

VILLAGE OF PALMETTO BAY SW 87 AVE (AREA 1) DRAINAGE IMPROVEMENTS



ID: 2016-DTM-MISC-00064

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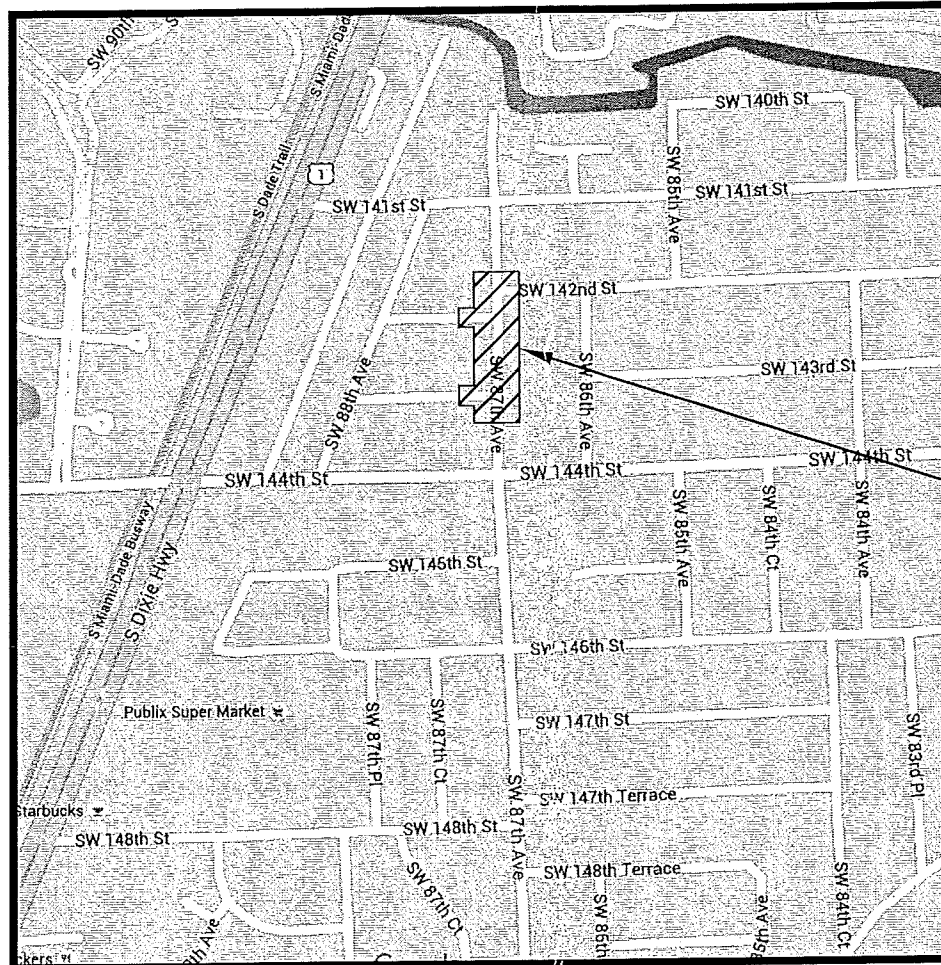
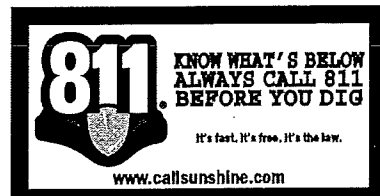
App. Name: PAVING & DRAINAGE REVIEW

Date: 08/02/2016

Reviewer:

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS

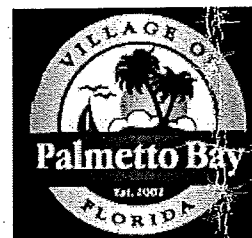


DERM
PROJECT PLAN REVIEW
LOCATION FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (GRAND): *Miguel de Armas*
SIGNATURE _____ DATE *8-31-2016*

LOCATION SKETCH



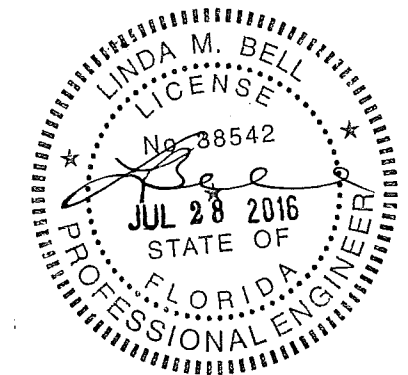
PREPARED FOR:
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6/29/16 PERMIT SET

ENGINEER OF RECORD: LINDA BELL, P.E.
P.E.: #38542

PREPARED BY:
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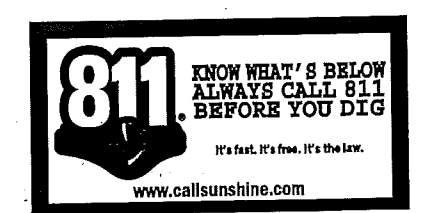
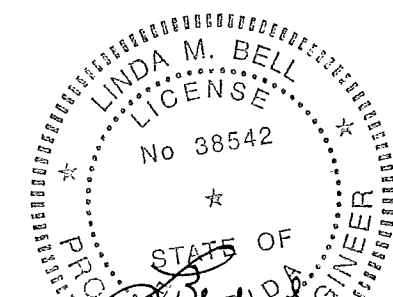
GENERAL NOTES

- ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
- ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
- IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
- WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
- ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
- EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
- CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
- STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.

- ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
- ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
- EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
- CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
- CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
- CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
- ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
- CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
- SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
- EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

- WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
- COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
- PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-1, S3-1, S4-1, AND S5-1, 4 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 87 AVE (AREA 1)

REVISIONS				Date	06/08/2016
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

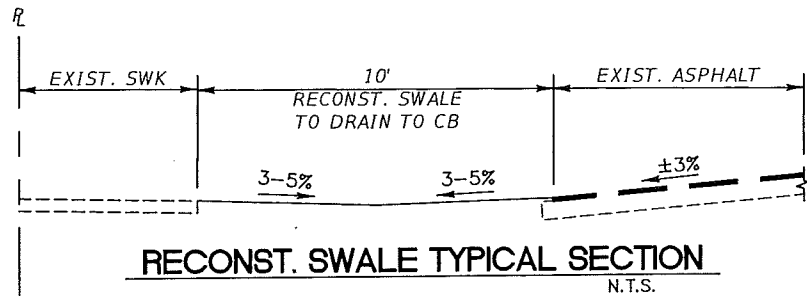
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GENERAL NOTES	C-2
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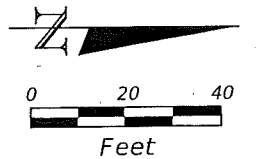
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RECONST. SWALE TYPICAL SECTION
N.T.S.

EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.



LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE (CONCRETE)
- SIGN WIRING PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- DRIVEWAY RECONSTRUCTION
- FLOW DIRECTION
- PERC. TEST

PAVEMENT RESTORATION

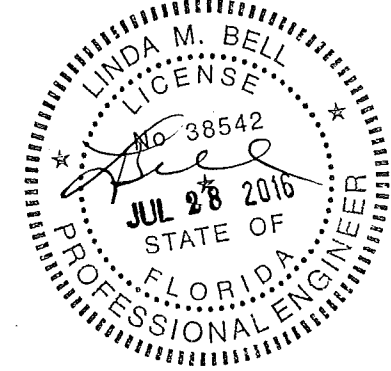
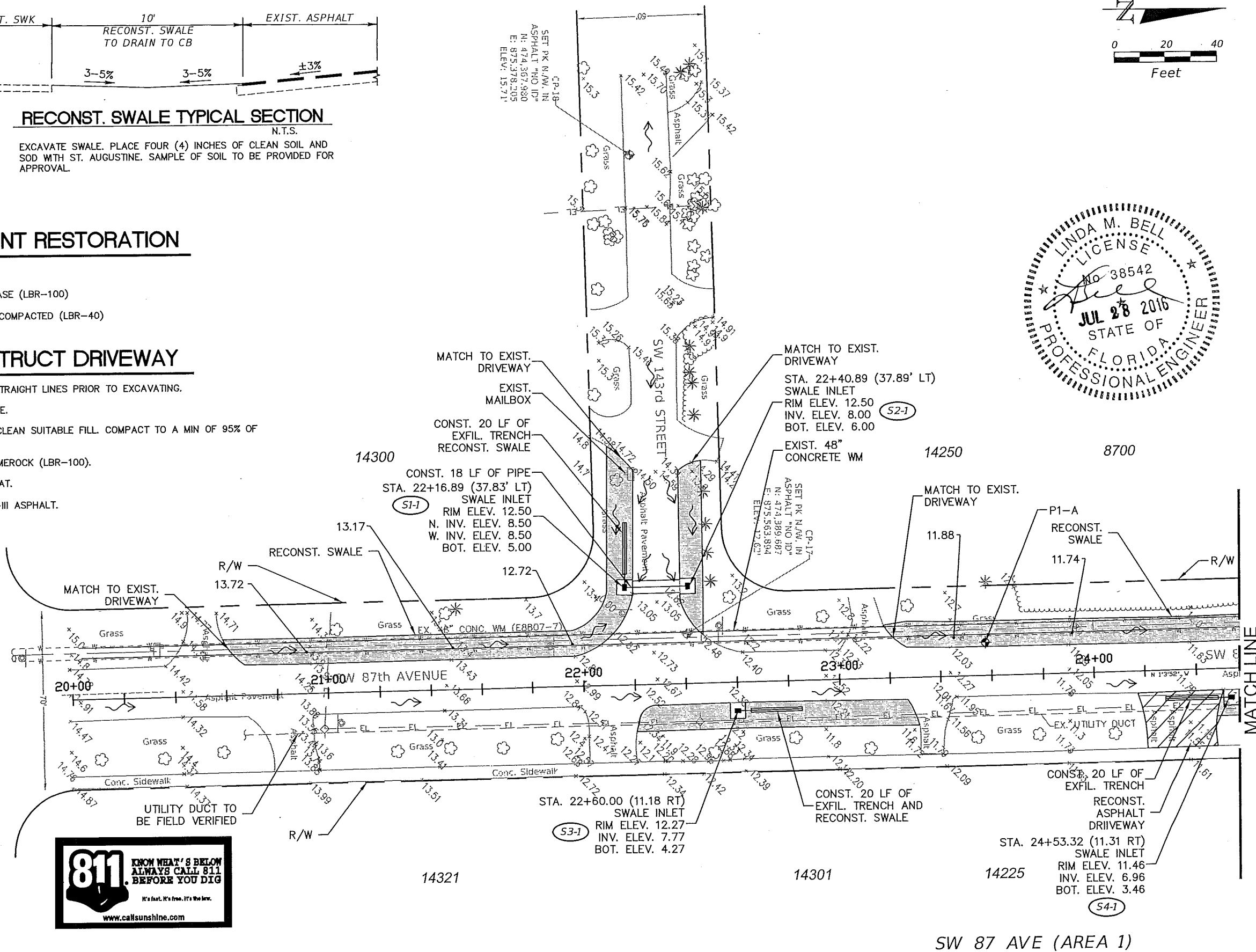
- 1 1/2" ASPHALT
- 6" LIMEROCK BASE (LBR-100)
- 12" SUBGRADE COMPACTED (LBR-40)

RECONSTRUCT DRIVEWAY

1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONST. DRAINAGE.
3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 95% OF MAX DENSITY.
4. PLACE 6" OF LIMEROCK (LBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF S-III ASPHALT.

LINES TYPE:

- OVERHEAD UTILITY LINE
- FENCE
- RIGHT OF WAY LINE
- PAVEMENT MARKS
- VEGETATION LINE



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			06/08/2016		
					Drawn RLR
					Checked VS
					Manager Linda Bell, P.E.
					Submittal 100%

