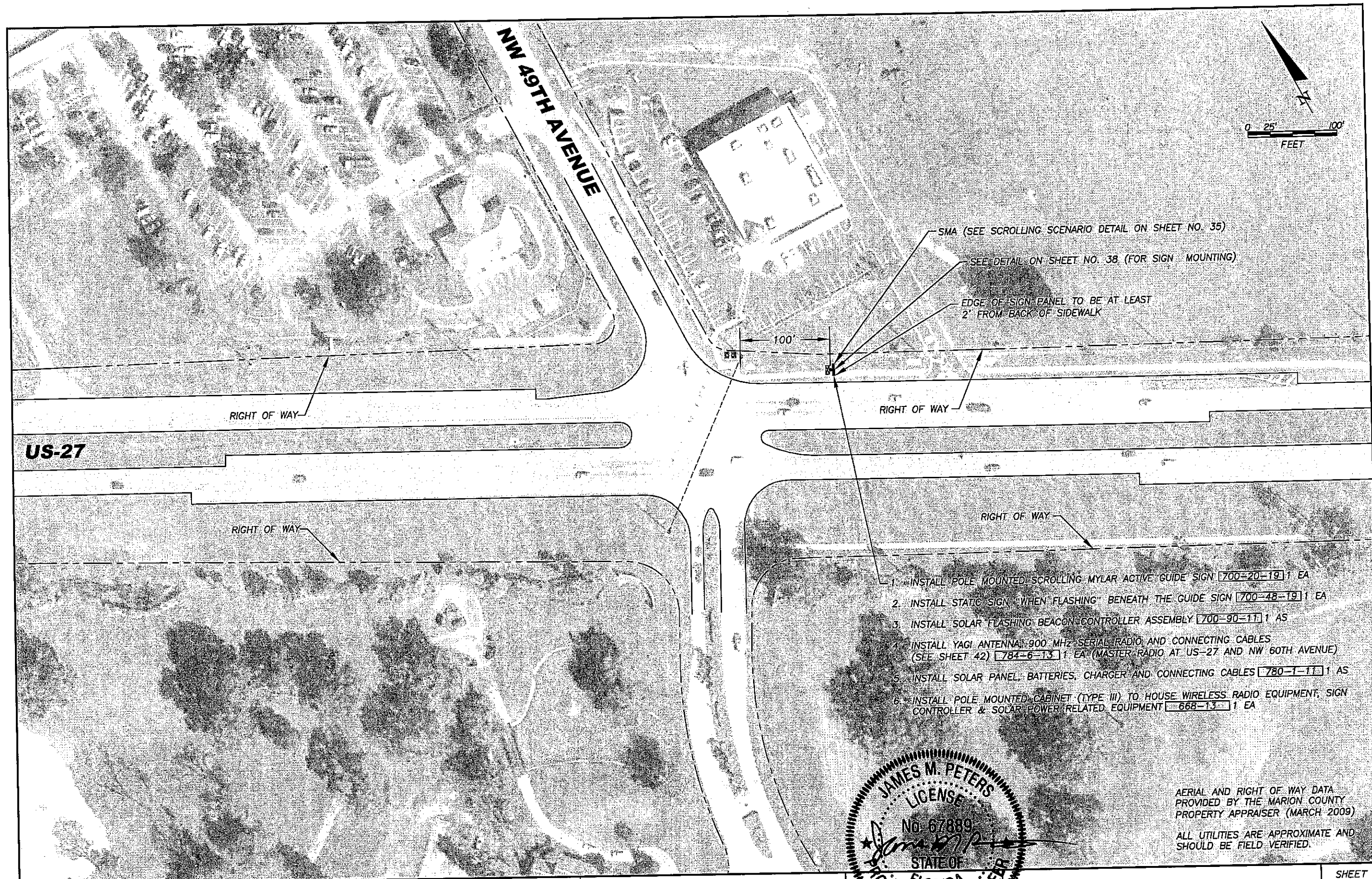
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DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
		Tindale-Oliver & Associates, Inc. Planning and Engineering				



**US-27 AT NW 60TH AVENUE
SCROLLING MYLAR DETAIL SHEET**

AERIAL AND RIGHT OF WAY DATA
PROVIDED BY THE MARION COUNTY
PROPERTY APPRAISER (MARCH 2009)

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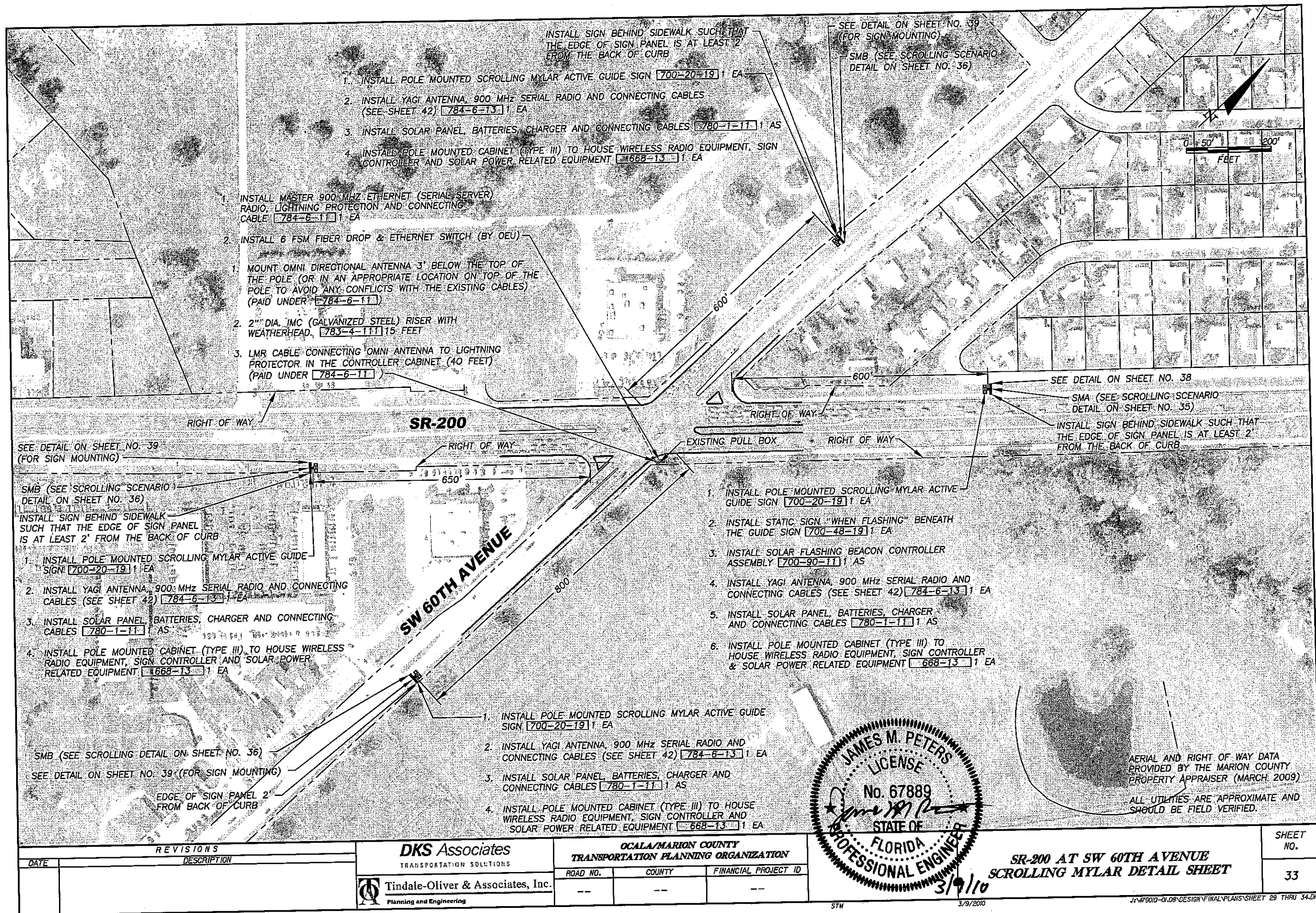


REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			US-27 AT NW 49TH AVENUE SCROLLING MYLAR DETAIL SHEET	SHEET NO. 32
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--		

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1. MOUNT OMNI DIRECTIONAL ANTENNA 3' BELOW THE TOP OF THE POLE (OR IN AN APPROPRIATE LOCATION ON TOP OF THE POLE TO AVOID ANY CONFLICTS WITH THE EXISTING CABLES) (PAID UNDER [784-6-11])
2. 2" DIA. IMC (GALVANIZED STEEL) RISER WITH WEATHERHEAD, [783-4-11] 15 FEET
3. LMR CABLE CONNECTING OMNI ANTENNA TO LIGHTNING PROTECTOR IN THE CONTROLLER CABINET (40 FEET) (PAID UNDER [784-6-11])

SEE DETAIL ON SHEET NO. 39 (FOR SIGN MOUNTING)

SMB (SEE SCROLLING SCENARIO DETAIL ON SHEET NO. 36)

INSTALL SIGN BEHIND SIDEWALK SUCH THAT THE EDGE OF SIGN PANEL IS AT LEAST 2' FROM THE BACK OF CURB

1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL YAGI ANTENNA, 900 MHZ SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 42) [784-6-13] 1 EA
3. INSTALL SOLAR PANEL, BATTERIES, CHARGER AND CONNECTING CABLES [780-1-11] 1 AS
4. INSTALL POLE MOUNTED CABINET (TYPE III) TO HOUSE WIRELESS RADIO EQUIPMENT, SIGN CONTROLLER AND SOLAR POWER RELATED EQUIPMENT [668-13] 1 EA

SMB (SEE SCROLLING DETAIL ON SHEET NO. 36)

SEE DETAIL ON SHEET NO. 39 (FOR SIGN MOUNTING)

EDGE OF SIGN PANEL 2' FROM BACK OF CURB

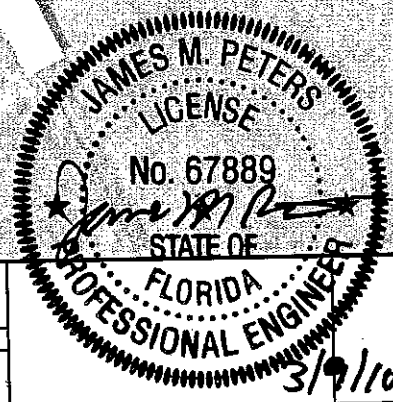
1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL YAGI ANTENNA, 900 MHZ SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 42) [784-6-13] 1 EA
3. INSTALL SOLAR PANEL, BATTERIES, CHARGER AND CONNECTING CABLES [780-1-11] 1 AS
4. INSTALL POLE MOUNTED CABINET (TYPE III) TO HOUSE WIRELESS RADIO EQUIPMENT, SIGN CONTROLLER AND SOLAR POWER RELATED EQUIPMENT [668-13] 1 EA

1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL STATIC SIGN "WHEN FLASHING" BENEATH THE GUIDE SIGN [700-48-19] 1 EA
3. INSTALL SOLAR FLASHING BEACON CONTROLLER ASSEMBLY [700-90-11] 1 AS
4. INSTALL YAGI ANTENNA, 900 MHZ SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 42) [784-6-13] 1 EA
5. INSTALL SOLAR PANEL, BATTERIES, CHARGER AND CONNECTING CABLES [780-1-11] 1 AS
6. INSTALL POLE MOUNTED CABINET (TYPE III) TO HOUSE WIRELESS RADIO EQUIPMENT, SIGN CONTROLLER & SOLAR POWER RELATED EQUIPMENT [668-13] 1 EA

SEE DETAIL ON SHEET NO. 38

SMA (SEE SCROLLING SCENARIO DETAIL ON SHEET NO. 35)

INSTALL SIGN BEHIND SIDEWALK SUCH THAT THE EDGE OF SIGN PANEL IS AT LEAST 2' FROM THE BACK OF CURB



AERIAL AND RIGHT OF WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH 2009)

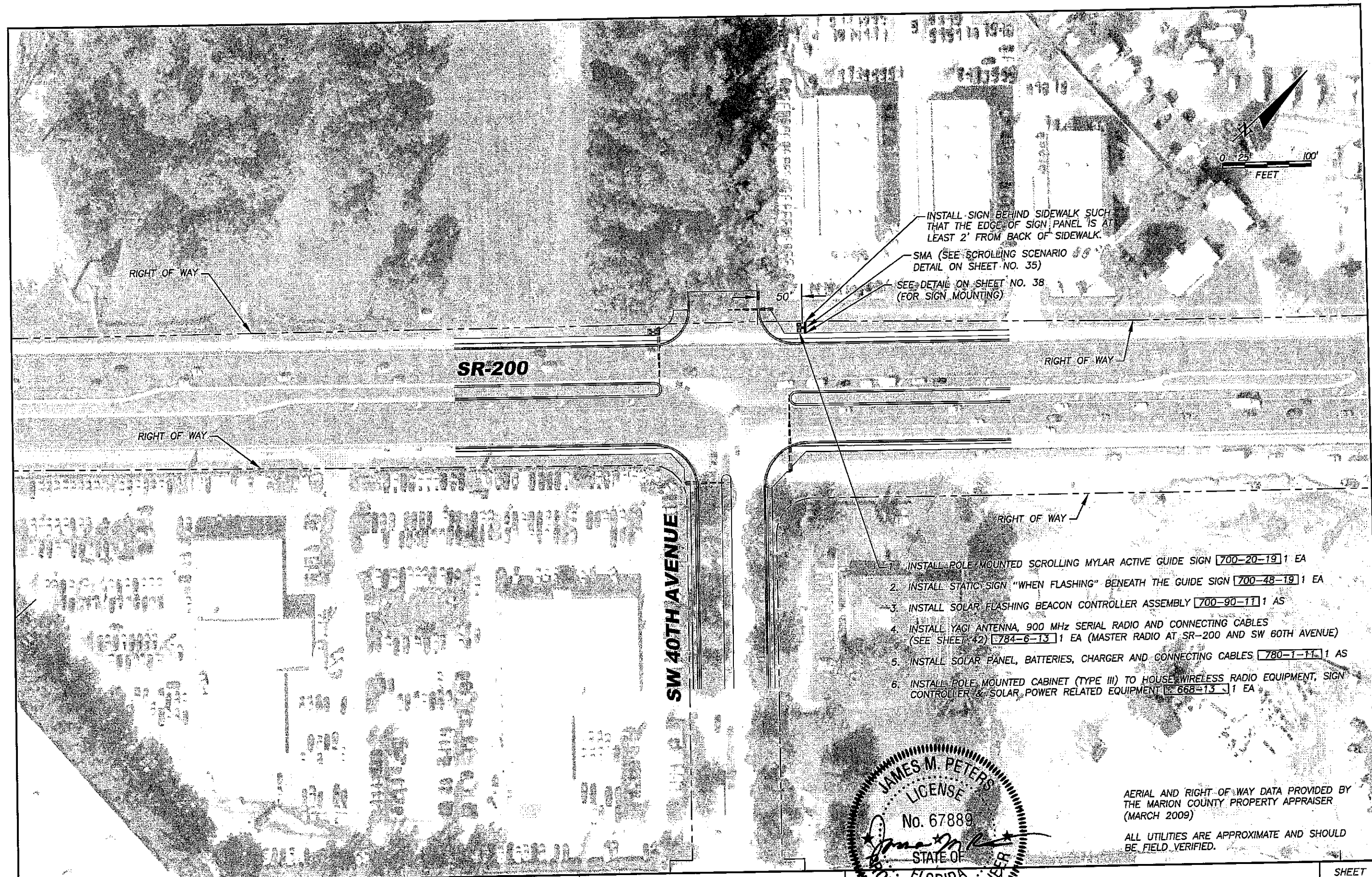
ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED