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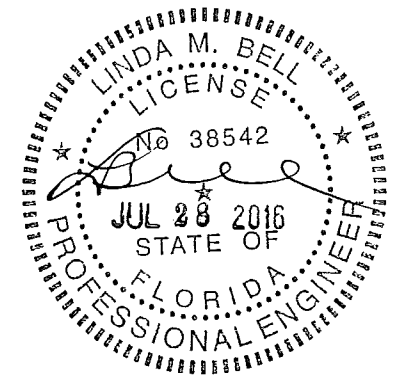
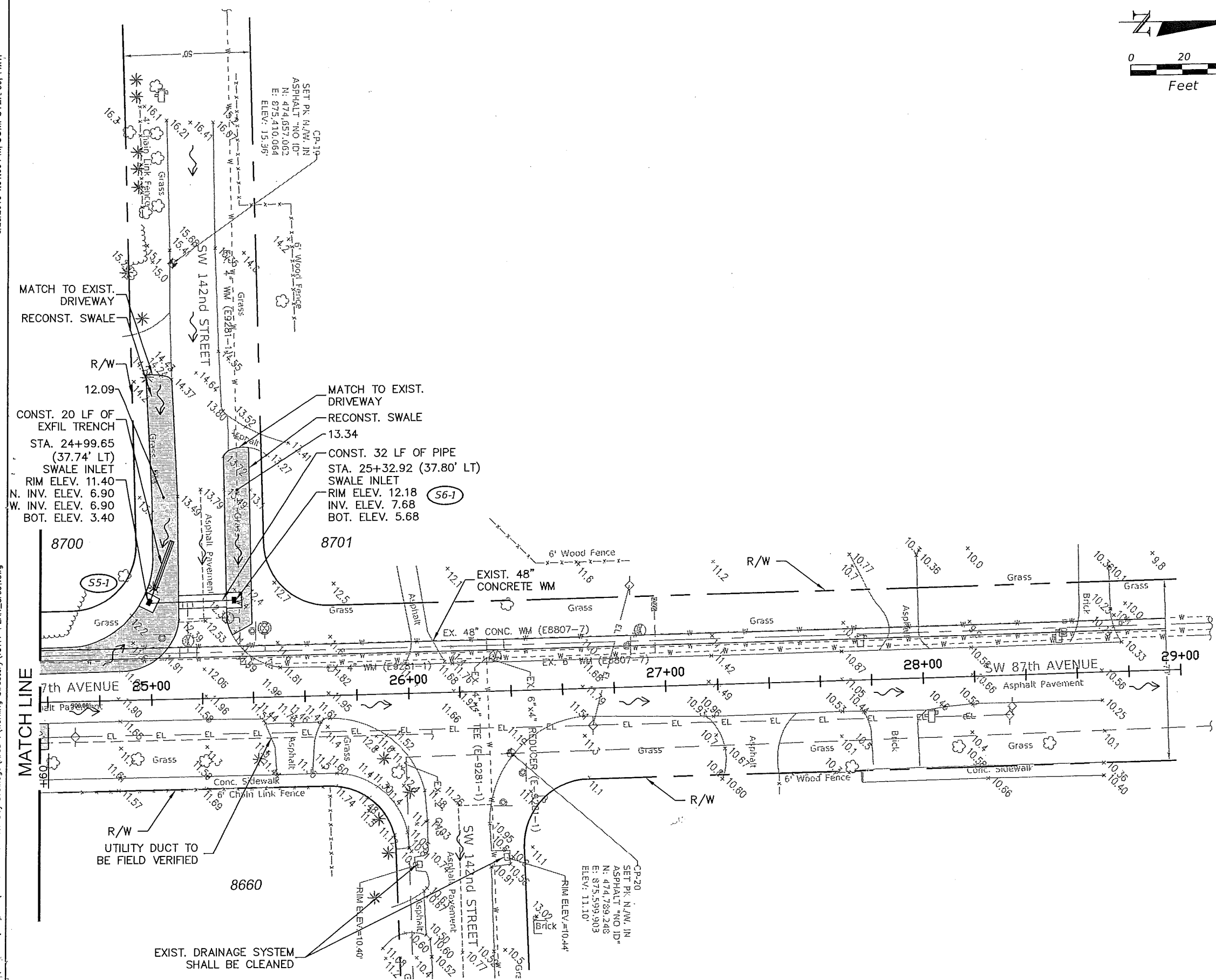
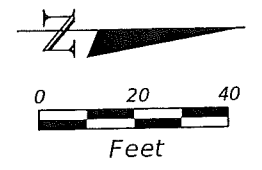
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LINDA BELL, P.E.
FL NO. 38542

SW 87 AVE (AREA 1)

DRAINAGE PLAN

C-3



SW 87 AVE (AREA 1)

REVISIONS		Date
DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%



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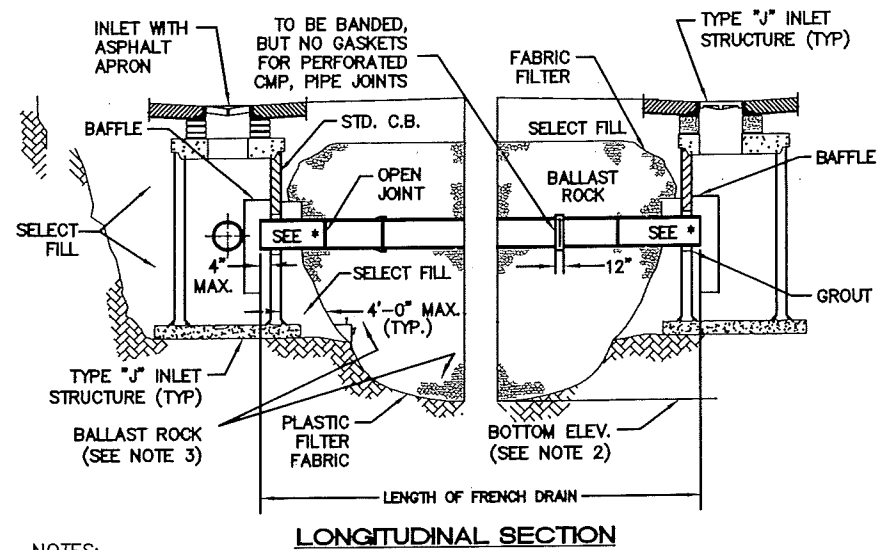
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DRAINAGE PLAN

C-4

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LONGITUDINAL SECTION

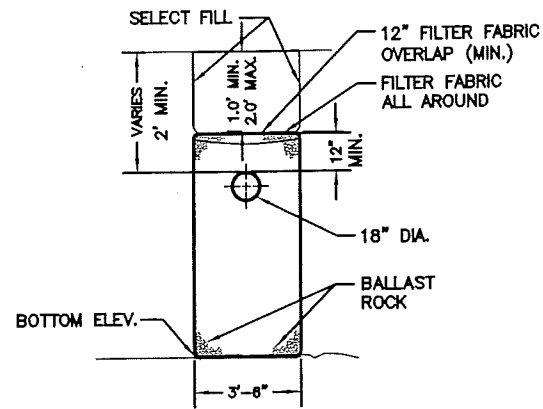
NOTES:

1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.0' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

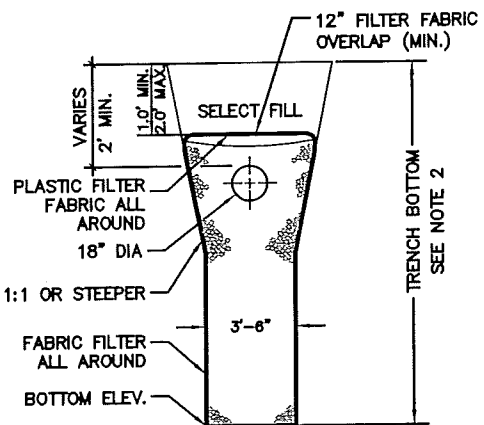
EXFILTRATION DETAIL (MDPW SD 1.1)

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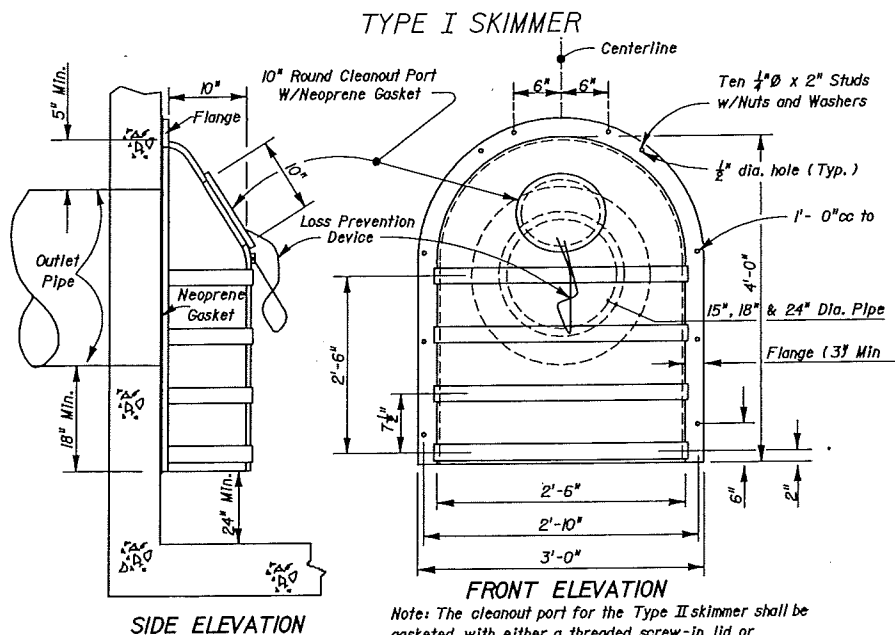
TRANSVERSE SECTION

N.T.S.



ALT. TRANS. SECTION

N.T.S.

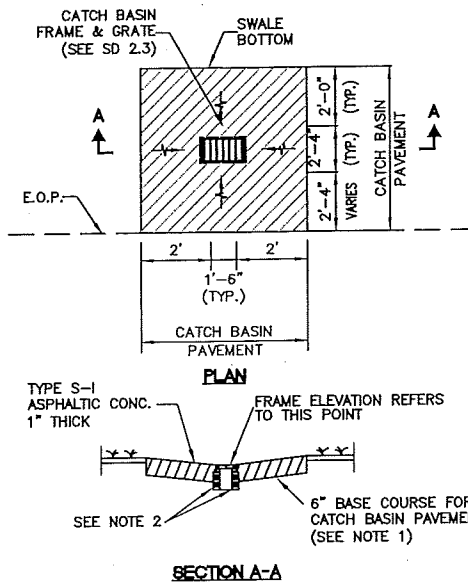


TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241

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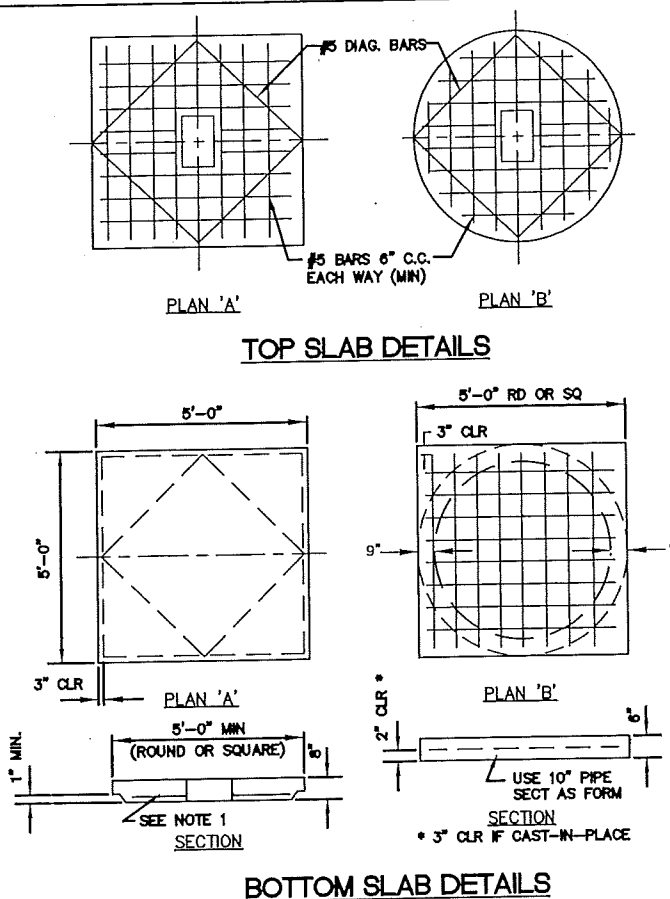
Note: The cleanout port for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches



- NOTES:
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

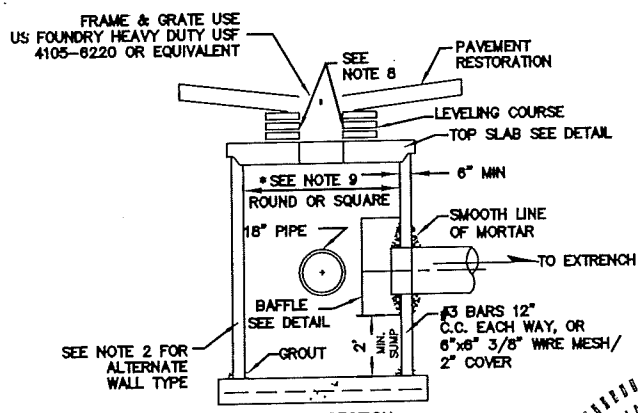
CATCH BASIN ASPHALT APRON DETAIL

N.T.S.