REVISIONS	
DATE	DESCRIPTION

DKS Associates TRANSPORTATION SOLUTIONS		OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION	
Tindale-Oliver & Associates, Inc. Planning and Engineering		ROAD NO.	COUNTY
		---	---
		FINANCIAL PROJECT ID	

SR-200 AT SW 60TH AVENUE
SCROLLING MYLAR DETAIL SHEET

SHEET NO.
33

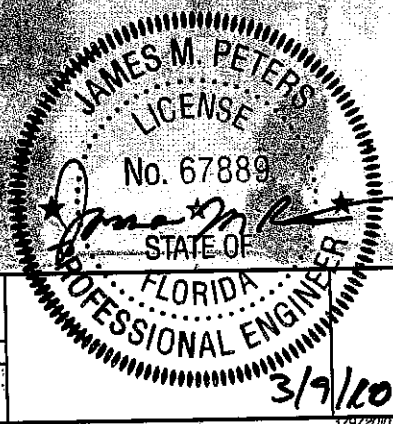


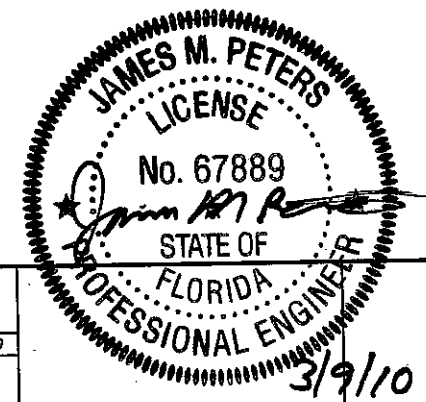
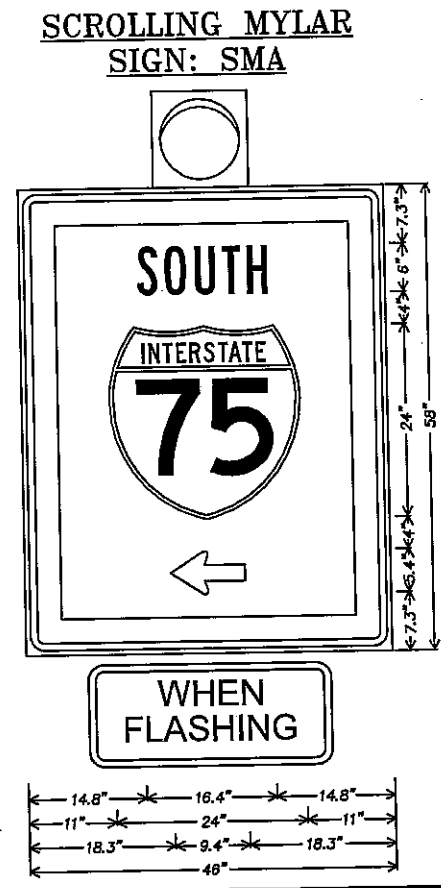
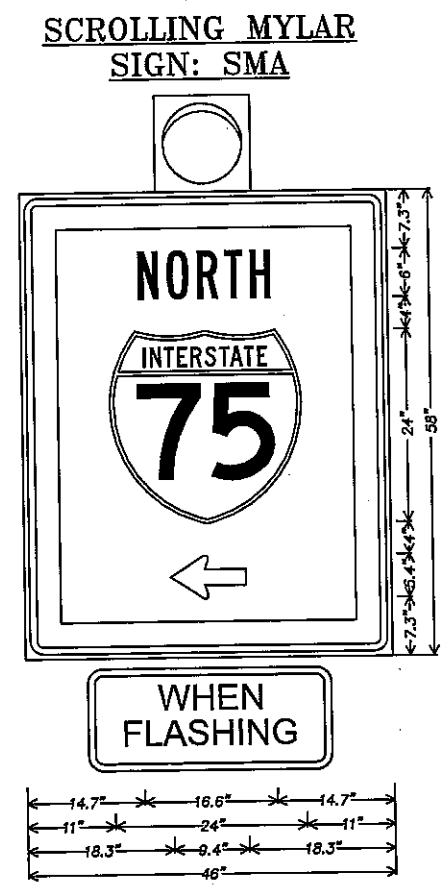
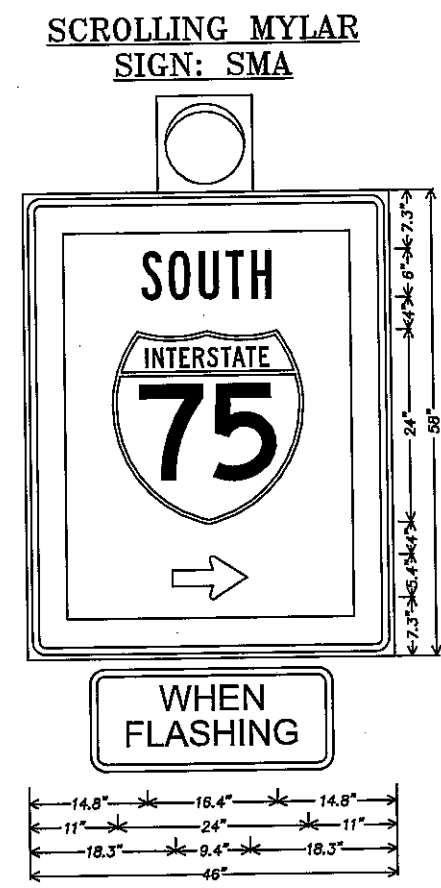
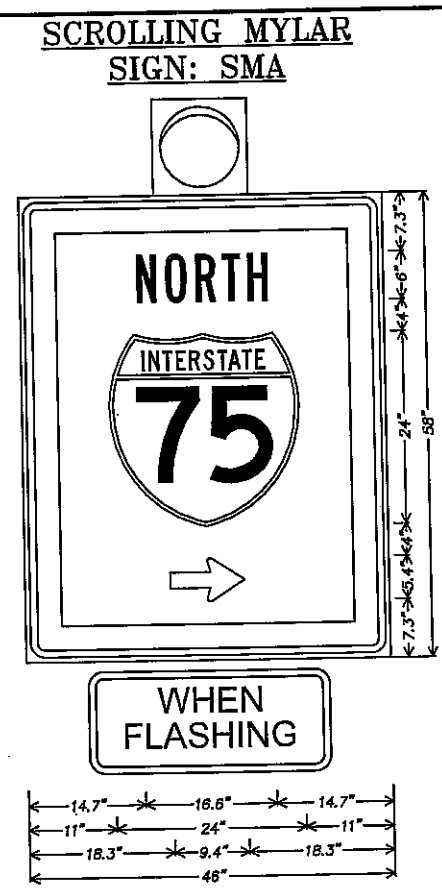
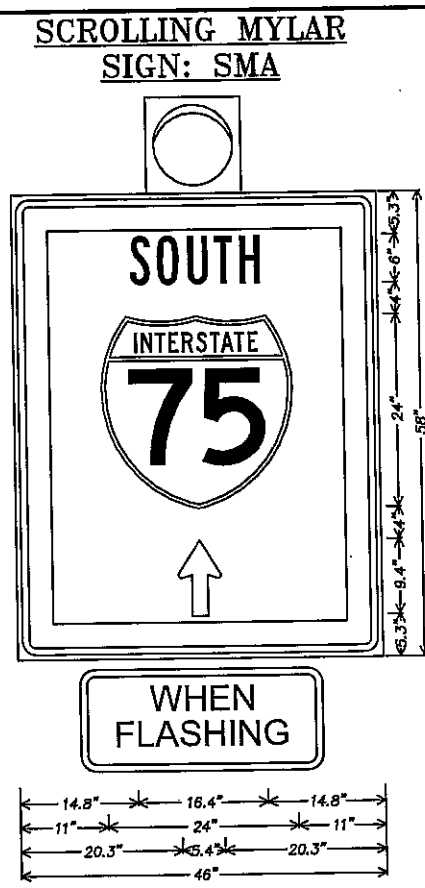
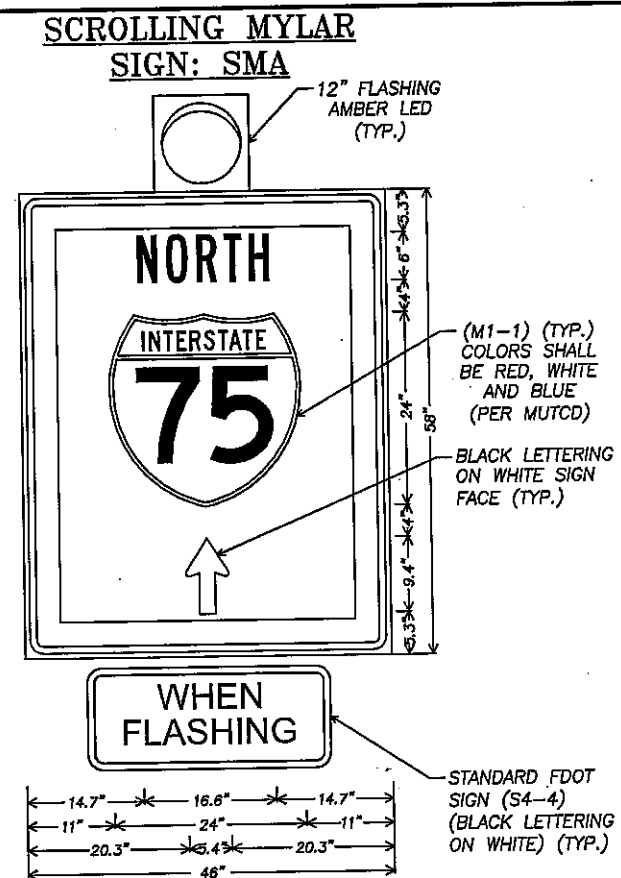
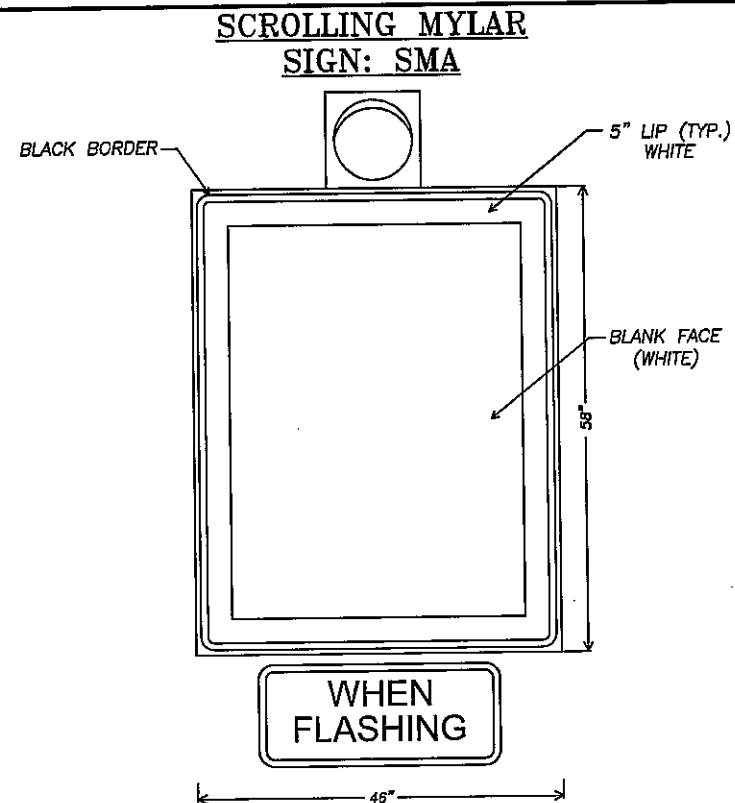
1. INSTALL POLE MOUNTED SCROLLING MYLAR ACTIVE GUIDE SIGN [700-20-19] 1 EA
2. INSTALL STATIC SIGN "WHEN FLASHING" BENEATH THE GUIDE SIGN [700-48-19] 1 EA
3. INSTALL SOLAR FLASHING BEACON CONTROLLER ASSEMBLY [700-90-11] 1 AS
4. INSTALL YAGI ANTENNA, 900 MHZ SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 42) [784-6-13] 1 EA (MASTER RADIO AT SR-200 AND SW 60TH AVENUE)
5. INSTALL SOLAR PANEL, BATTERIES, CHARGER AND CONNECTING CABLES [780-1-11] 1 AS
6. INSTALL POLE MOUNTED CABINET (TYPE III) TO HOUSE WIRELESS RADIO EQUIPMENT, SIGN CONTROLLER & SOLAR POWER RELATED EQUIPMENT [668-13] 1 EA

AERIAL AND RIGHT OF WAY DATA PROVIDED BY
THE MARION COUNTY PROPERTY APPRAISER
(MARCH 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD
BE FIELD VERIFIED.

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SR-200 AT SW 40TH AVENUE SCROLLING MYLAR DETAIL SHEET	SHEET NO. 34
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		Tindale-Oliver & Associates, Inc. Planning and Engineering	---	---	---		





REVISIONS	
DATE	DESCRIPTION

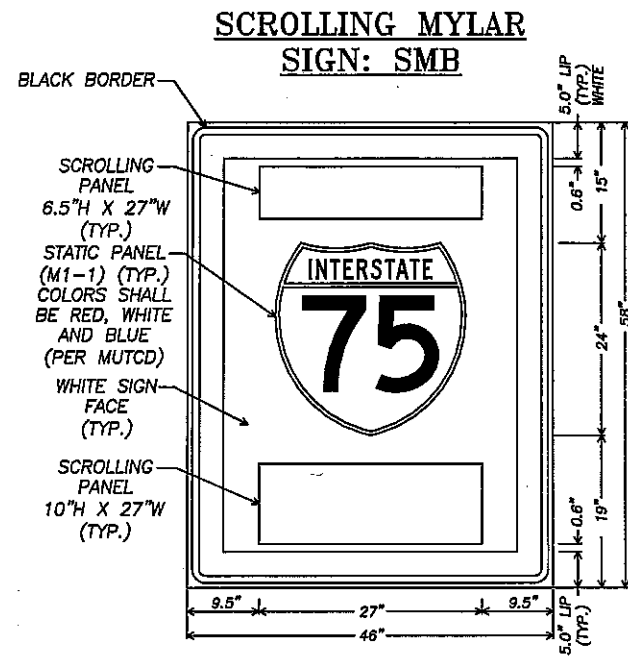
DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

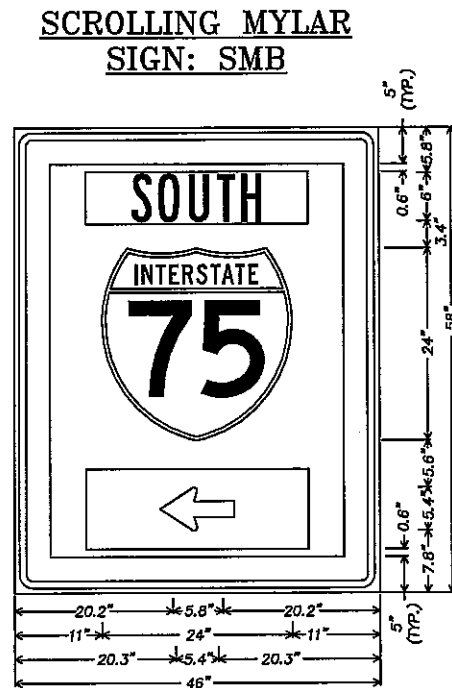
OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**SCROLLING MYLAR SCENARIO
DETAIL SHEET - SMA**