TOP SLAB DETAILS

BOTTOM SLAB DETAILS

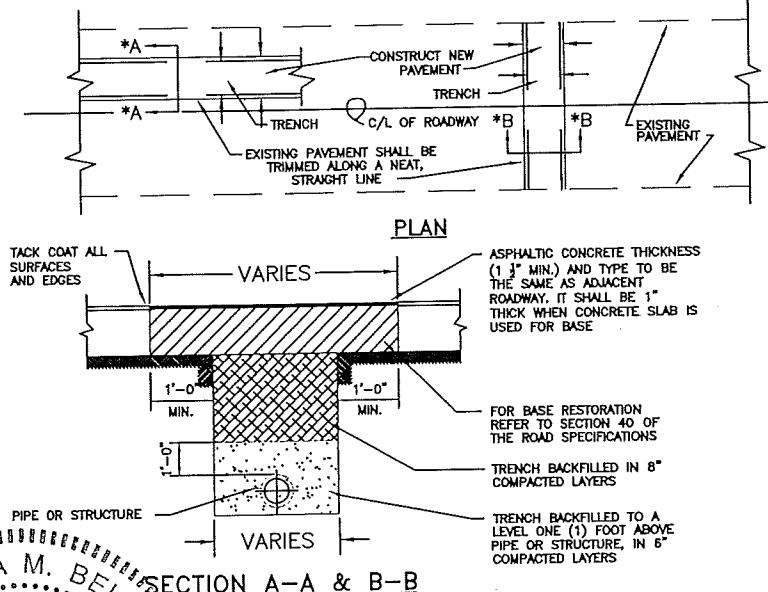


PRECAST CATCH BASIN

N.T.S.

- NOTES:
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M DESIGNATION CLASS C 78 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
 5. USE 3,000 PSI CONCRETE (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FOOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.6
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.

- NOTES:
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL LIE SOLELY WITH THE CONTRACTOR.
 10. WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPY COPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS.
 - 12.d. TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

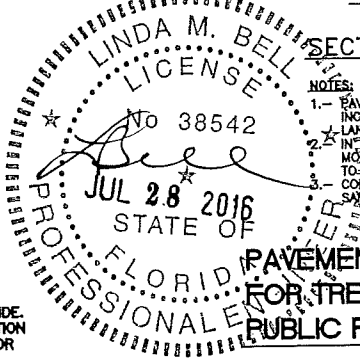


SECTION A-A & B-B

- NOTES:
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 2. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:1 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

N.T.S.



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SW 87 AVE (AREA 1)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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CWI Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17 ST., Suite 108
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DRAINAGE DETAILS

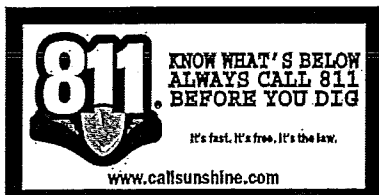
DERM PLAN REVIEW FINAL APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (PRINT): MARLA TOR
SIGNATURE [Signature] DATE 8.5.16

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS

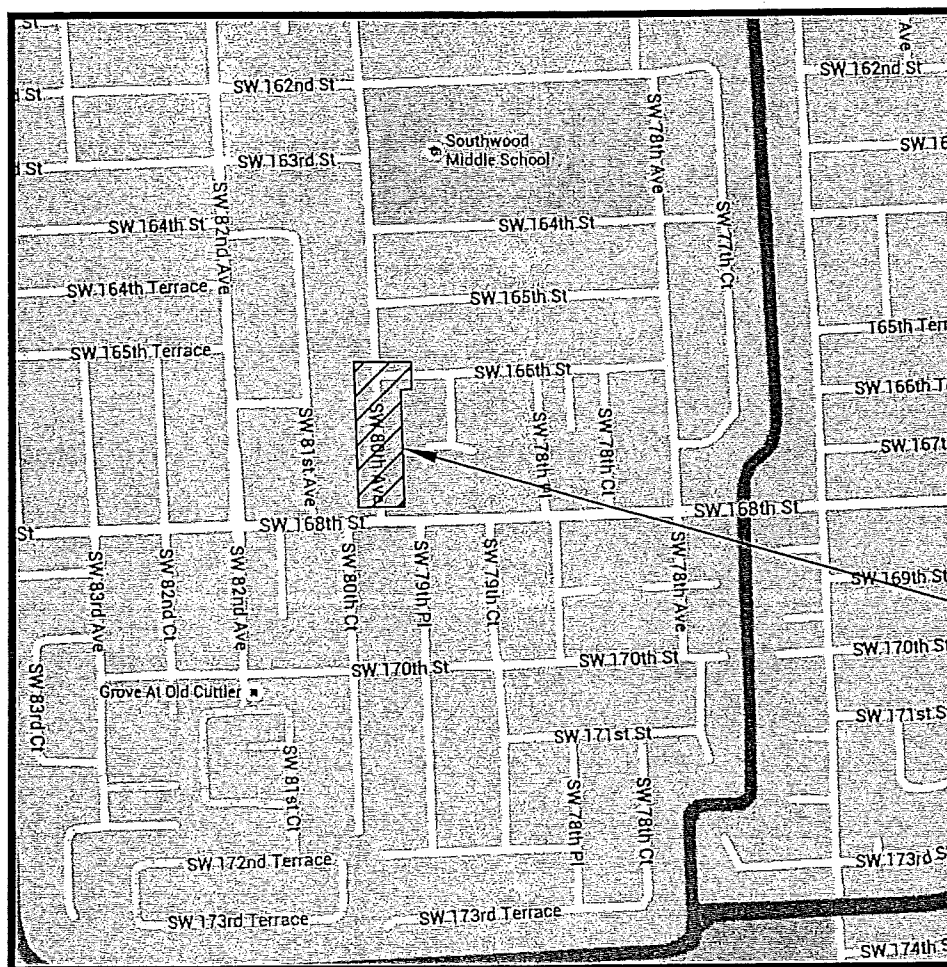


ID: 2016-DTM-MISC-00065

Contact Name: RAMON ALVAREZ
 Contact Phone: 3055058477
 Folio: 33-5027-035-0010
 App. Name: PAVING & DRAINAGE REVIEW
 Date: 08/02/2016
 Reviewer:

ENGINEER OF RECORD: LINDA BELL, P.E.
 P.E.: #38542

VILLAGE OF PALMETTO BAY SW 80 AVE (AREA 2) DRAINAGE IMPROVEMENTS



PROJECT
LOCATION

LOCATION SKETCH



PREPARED FOR:
 VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
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 PALMETTO BAY, FL 33157
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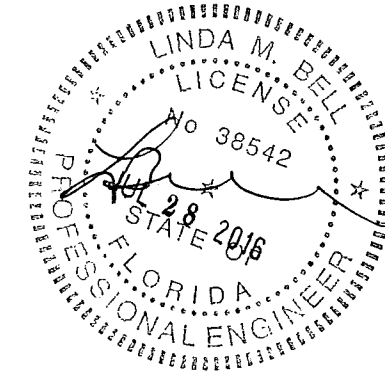
Village of Palmetto Bay
 Department of Public Services
 Plan Reviewed By: [Signature]
 Signature _____ Date _____

6/8/16 90% PROGRESS SET

PREPARED BY:

CWI Civil Works, Inc.

CONSULTING ENGINEERS
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 DORAL, FL 33126
 (305) 591-4323
 CA 07528
 Miami ♦ Coral Springs ♦ Orlando



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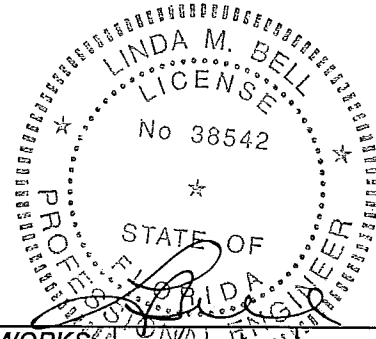
GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.

17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-2, AND S2-2, 2 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 80 AVE (AREA 2)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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PAVEMENT RESTORATION

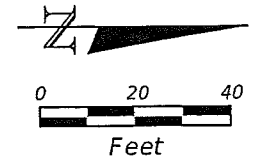
- 1 1/2" ASPHALT
- 6" LIMEROCK BASE (LBR-100)
- 12" COMPACTED SUBGRADE (LBR-40)

RECONSTRUCT DRIVEWAY

- 1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
- 2. CONST. DRAINAGE.
- 3. BACKFILL WITH CLEAN SUITABLE FILL, COMPACT TO A MIN OF 95% OF MAX DENSITY.
- 4. PLACE 6" OF LIMEROCK (LBR-100).
- 5. PLACE TACK COAT.
- 6. PLACE 1" OF S-III ASPHALT.

RECONSTRUCT SIDEWALK

- 1. SAWCUT NEAREST JOINT.
- 2. CONST. DRAINAGE.
- 3. BACKFILL PER MIAMI-DADE SPECS.
- 4. PLACE SIX (6) INCHES OF CLOTH SUITABLE FILL COMPACTED TO A MIN OF 95% MAX DENSITY.
- 5. CONST. CONC. SIDEWALK PER MIAMI-DADE COUNTY STANDARDS AND SPECS.

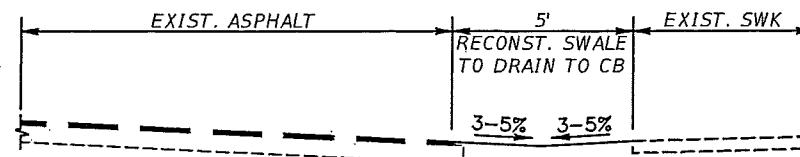
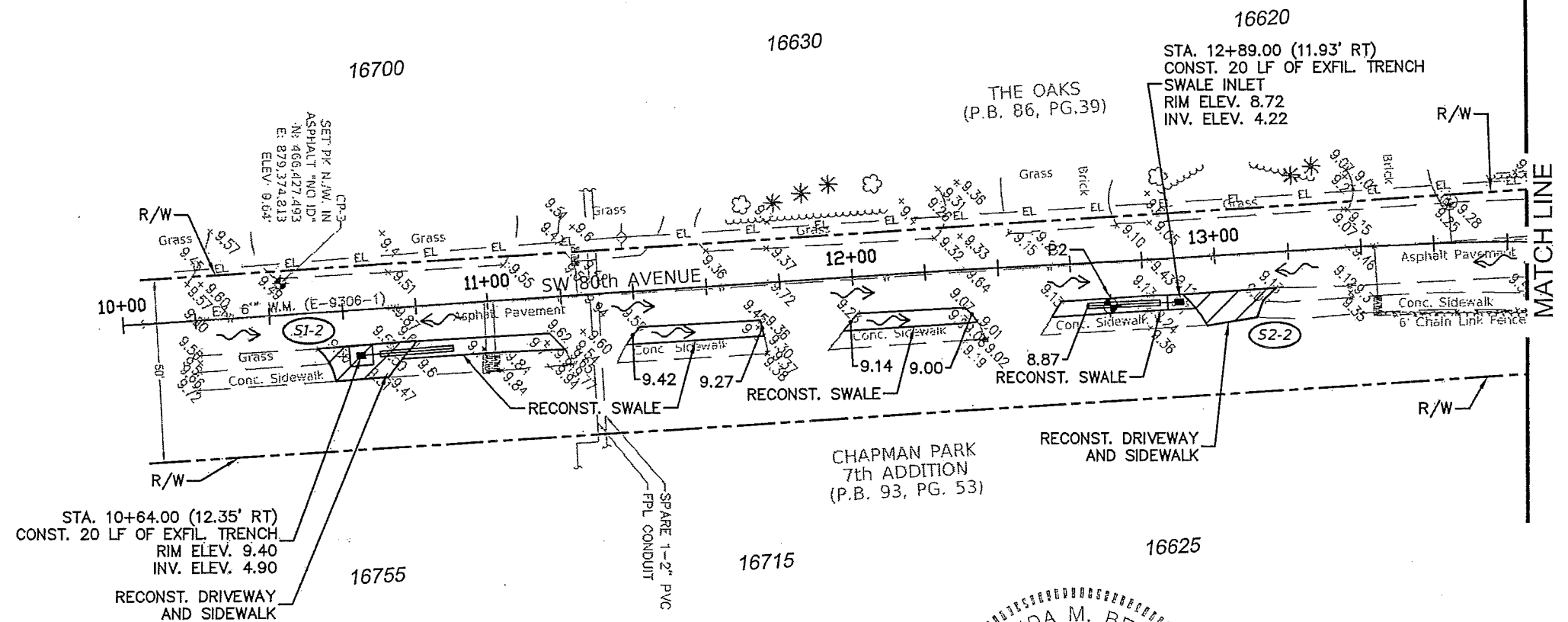


LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE(CONCRETE)
- SIGN
- WIRING PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- PERCOLATION TEST LOCATION

LINES TYPE:

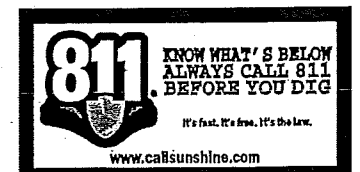
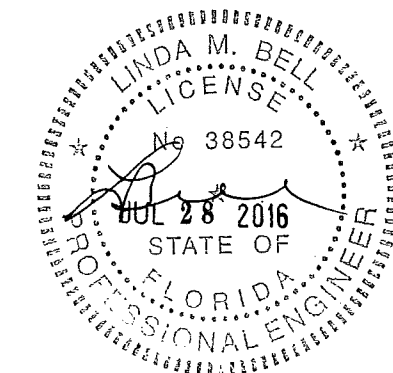
- OVERHEAD UTILITY LINE
- FENCE
- RIGHT OF WAY LINE
- PAVEMENT MARKS
- VEGETATION LINE



RECONST. SWALE TYPICAL SECTION

N.T.S.