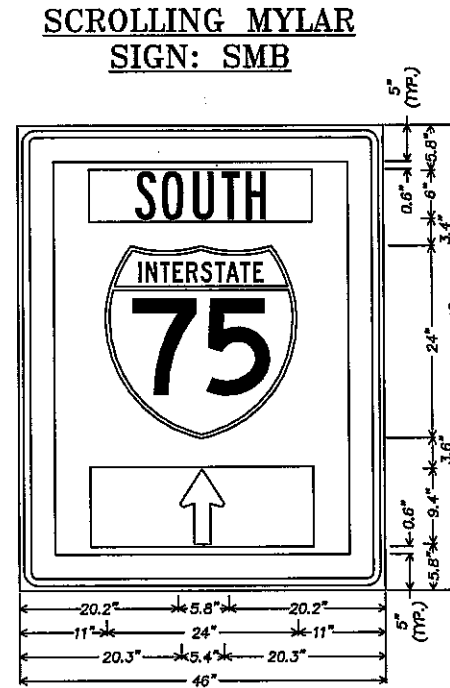
SHEET
NO.
35



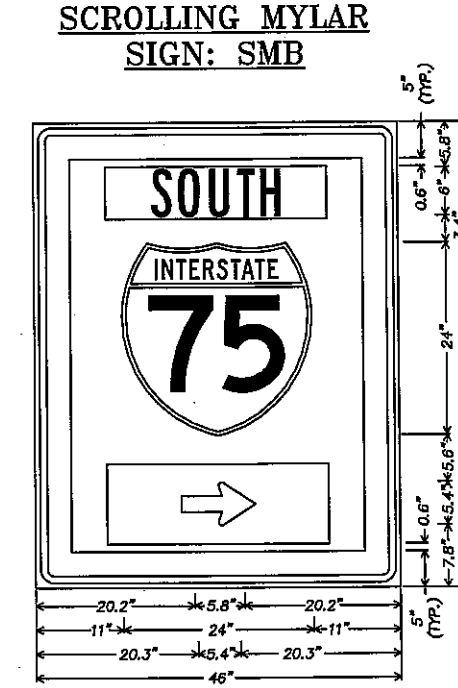
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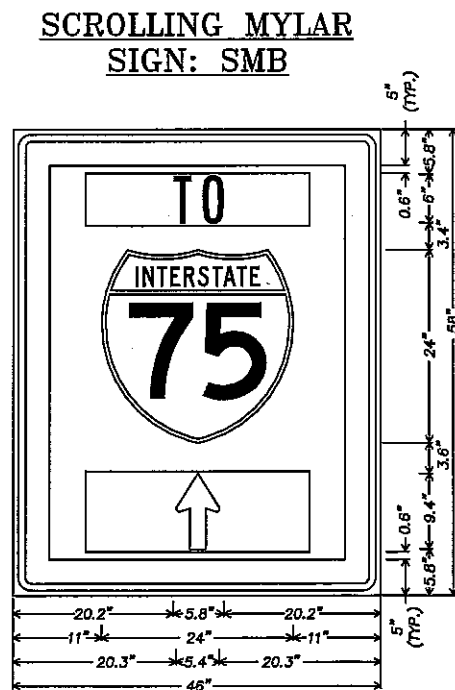
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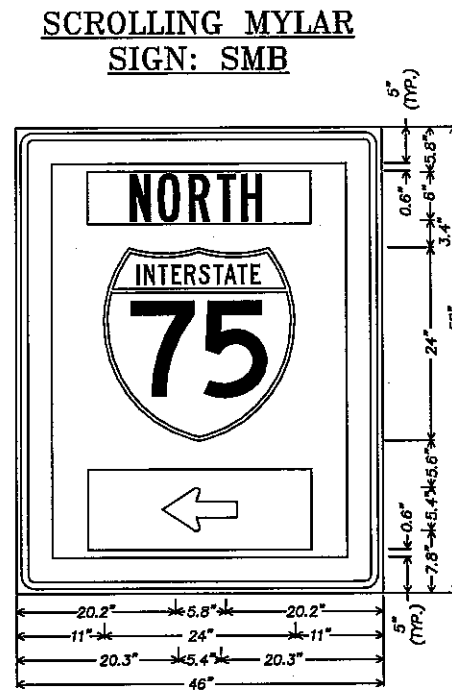
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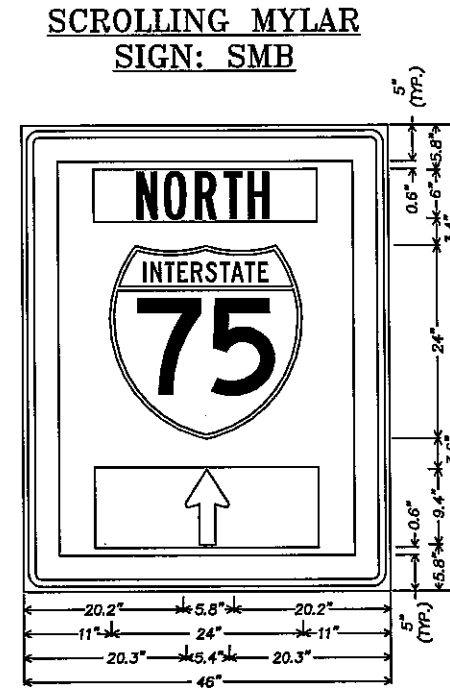
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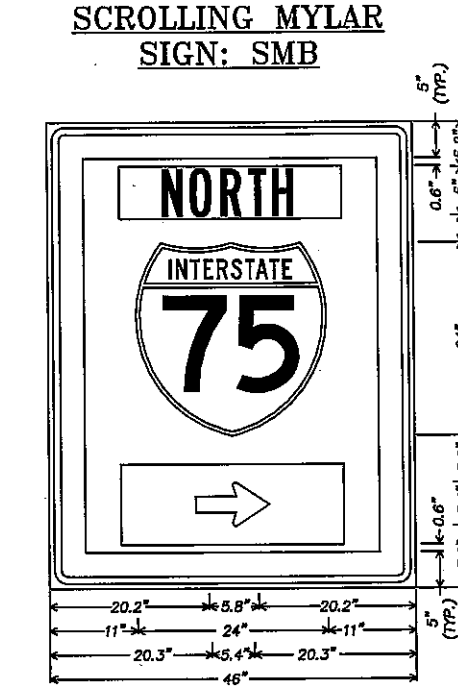
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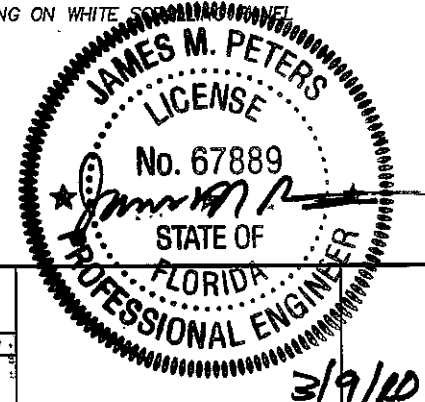
BLACK LETTERING ON WHITE SCROLLING PANEL



BLACK LETTERING ON WHITE SCROLLING PANEL

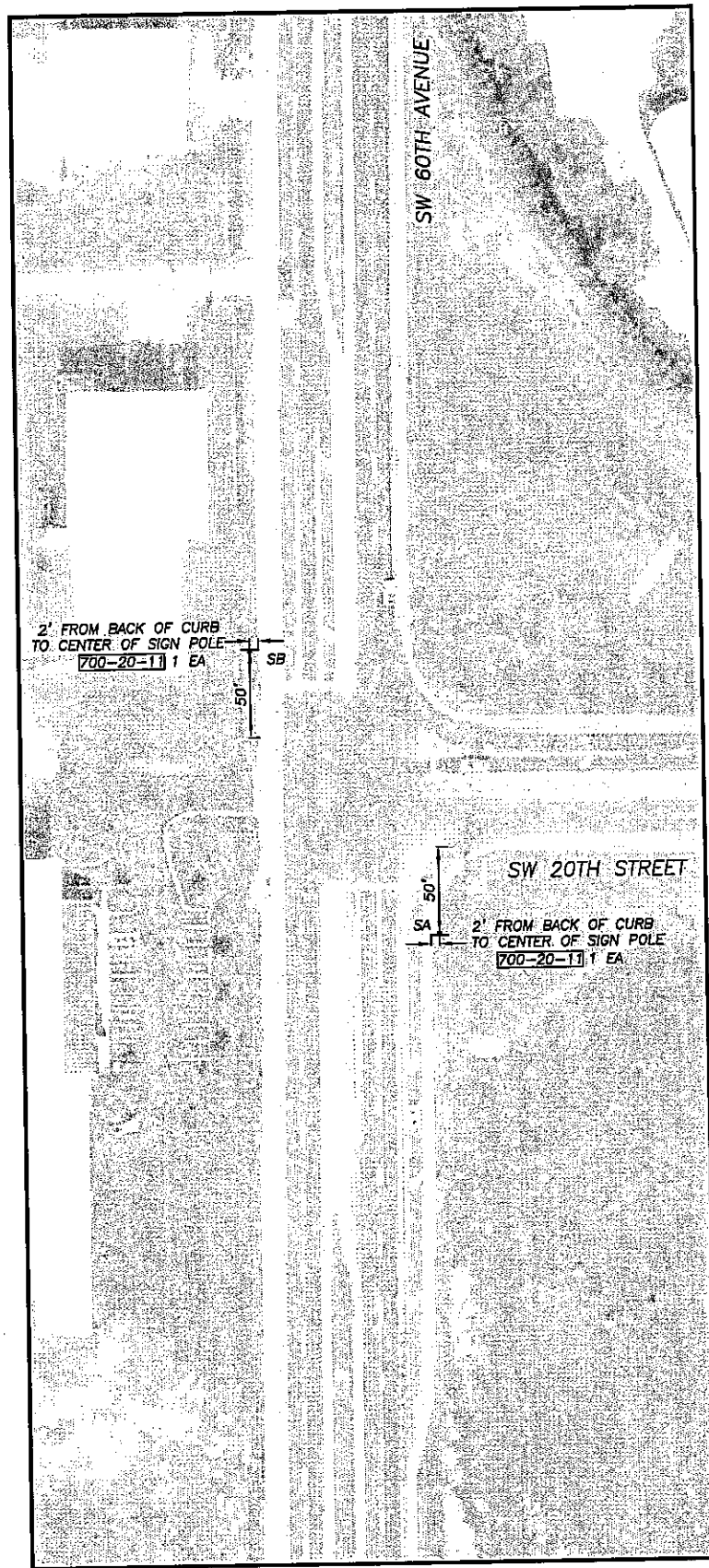


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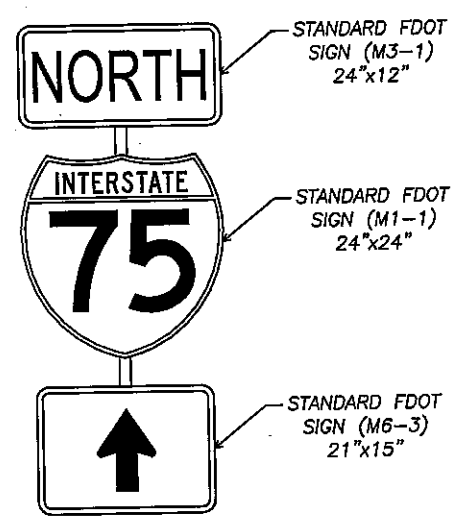


REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SHEET NO.
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
		Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--	36

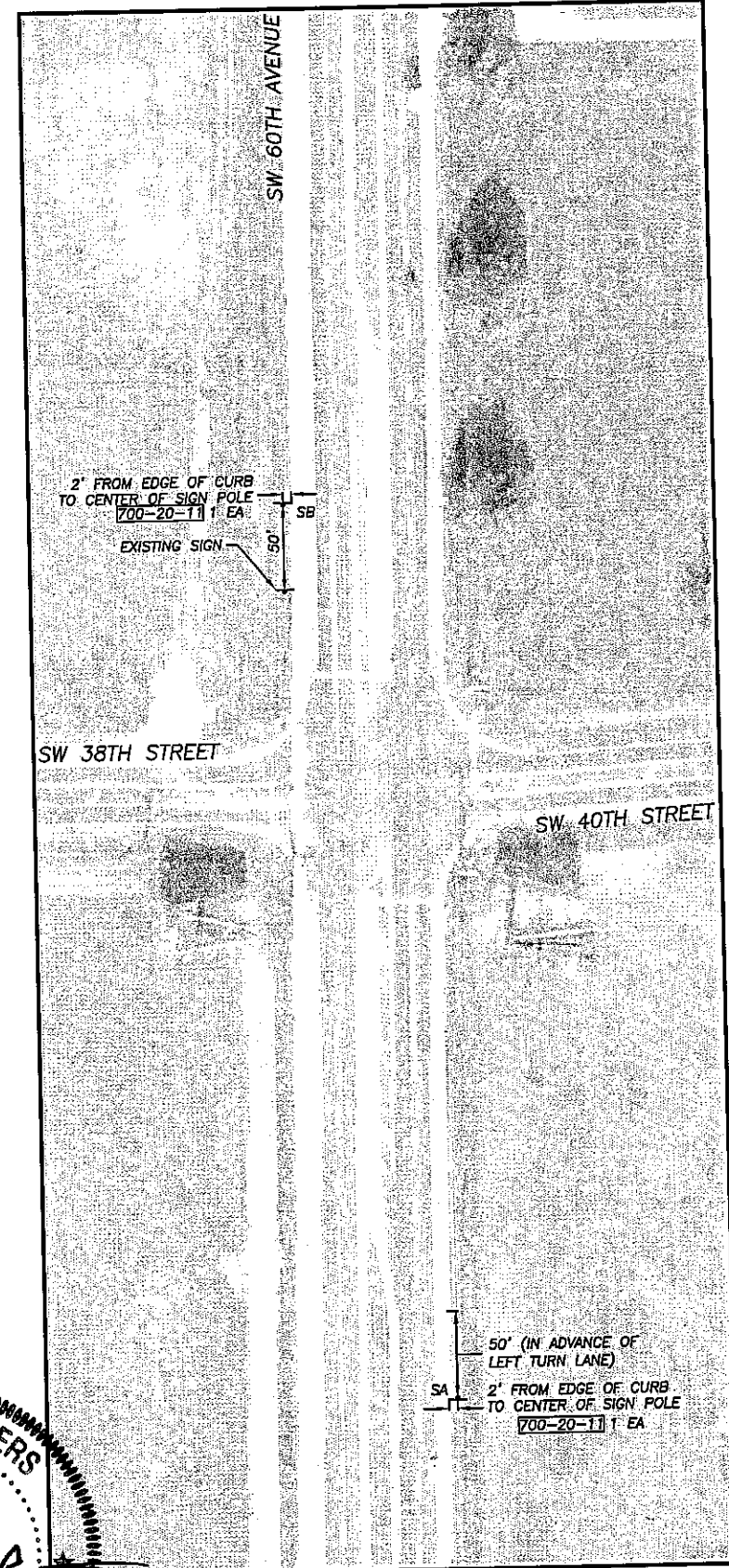
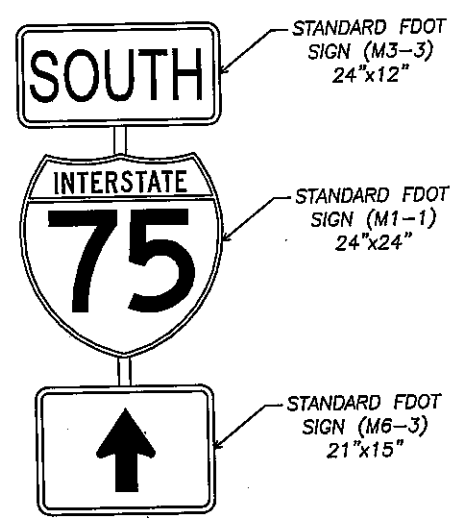
SCROLLING MYLAR SCENARIO
DETAIL SHEET - SMB



STATIC SIGN: SA



STATIC SIGN: SB

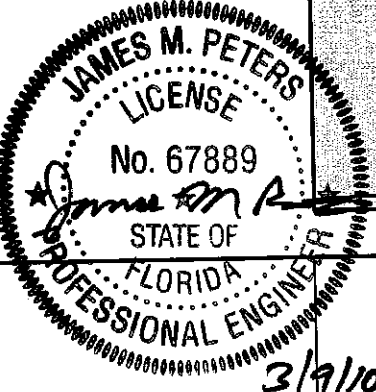


REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

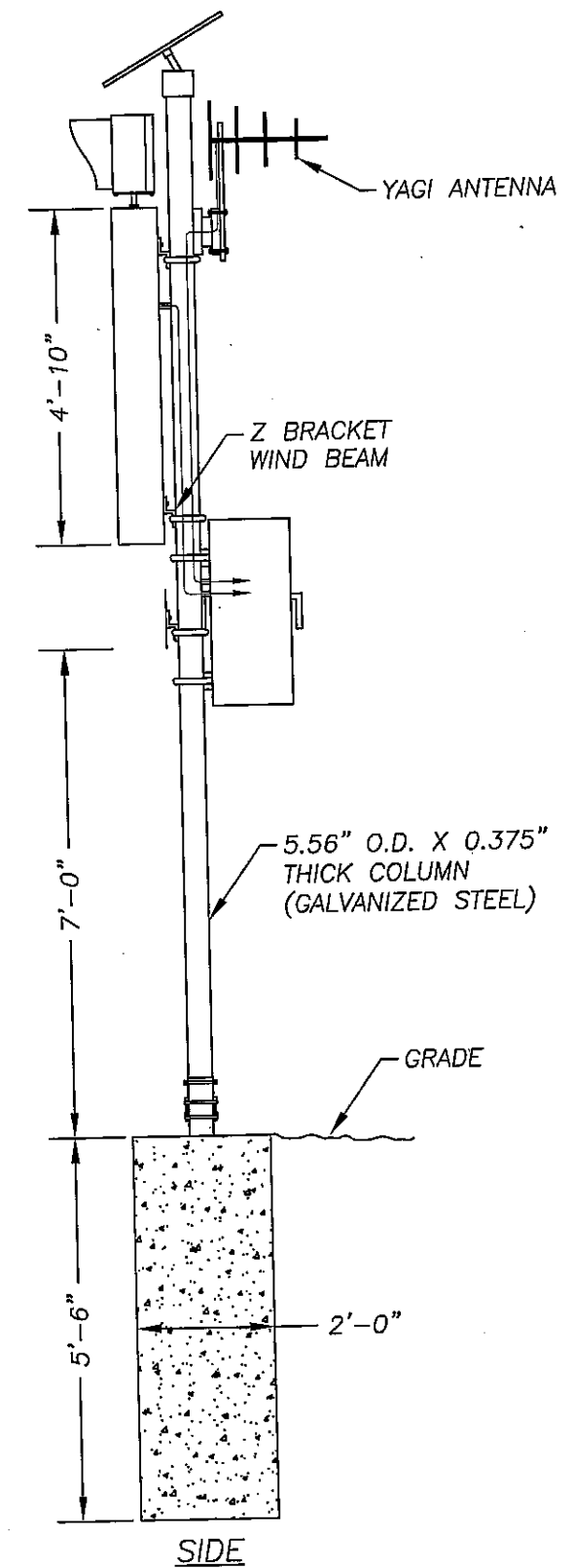
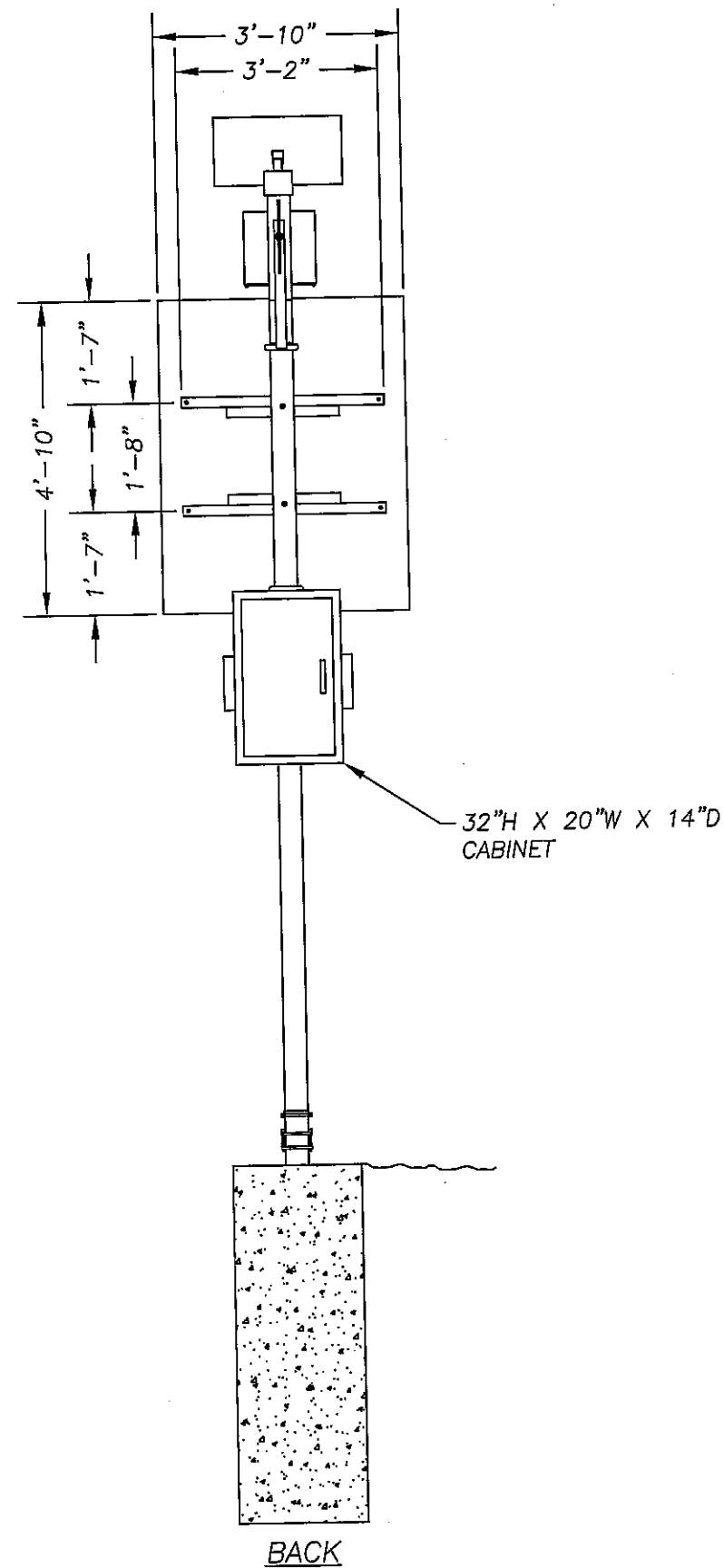
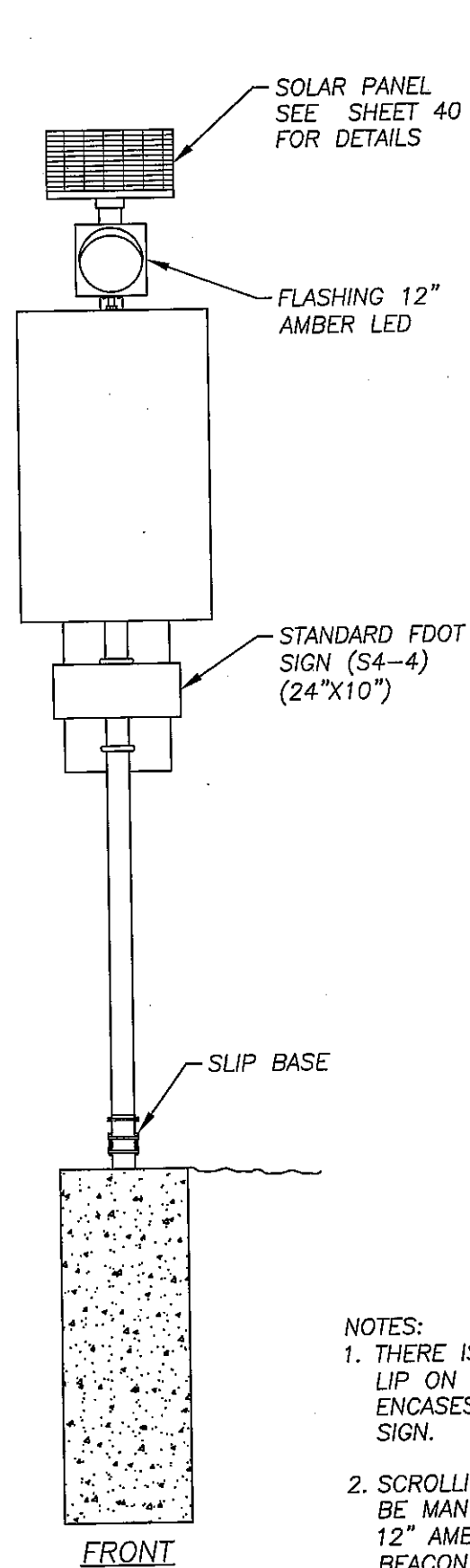
Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STATIC SIGN DETAIL SHEET

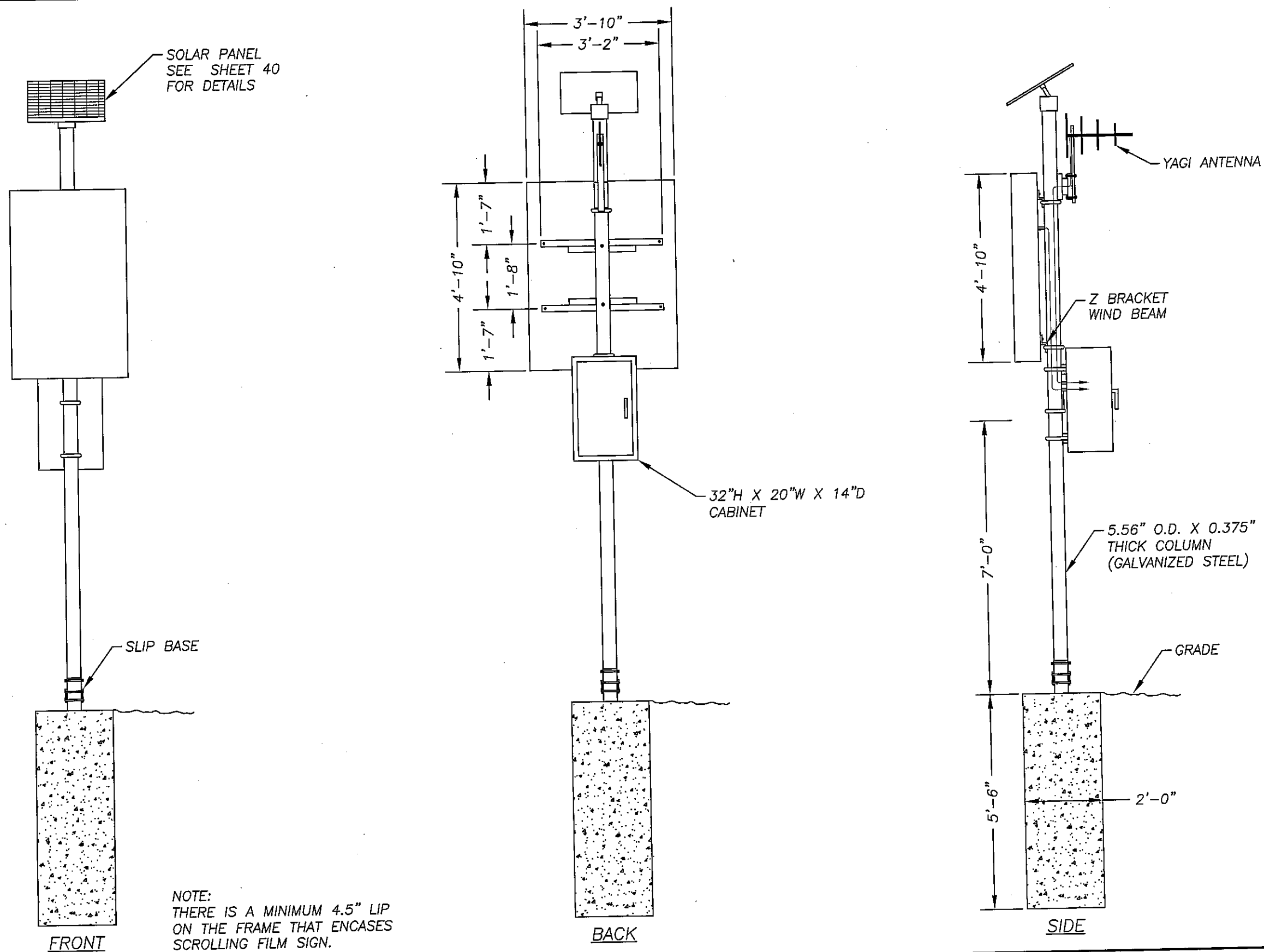
SHEET NO.
37



Handwritten signature
3/12/2010

- NOTES:
1. THERE IS A MINIMUM 4.5" LIP ON THE FRAME THAT ENCASES SCROLLING FILM SIGN.
 2. SCROLLING FILM SIGN TO BE MANUFACTURED WITH 12" AMBER LED FLASHING BEACON.