EXCAVATE SWALE, PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.



SW 80 AVE (AREA 2)

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LINDA BELL, P.E.
 FL. NO. 38542

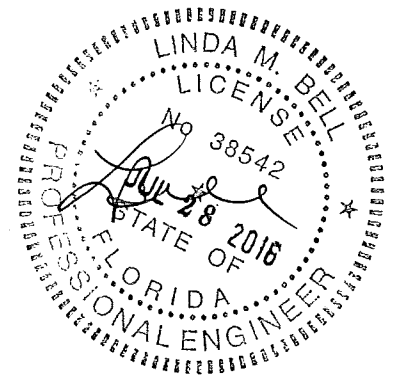
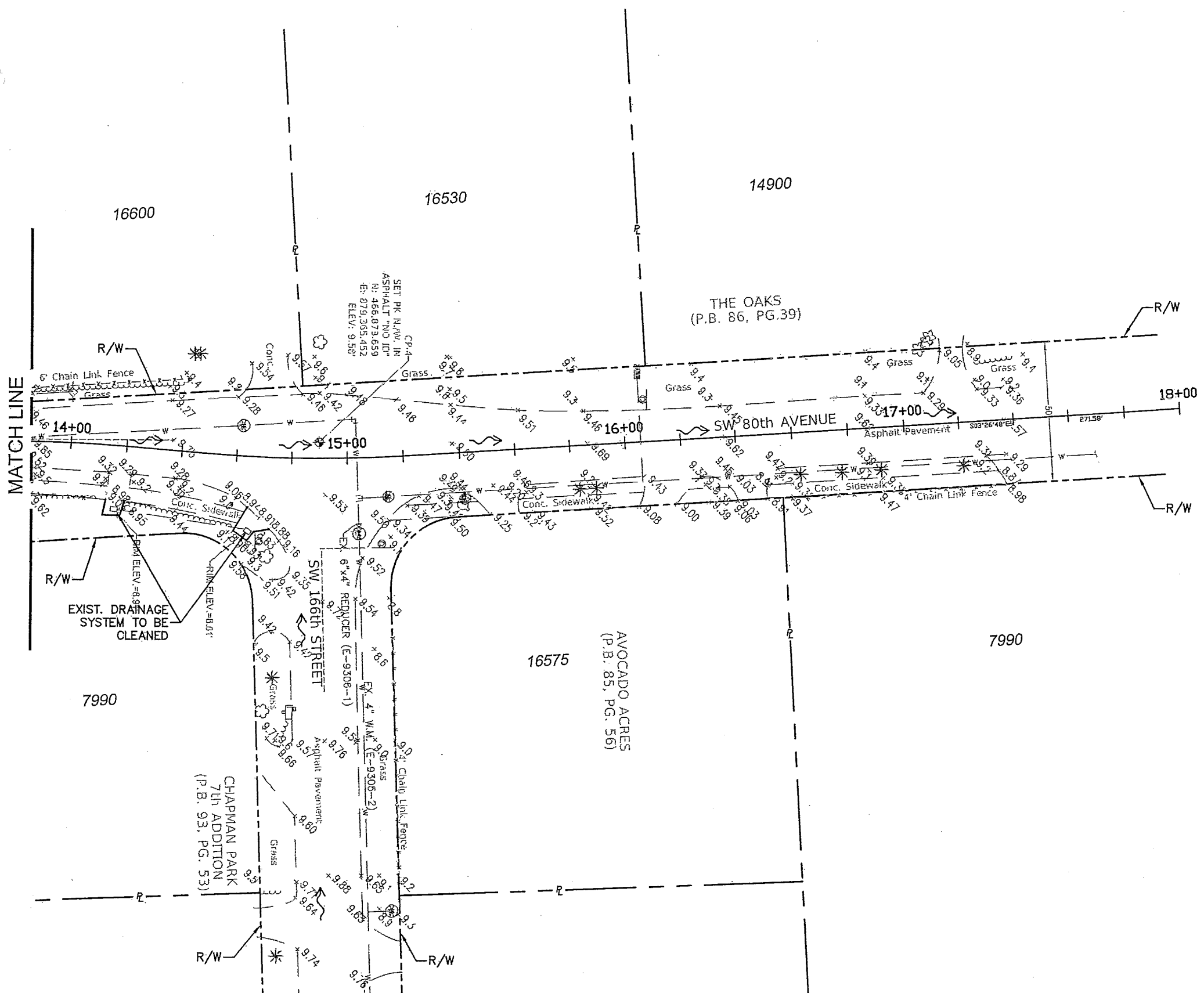
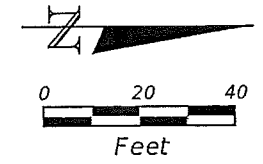
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DRAINAGE PLAN

C-3

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SW 80 AVE (AREA 2)

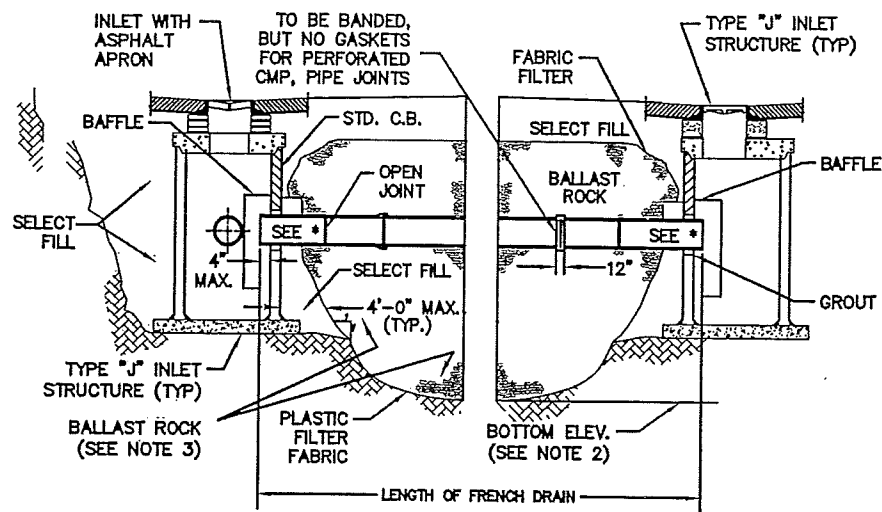
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DRAINAGE PLAN