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS Tindale-Oliver & Associates, Inc. Planning and Engineering	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SCROLLING MYLAR SUPPORT DETAIL - SMA	SHEET NO. 38
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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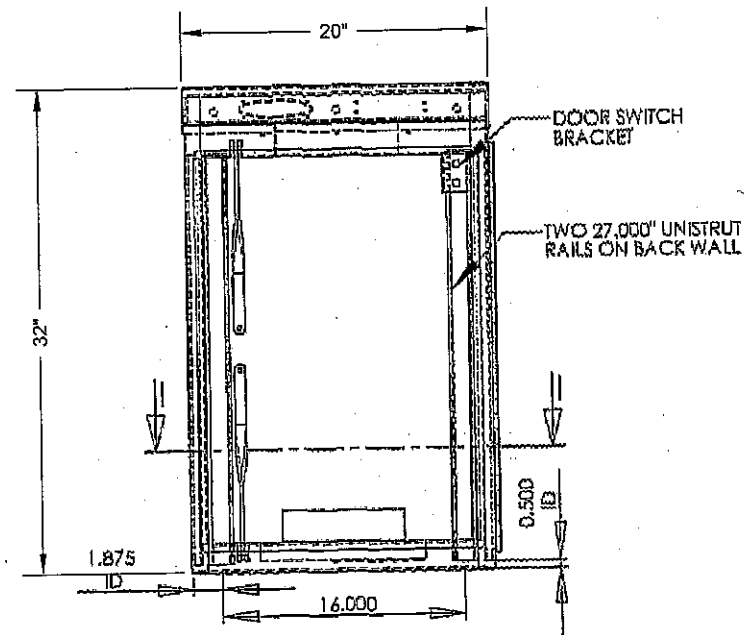
3/10/2010

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SCROLLING MYLAR SUPPORT DETAIL - SMB	SHEET NO. 39
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--		

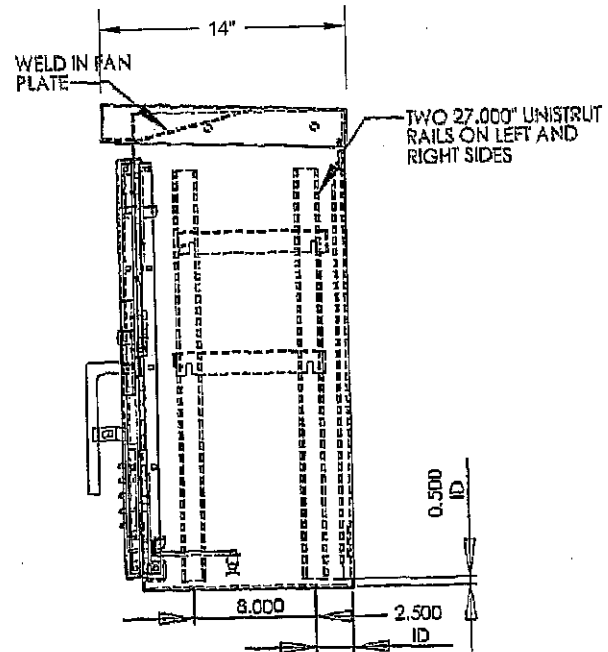
STM

3/9/2010

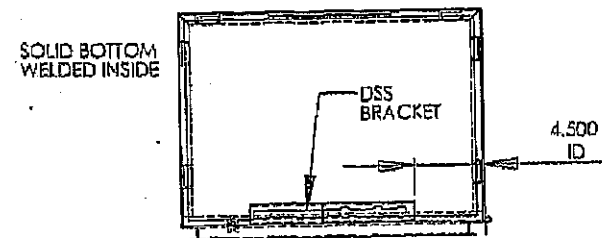
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FRONT VIEW



RIGHT SIDE VIEW

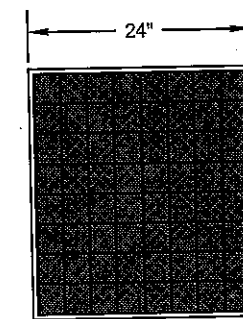


SECTION I-I

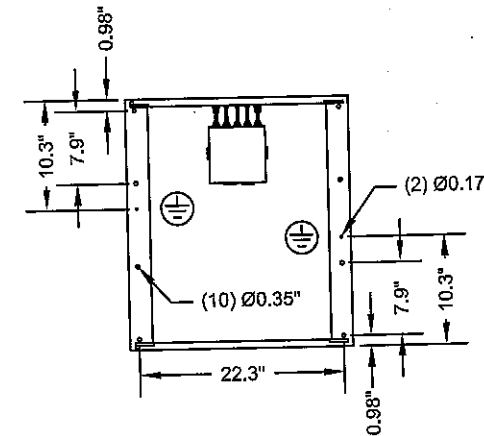
NOTES:

1. CABINET IS CONSTRUCTED FROM .125" THICK 5052 H-32 ALUMINUM AND IS POLE MOUNTED.
2. CABINET HAS A THREE POSITION DOOR STOP, A DOOR SWITCH BRACKET, A SINGLE 4" WELDED IN FAN PLATE, TWO 27.000" LONG UNISTRUT RAILS ON THE REAR WALL ON 16.000" CENTERS. TWO UNISTRUT RAILS ON THE SIDES ARE ON 8.000" CENTERS.
3. DOUBLE THICKNESS POLE MOUNT STIFFENERS ARE WELDED TO THE REAR WALL.
4. DOOR HAS THREE-POINT LATCHING WITH A $\frac{3}{4}$ " STAINLESS STEEL HANDLE, LOUVERS WITH A 12"X12" FIBERGLASS AIR FILTER AND NEOPRENE GASKET ALL AROUND.
5. ALL HARDWARE IS STAINLESS STEEL.
6. CABINET IS UNPAINTED.
7. RATED NEMA 3R & UL LISTED.

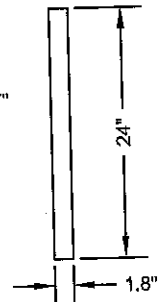
32"H X 20"W X 14"D CABINET DETAIL



FRONT VIEW

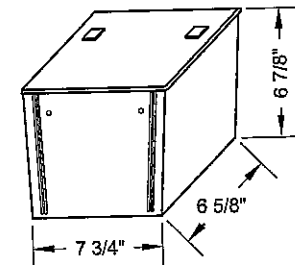
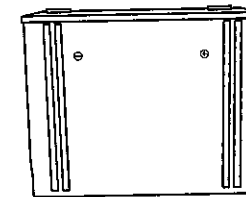


BACK VIEW



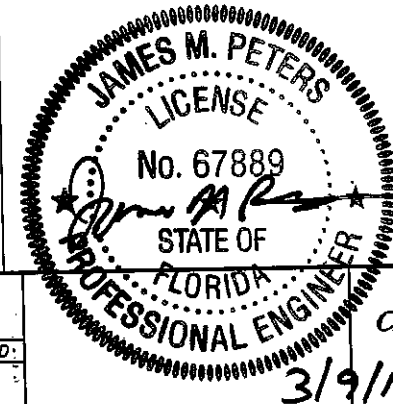
SIDE VIEW

SOLAR PANEL DETAIL



NOTE:
BATTERY SHALL BE ALPHA OR EQUIVALENT.

BATTERY DETAIL



**CABINET, SOLAR PANEL AND BATTERY
DETAIL SHEET**

SHEET
NO.

40

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

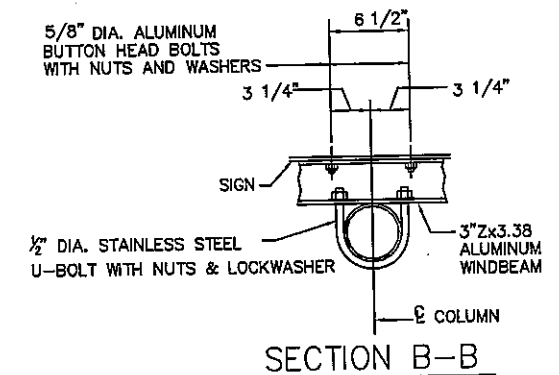
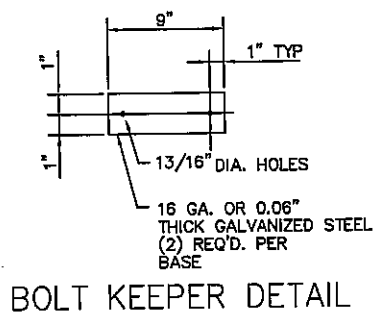
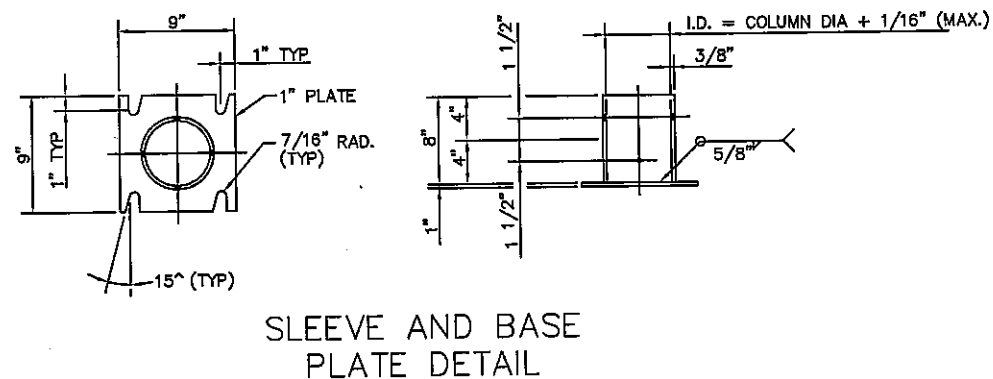
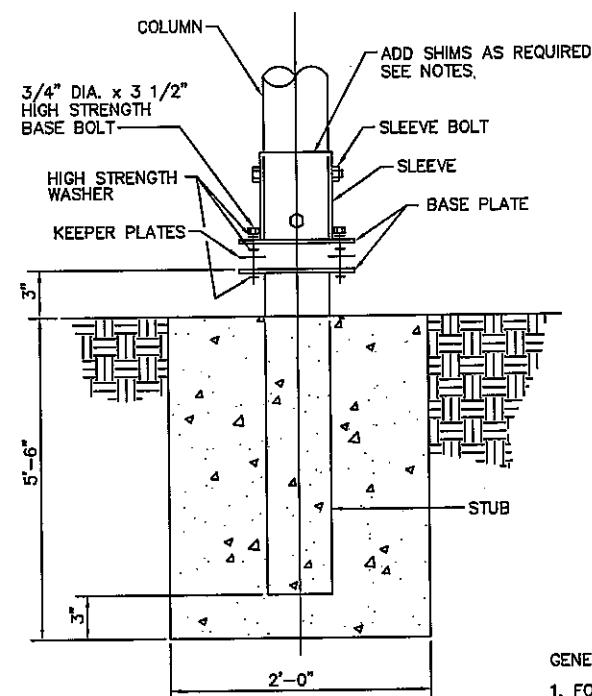
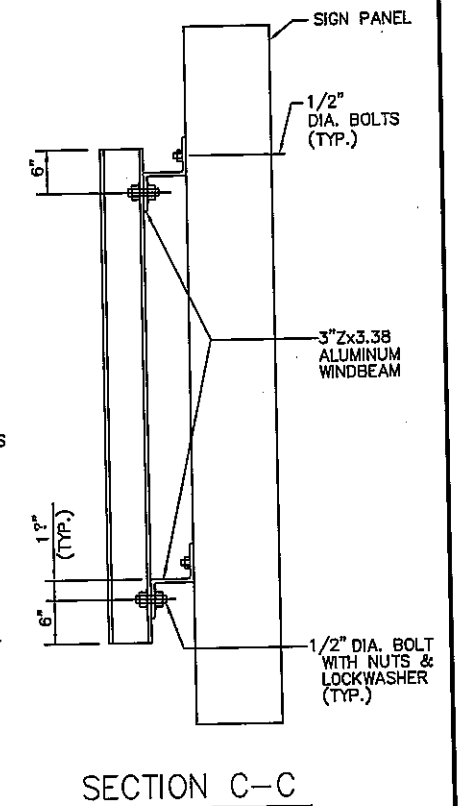
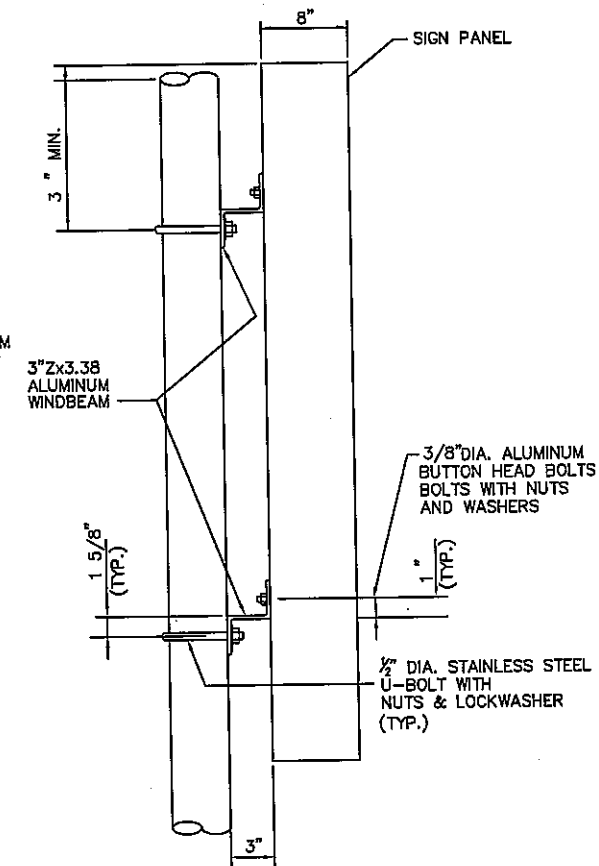
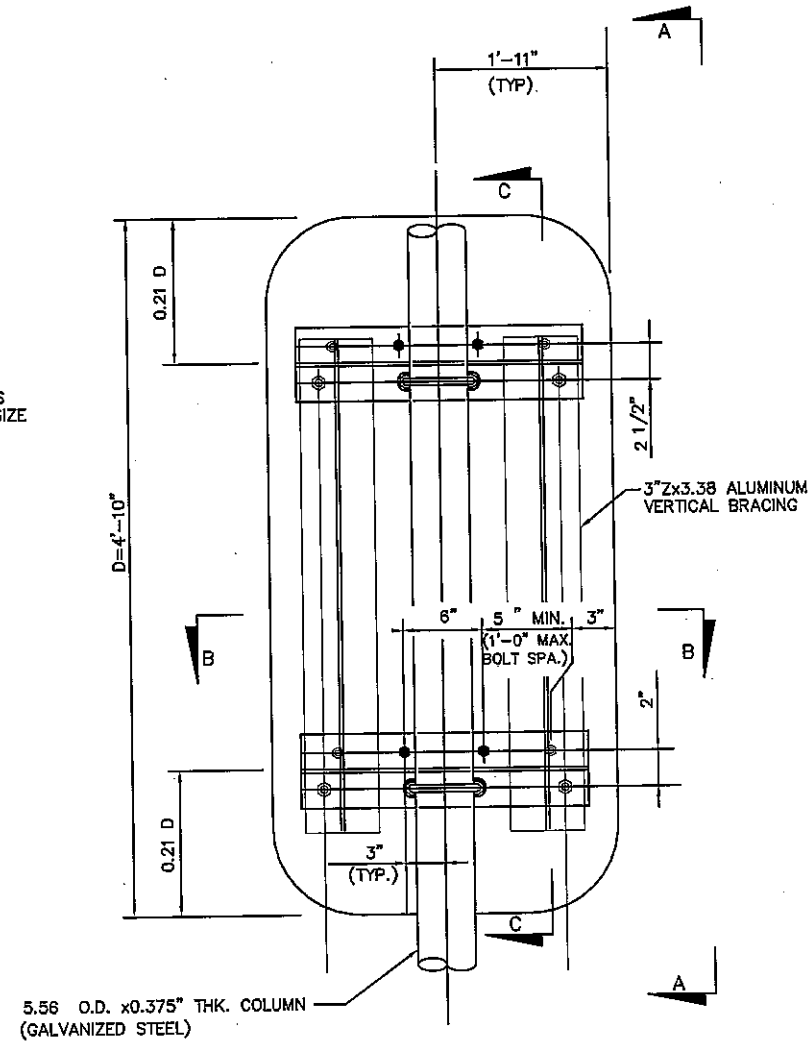
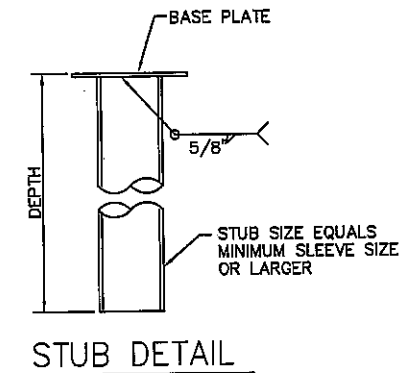
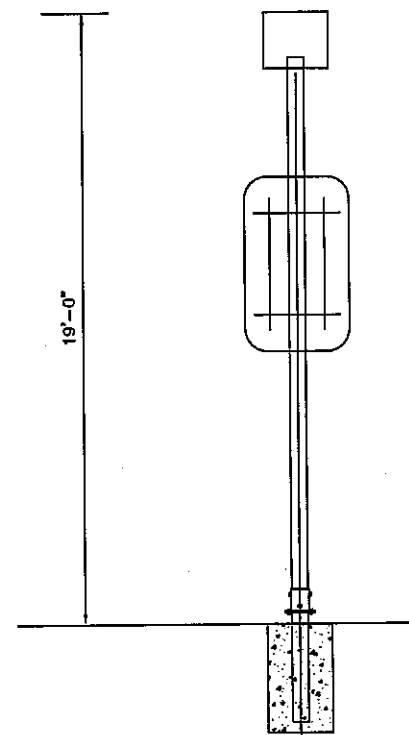
Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STM

3/9/2010

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GENERAL NOTES:

1. FOR MATERIAL SPECIFICATIONS AND NOTES REFER TO
FDOT DESIGN STANDARDS INDEX NO. 11860 AND 11862.
2. THE FOUNDATIONS ARE BASED UPON THE FOLLOWING
CONSERVATIVE SOIL CRITERIA WHICH COVER THE
GREAT MAJORITY OF SOIL TYPES FOUND IN FLORIDA:
- CLASSIFICATION = COHESIONLESS (FINE SAND)
FRICTION ANGLE = 30 DEGREES
UNIT WEIGHT = 50 LBS./CU. FT. (ASSUMED SATURATED)
3. DESIGN WIND SPEED = 110 MPH
4. IMPORTANCE FACTOR, I = 0.54
5. FOUNDATION CONCRETE SHALL BE
CLASS IV, 4000 PSI MINIMUM.

MAP ENGINEERING COMPANY
550 N. REO STREET, SUITE 300
TAMPA, FL 33609
813-261-5013

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			SIGN DETAIL SHEET	SHEET NO. 41
DATE	DESCRIPTION		 Tindale-Oliver & Associates, Inc. Planning and Engineering	ROAD NO.	COUNTY		
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			CTM			3/9/2010	J:\479010-01.00\DESIGN\FINAL\SHEET 41.DWG

STM

3/9/2010

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SPECIFICATIONS

1. RADIO :

THE WIRELESS RADIO SYSTEM SHALL MEET THE FOLLOWING REQUIREMENTS.

- SYSTEM SHALL OPERATE USING 900 MHZ SERIAL, LICENSE FREE, FREQUENCY HOPPING SPREAD SPECTRUM TECHNOLOGY.
- SYSTEM SHALL PROVIDE UP TO 115 Kbps SUSTAINED DATA THROUGHPUT
- SYSTEM SHALL OPERATE USING SOLAR POWER TECHNOLOGY
- SYSTEM SHALL BE CAPABLE OF LOW POWER CONSUMPTION AND SLEEP MODE FOR SOLAR POWER APPLICATIONS.
- ANY RADIO MUST BE CAPABLE TO SERVE AS A MASTER, REPEATER, SLAVE AND SLAVE/REPEATER.
- SYSTEM SHALL BE CAPABLE OF PROVIDING POINT-TO-POINT, POINT-TO-MULTIPOINT, MULTIPOINT-TO POINT AND MULTIPOINT-TO-MULTIPOINT OPERATION.
- RANGE PERFORMANCE SHALL BE UP TO 20 MILES WITH CLEAR LINE OF SIGHT, ABILITY TO EXTEND THROUGH REPEATERS.
- SYSTEM SHALL BE CAPABLE OF TRANSPARENT OPERATION WITH MOST TRAFFIC APPLICATIONS
- SYSTEM SHALL HAVE END TO END DELAYS OF NO MORE THAN 8 MILLISECONDS
- SYSTEM SHALL HAVE BUILT-IN SETUP AND DIAGNOSTICS CAPABILITIES.
- SYSTEM SHALL OPERATE ON VARIABLE TRANSMIT POWER WITH A MAXIMUM OF 1 WATT
- SYSTEM SHALL BE CONFIGURABLE ON WINDOWS PLATFORM
- SYSTEM SHALL BE FIELD HARDENED WITH OPERATING TEMPERATURES OF -40°C TO +80°C
- SYSTEM SHALL HAVE STANDARD RS232 ASYNCHRONOUS DATA INTERFACE.
- SYSTEM SHALL BE COMPATIBLE WITH ETHERNET NETWORK EQUIPMENT (AT THE MASTER END)
- SYSTEM SHALL BE COMPATIBLE WITH CONTROLLERS, TRAFFIC MONITORING DEVICES AND THEIR INTERFACE.

2. OMNI DIRECTIONAL ANTENNA :

THE OMNI DIRECTIONAL ANTENNA SHALL MEET THE FOLLOWING REQUIREMENTS.

- ANTENNA SHALL BE COMPATIBLE WITH THE RADIO INTERCONNECT SYSTEM
- ANTENNA SHALL BE FIELD HARDENED WITH OPERATING TEMPERATURES OF -40°C TO +80°C
- ANTENNA SHALL HAVE A 3 DB GAIN
- THE WEIGHT OF THE ANTENNA SHALL NOT EXCEED 5 POUNDS
- ANTENNA SHOULD BE CAPABLE OF SUSTAINING AT LEAST 125 MPH WINDS
- THE POLARIZATION OF THE ANTENNA BE VERTICAL
- MAXIMUM POWER CONSUMPTION SHALL BE 200 WATTS

3. YAGI ANTENNA :

THE YAGI ANTENNA SHALL MEET THE FOLLOWING REQUIREMENTS.

- ANTENNA SHALL BE COMPATIBLE WITH THE RADIO INTERCONNECT SYSTEM
- ANTENNA SHALL BE FIELD HARDENED WITH OPERATING TEMPERATURES OF -40°C TO +80°C
- ANTENNA SHALL HAVE A NOMINAL GAIN OF 6.4 & 10 DBD FOR SIGNS NEAR INTERSECTION (300-1000') & FOR REMOTE LOCATIONS AWAY FROM INTERSECTION (>1000') RESPECTIVELY
- ANTENNA SHALL HAVE A FRONT TO BACK RATIO OF > OR EQUAL TO 15 DB
- ANTENNA SHOULD BE CAPABLE OF SUSTAINING AT LEAST 125 MPH WINDS
- ANTENNA SHALL HAVE A POWER RATING OF 150 WATTS
- THE HEIGHT OF THE ANTENNA SHALL NOT BE MORE THAN 25 INCHES AND WIDTH NOT MORE THAN 7 INCHES.
- THE ANTENNA SHALL HAVE HORIZONTAL BEAM WIDTH OF AT LEAST 50 DEGREES AND VERTICAL BEAM WIDTH OF AT LEAST 45 DEGREES.
- THE FREQUENCY RANGE OF THE ANTENNA BE 890-960 MHZ

4. LIGHTNING PROTECTION :

THE LIGHTNING PROTECTION SHALL MEET THE FOLLOWING REQUIREMENTS.

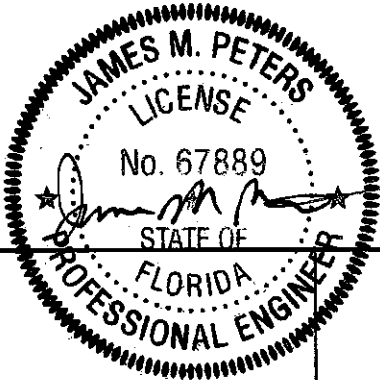
- THE UNIT SHALL BE FIELD HARDENED AND OPERATE NORMALLY BETWEEN TEMPERATURES OF -40°C TO +80°C
- SHALL HAVE VIBRATION OF 1G UP TO 100HZ
- SHALL HAVE MULTISTRIKE CAPABILITY
- SHALL BE SHELF MOUNTABLE
- SHALL HAVE A FREQUENCY RANGE OF 125 MHZ TO 1000 MHZ
- SHALL BE CAPABLE TO PROTECT THE RADIO UNIT AND OTHER NETWORK UNITS CONNECT TO IT FROM MULTIPLE LIGHTNING STRIKES.

5. POLE MOUNTED CABINET :

THE POLE MOUNTED CABINET SHALL MEET THE FOLLOWING REQUIREMENTS.

- THE CABINET SHALL BE A TYPE III WITH 32" H X 20" W X 14" D
- THE CABINET SHALL BE CONSTRUCTED FROM 0.125" THICK 5052 H-32 ALUMINUM AND IS POLE MOUNTABLE.
- THE CABINET SHALL HAVE THREE POSITION DOOR STOP, A DOOR SWITCH BRACKET.
- THE CABINET SHALL HAVE DOUBLE THICKNESS POLE MOUNT STIFFENERS WELDED TO THE REAR WALL.
- THE CABINET DOOR SHALL HAVE THREE-POINT LATCHING WITH A 3/4" STAINLESS STEEL HANDLE, LOUVERS WITH A 12"x12" FIBERGLASS AIR FILTER AND NEOPRENE GASKET ALL ROUND.
- ALL HARDWARE SHALL BE STAINLESS STEEL
- CABINET SHALL BE UNPAINTED
- CABINET SHALL BE RATED NEMA 3R
- THE CABINET SHALL HAVE ENOUGH SPACE TO ACCOMMODATE SOLAR BATTERIES WITH CHARGER, SIGN CONTROLLER, RADIO COMMUNICATION EQUIPMENT AND ANY OTHER EQUIPMENT THAT WILL PUT TOGETHER A COMPLETE FUNCTIONAL UNIT.
- THE CABINET SHALL HAVE AT LEAST TWO REMOVABLE SELF STANDING RACK ASSEMBLIES

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			RADIO COMMUNICATION INTERCONNECT SPECIFICATIONS	SHEET NO. 43
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		 Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--		



LEGEND



CITY OF OCALA
TRAFFIC MONITORING
STATIONS



MARION COUNTY TRAFFIC
MONITORING STATIONS

REVISIONS
DATE DESCRIPTION

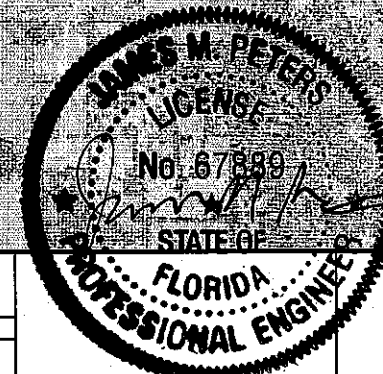
DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY
TRANSPORTATION PLANNING ORGANIZATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

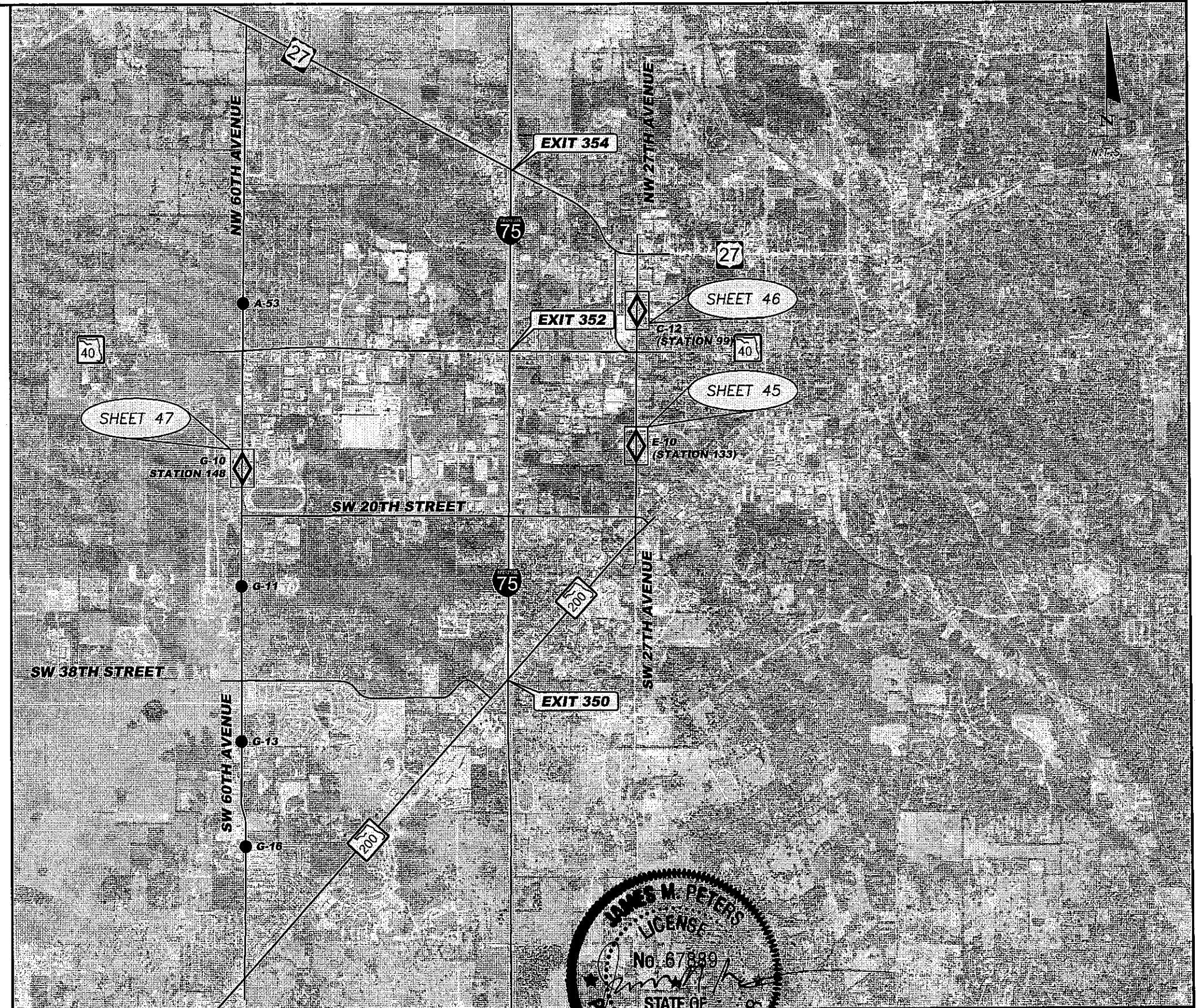
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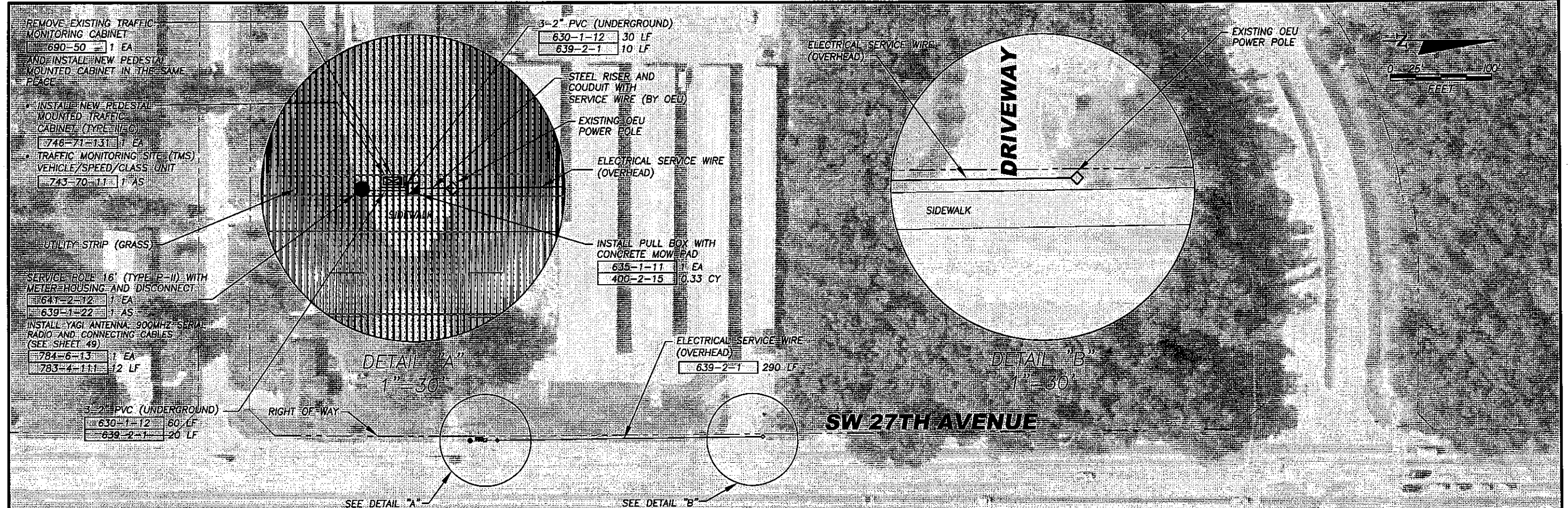


**TRAFFIC MONITORING STATIONS
LOCATION MAP**

SHEET
NO.

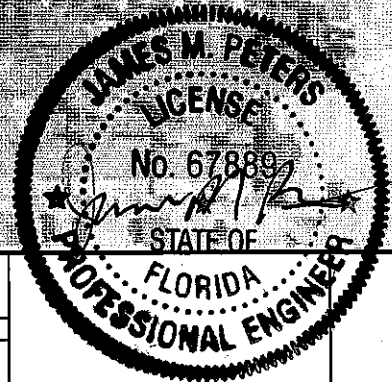
44





- CONTRACTOR SHALL:
- NOTIFY THE CITY OF OCALA PUBLIC WORKS DEPARTMENT, TRAFFIC DIVISION AT LEAST (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT CAMILLE A. MATHEWS AT (352) 351-6733 CONCERNING ANY QUESTIONS.
 - FURNISH AND INSTALL TRAFFIC MONITORING PEDESTAL MOUNT CABINET PER CITY OF OCALA AND FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION, AND F.D.O.T. DESIGN STANDARDS 2008 EDITION, INDEXES 17503, 17721, 17841, AND 17900 AT LEAST TWO FEET FROM OUTSIDE EDGE OF SIDEWALK. A TERMINAL STRIP IS TO BE SUPPLIED WITH A TYPE 3 CABINET FOR TERMINATING FIELD WIRE. THE CABINET SHALL BE WIRED TO THE BACKPLANE WITH A "J" & "B" AMPHENOL CLASSIFICATION AND STREETER - AMET 241A 28-12 HARNESS.
 - ALL LOOPS AND PIEZOS ARE TO BE TESTED WITH CITY OF OCALA TRAFFIC DIVISION PERSONNEL PRESENT AND ALL READINGS ARE TO BE LEFT IN CABINET. CONTACT: CAMILLE A. MATHEWS TWO (2) FULL BUSINESS DAYS PRIOR TO ANY TESTING.
 - FURNISH AND INSTALL UNDERGROUND ELECTRIC POWER SERVICE ASSEMBLY AS PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION, SECTION 639 AND F.D.O.T. DESIGN STANDARDS 2008 EDITION INDEX 17736.
 - FURNISH AND INSTALL YAGI ANTENNA (MDS CLEARWAVE 97-3194-A14 OR EQUIVALENT) 500-MHZ REMOTE RADIO (ENCOM MODEL 5200 OR EQUIVALENT) AT TRAFFIC MONITORING LOCATION, (MASTER RADIO AT SW 10TH STREET AND SW 27TH AVENUE) (SEE SHEET 49), AND CONNECTING CABLES (PEEK COMPUTER SERIAL CABLE MODEL G1120087 OR EQUIVALENT AND DATA CABLES) NEEDED TO RUN WIRELESS CONNECTION THAT SHALL BE MADE BY A SYSTEM IN AN END TO END FASHION, USING 900 MHZ WIRELESS TECHNOLOGY CONNECTING TO THE END DEVICE AND SOFTWARE RUNNING ON THE PC HOSTING THE APPLICATION.
 - SHOULD FIELD ADJUSTMENTS BE NEEDED CONTACT CAMILLE A. MATHEWS @ 352-351-6733.
 - 746-71-131 SHALL INCLUDE LABOR AND MATERIALS FOR CONCRETE BASE AND PAD FOR TRAFFIC MONITORING PEDESTAL MOUNT CABINET.

REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			TRAFFIC MONITORING STATIONS SW 27TH AVENUE AT SW 20TH STREET STATION 133 (E-10)	SHEET NO. 45
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		Tindale-Oliver & Associates, Inc. Planning and Engineering	--	--	--		



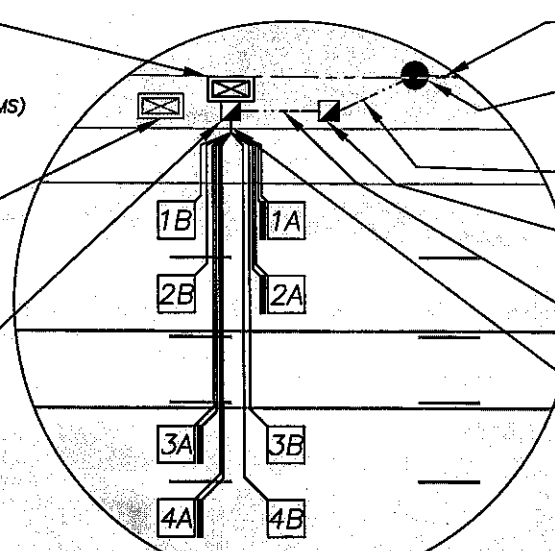
AERIAL AND RIGHT OF WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

- INSTALL NEW PEDESTAL MOUNTED TRAFFIC CABINET (TYPE III C)
748-71-131 1 EA
- TRAFFIC MONITORING SITE (TMS) VEHICLE/SPEED/CLASS UNIT
743-70-11 1 AS

REMOVE EXISTING TMS CABINET
690-50 1 EA

INSTALL PULL BOX WITH CONCRETE MOW PAD (FOR LOOPS/SENSORS)
635-1-11 1 EA
400-2-15 0.33 CY



2-2" HDPE (BY DIRECTIONAL BORE)
(INSTALL SERVICE WIRE IN ONE OF THE CONDUITS)

3-2" PVC (UNDERGROUND)
630-1-12 30 LF
639-2-1 10 LF (SERVICE WIRE)

INSTALL PULL BOX WITH CONCRETE MOW PAD (FOR POWER SERVICE)
635-1-11 1 EA
400-2-15 0.33 CY

3-2" PVC (UNDERGROUND)
630-1-12 45 LF
639-2-1 15 LF

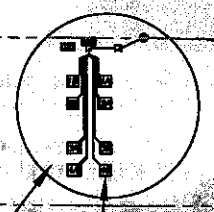
2-2" PVC (UNDERGROUND)
630-1-12 15 LF

SERVICE POLE (TYPE P-II) WITH METER HOUSING AND DISCONNECT
641-2-12 1 EA
639-1-22 1 AS

INSTALL YAGI ANTENNA, 900MHZ SERIAL RADIO AND CONNECTING CABLES (SEE SHEET 49)
784-6-13 1 EA
783-4-111 12 LF

STEEL RISER (BY OEU) WITH SERVICE WIRE
CONDUIT WITH SERVICE WIRE (BY OEU)

2-2" HDPE (BY DIRECTIONAL BORE)
555-1-1 180 LF
639-2-1 180 LF



SEE DETAIL "A"

TMS INDUCTIVE LOOP ASSEMBLY
745-70-12 8 AS
PIEZO VEHICLE SENSORS
741-70-111 4 EA

NOTE: REFER TO FDOT INDEX 17900 FOR PLACEMENT DETAIL AND INSTALLATION INSTRUCTIONS.

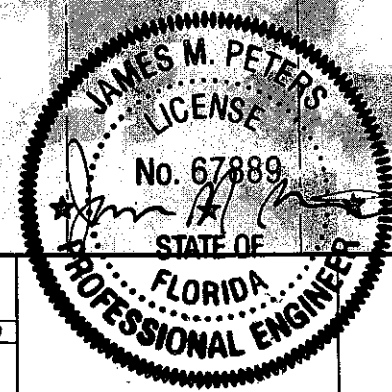
OEU ELECTRIC POLE
INSTALL PULL BOX
635-1-11 1 EA



CONTRACTOR SHALL:

1. NOTIFY THE CITY OF OCALA PUBLIC WORKS DEPARTMENT, TRAFFIC DIVISION AT LEAST (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT CAMILLE A. MATHEWS AT (352) 351-6733 CONCERNING ANY QUESTIONS.
2. FURNISH AND INSTALL TRAFFIC MONITORING PEDESTAL MOUNT CABINET, PER CITY OF OCALA AND FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION, AND F.D.O.T. DESIGN STANDARDS 2008 EDITION, INDEXES 17503, 17721, 17841, AND 17900 AT LEAST TWO FEET FROM OUTSIDE EDGE OF SIDEWALK. A TERMINAL STRIP AND A TELEPHONE DROP PANEL ARE TO BE SUPPLIED AND INSTALLED WITH A TYPE JC CABINET FOR TERMINATING FIELD WIRE. THE CABINET SHALL BE WIRED TO THE BACKPLANE WITH A "J" & "P" AMPHENOL CLASSIFICATION AND STREETER 241A 28-12 HARNESS.
3. FURNISH AND INSTALL SPEED CLASSIFICATION LOOP ASSEMBLIES. ALL LOOP SLOTS SHALL BE 0.25 INCHES WIDE AND WITH A MINIMUM OF A THREE-INCH DEEP SAW CUT. LABEL LOOPS AS SHOWN IN PLAN SHEET. PIEZO VEHICLE AXLE SENSOR SHALL BE INSTALLED AS PER F.D.O.T. DESIGN STANDARDS, 2008 EDITION, INDEX 17900, WITH NO SPlicing TO THE PIEZO SENSOR FROM PIEZO TO CABINET.
4. ALL LOOPS AND PIEZOS ARE TO BE TESTED WITH CITY OF OCALA TRAFFIC DIVISION PERSONNEL PRESENT. ALL READINGS ARE TO BE LEFT IN CABINET. CONTACT CAMILLE A. MATHEWS 2 FULL BUSINESS DAYS PRIOR TO TESTING.
5. FURNISH AND INSTALL UNDERGROUND ELECTRIC POWER SERVICE ASSEMBLY AS PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2008 EDITION SECTION 639 AND F.D.O.T. DESIGN STANDARDS 2008 EDITION INDEX 17736.
6. FURNISH AND INSTALL YAGI ANTENNA (MDS CLEARWAVE 97-3194-A14 OR EQUIVALENT), 900 MHZ REMOTE RADIO (ENCOM MODEL 5200 OR EQUIVALENT) AT TRAFFIC MONITORING LOCATION, (MASTER RADIO AT SR 40 AND SW 27TH AVENUE)(SEE SHEET 49), AND CONNECTING CABLES (PEEK COMPUTER SERIAL CABLE MODEL G1120087 OR EQUIVALENT AND DATA CABLES) NEEDED TO RUN WIRELESS CONNECTION THAT SHALL BE MADE BY A SYSTEM IN AN END TO END FASHION USING 900 MHZ WIRELESS TECHNOLOGY CONNECTING TO THE END DEVICE AND SOFTWARE RUNNING ON THE PC HOSTING THE APPLICATION.
7. SHOULD FIELD ADJUSTMENTS BE NEEDED CONTACT CAMILLE A. MATHEWS @ 352-351-6733.
8. 748-71-131 SHALL INCLUDE LABOR AND MATERIALS FOR CONCRETE BASE AND PAD FOR TRAFFIC MONITORING PEDESTAL MOUNT CABINET.

RIGHT OF WAY



AERIAL AND RIGHT OF WAY DATA PROVIDED BY THE MARION COUNTY PROPERTY APPRAISER (MARCH 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.

REVISIONS	
DATE	DESCRIPTION

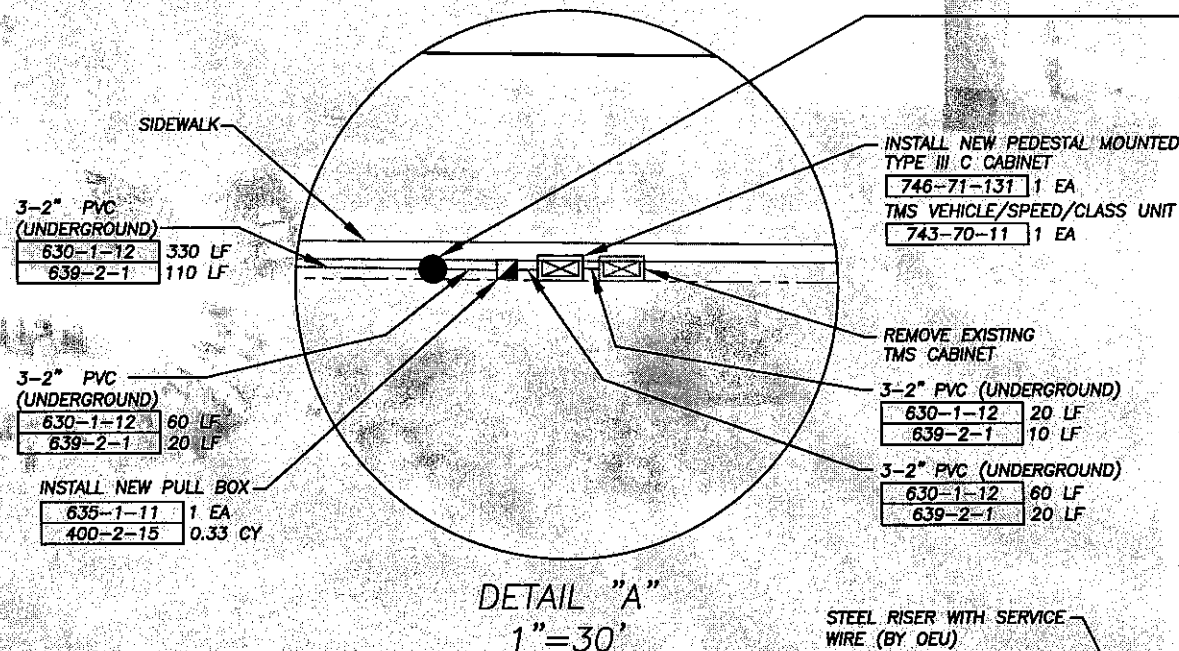
DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TRAFFIC MONITORING STATIONS
SW 27TH AVENUE AT SR-40
STATION 99 (C-12)

SHEET NO.
46



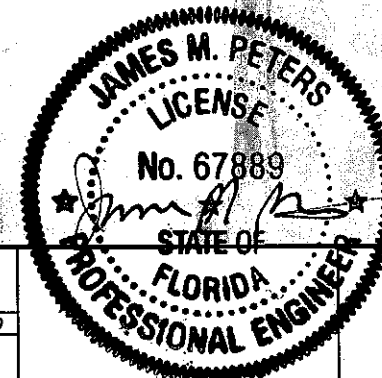
SERVICE POLE (TYPE P-II) WITH
METER HOUSING AND DISCONNECT
641-2-12 1 EA
639-1-22 1 AS (POWER SERVICE)
INSTALL YAGI ANTENNA, 900MHZ SERIAL
RADIO AND CONNECTING CABLES
(SEE SHEET 49)
784-6-13 1 EA
783-4-111 12 LF



SW 60TH AVENUE

CONTRACTOR SHALL:

1. NOTIFY THE CITY OF OCALA PUBLIC WORKS DEPARTMENT, TRAFFIC DIVISION AT LEAST (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT CAMILLE A. MATHEWS AT (352) 351-6733 CONCERNING ANY QUESTIONS.
2. FURNISH AND INSTALL TRAFFIC MONITORING PEDESTAL MOUNT CABINET PER CITY OF OCALA AND FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION, AND F.D.O.T. DESIGN STANDARDS 2008 EDITION, INDEXES 17503, 17721, 17841, AND 17900 AT LEAST TWO FEET FROM OUTSIDE EDGE OF SIDEWALK. A TERMINAL STRIP AND A TELEPHONE DROP PANEL ARE TO BE SUPPLIED AND INSTALLED WITH A TYPE 3 CABINET FOR TERMINATING FIELD WIRE. THE CABINET SHALL BE WIRED TO THE BACKPLANES WITH A "J" & "P" AMPHENOL CLASSIFICATION AND STREETEER # AMET 241A 28-12 HARNESS.
3. FURNISH AND INSTALL UNDERGROUND ELECTRIC POWER SERVICE ASSEMBLY AS PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2008 EDITION SECTION 639 AND F.D.O.T. DESIGN STANDARDS 2008 EDITION INDEX 17738.
4. FURNISH AND INSTALL YAGI ANTENNA (MDS CLEARWAVE 97-3194-A14 OR EQUIVALENT), 900 MHZ REMOTE RADIO (ENCOM MODEL 5200 OR EQUIVALENT) AT TRAFFIC MONITORING LOCATION, (MASTER RADIO AT SW 20TH STREET AND SW 60TH AVENUE) (SEE SHEET 49), AND CONNECTING CABLES (PEEK COMPUTER SERIAL CABLE MODEL G1120087 OR EQUIVALENT AND DATA CABLES) NEEDED TO RUN WIRELESS CONNECTION THAT SHALL BE MADE BY A SYSTEM IN AN END TO END FASHION, USING 900 MHZ WIRELESS TECHNOLOGY CONNECTING TO THE END DEVICE AND SOFTWARE RUNNING ON THE PC HOSTING THE APPLICATION.
5. SHOULD FIELD ADJUSTMENTS BE NEEDED CONTACT CAMILLE A. MATHEWS @ 352-351-6733.
6. 746-71-131 SHALL INCLUDE LABOR AND MATERIALS FOR CONCRETE BASE AND PAD FOR TRAFFIC MONITORING PEDESTALS MOUNT CABINET.



AERIAL AND RIGHT OF WAY DATA PROVIDED BY
THE MARION COUNTY PROPERTY APPRAISER
(MARCH 2009)

ALL UTILITIES ARE APPROXIMATE AND SHOULD
BE FIELD VERIFIED.

TRAFFIC MONITORING STATIONS
SW 60TH AVENUE AT SW 20TH STREET
STATION 148 (G-10)

SHEET
NO.

47

REVISIONS	
DATE	DESCRIPTION

DKS Associates TRANSPORTATION SOLUTIONS
Tindale-Oliver & Associates, Inc. Planning and Engineering

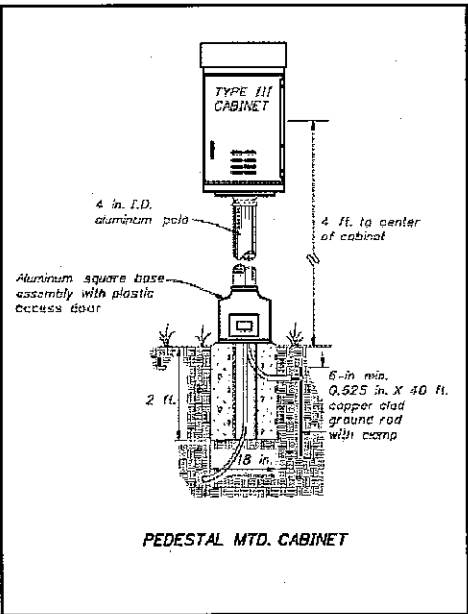
OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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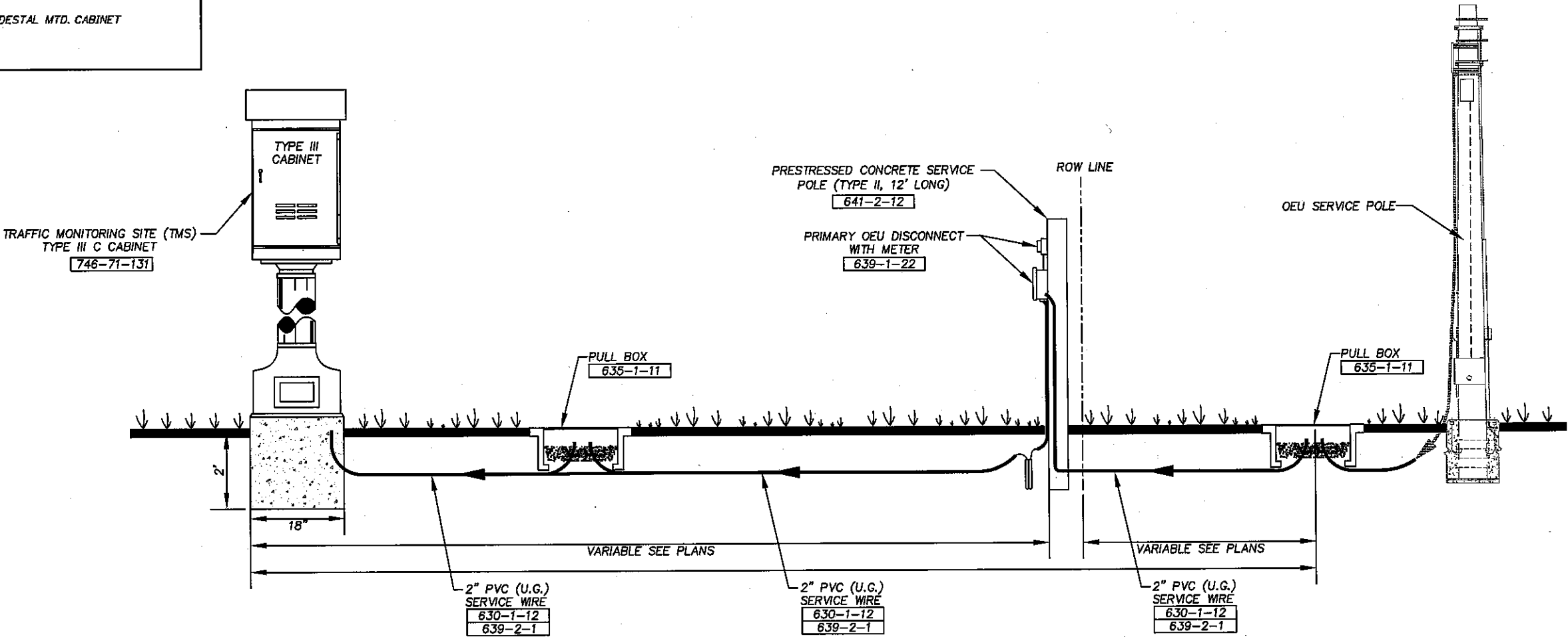
3/9/2010

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THE CITY OF OCALA UTILITY SERVICES WILL INSTALL THE RISER CONDUIT ON THE EXISTING OEU SERVICE POLE, INSTALL THE CONDUCTOR IN THE RISER AND THROUGH THE CONTRACTOR-SUPPLIED STUB-UP TO THE OEU VAULT. THE CITY OF OCALA UTILITY SERVICES WILL ALSO INSTALL THE VAULT AND ENERGIZE THE CONDUCTOR AT THE TRANSFORMER.



FDOT STANDARD INDEX 17900
(SHEET 7 OF 7)
PEDASTAL MOUNTED CABINET



JAMES M. PETERS
LICENSE
No. 67889
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
3/9/10

REVISIONS	
DATE	DESCRIPTION

DKS Associates
TRANSPORTATION SOLUTIONS

Tindale-Oliver & Associates, Inc.
Planning and Engineering

OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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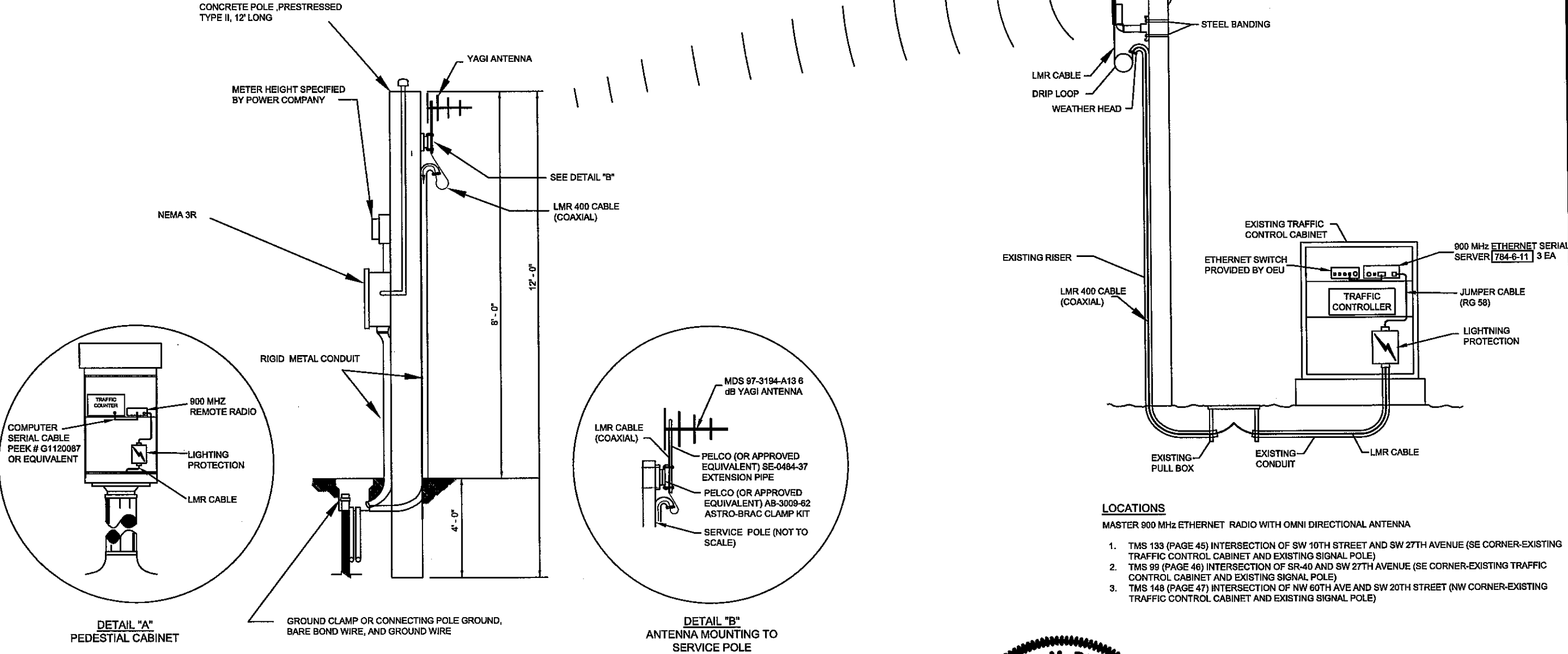
TRAFFIC MONITORING STATION -
POWER SOURCE TYPICAL

SHEET
NO.
48

CONTRACTORS RESPONSIBILITIES

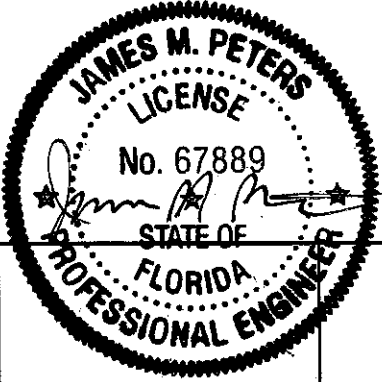
1. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLATION, TESTING AND FUNCTIONABILITY OF COMMUNICATION PAY ITEMS 784-6-11 AND 784-6-13 (SEE GENERAL NOTES ON SHEET 7).
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTING CABLES INCLUDING BUT NOT LIMITED TO: ANTENNA, ETHERNET, POWER, SERIAL AND DATA CONNECTIONS, TO INSURE PROPER OPERATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL MOUNTING HARDWARE AND LIGHTING PROTECTION.
4. ANTENNA CABLE SHALL BE LMR400 WITH FACTORY WEATHER SEALED CONNECTORS.
5. CONTRACTOR SHALL FURNISH AND INSTALL VIRTUAL COMMUNICATIONS PORT DRIVER TO RUN THIS WIRELESS CONNECTION THAT SHALL BE MADE BY A SYSTEM IN AN END TO END FASHION TO THE END DEVICE AND SOFTWARE RUNNING ON THE PC HOSTING THE APPLICATION.

MOUNT OMNI DIRECTIONAL ANTENNA, (ENCOM MODEL # 160 OR EQUIVALENT) 3' BELOW TOP OF POLE (OR IN APPROPRAITE LOCATION ON TOP OF THE POLE TO AVOID ANY CONFLICTS WITH EXISTING CABLES) (PAID UNDER #784-6-11)



LOCATIONS

- MASTER 900 MHz ETHERNET RADIO WITH OMNI DIRECTIONAL ANTENNA
1. TMS 133 (PAGE 45) INTERSECTION OF SW 10TH STREET AND SW 27TH AVENUE (SE CORNER-EXISTING TRAFFIC CONTROL CABINET AND EXISTING SIGNAL POLE)
 2. TMS 99 (PAGE 46) INTERSECTION OF SR-40 AND SW 27TH AVENUE (SE CORNER-EXISTING TRAFFIC CONTROL CABINET AND EXISTING SIGNAL POLE)
 3. TMS 148 (PAGE 47) INTERSECTION OF NW 60TH AVE AND SW 20TH STREET (NW CORNER-EXISTING TRAFFIC CONTROL CABINET AND EXISTING SIGNAL POLE)



REVISIONS		DKS Associates TRANSPORTATION SOLUTIONS	OCALA/MARION COUNTY TRANSPORTATION PLANNING ORGANIZATION			TRAFFIC MONITORING STATION COMMUNICATION DETAIL	SHEET NO. 49
DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		Tindale-Oliver & Associates, Inc. Planning and Engineering	---	---	---		