LONGITUDINAL SECTION

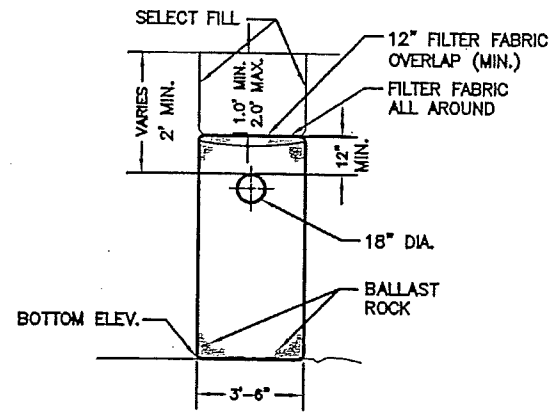
NOTES:

1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

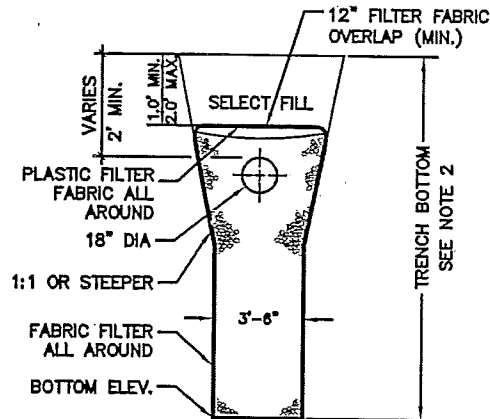
* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

EXFILTRATION DETAIL (MDPW SD 1.1)

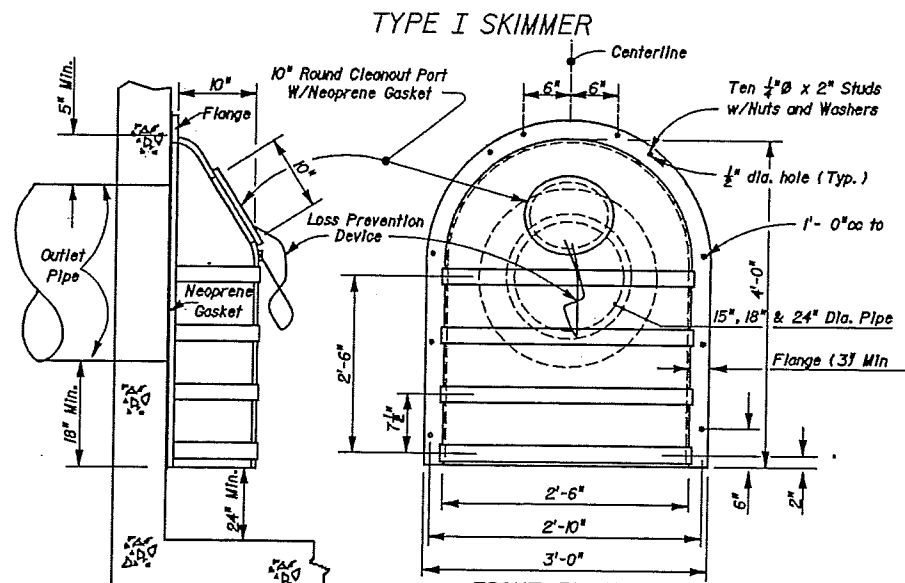
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TRANSVERSE SECTION N.T.S.



ALT. TRANS. SECTION N.T.S.



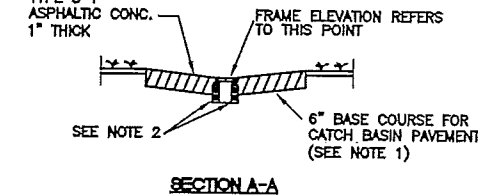
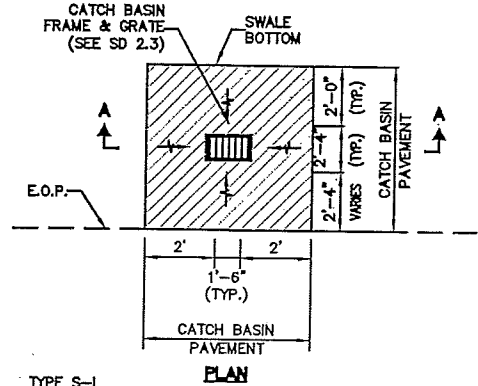
TYPE I SKIMMER

Notes: The cleanout port for the Type I skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches

TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241

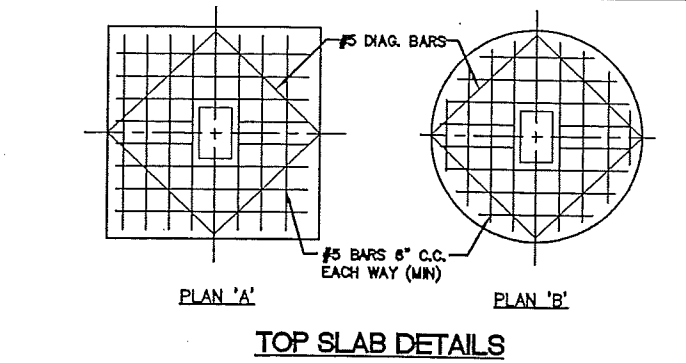
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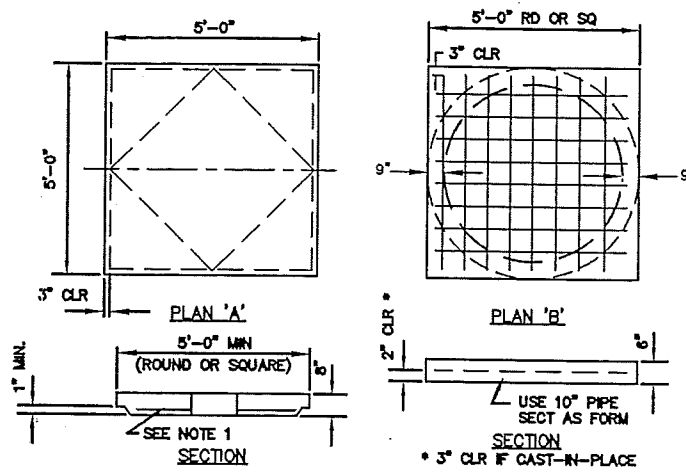
- NOTES:
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

CATCH BASIN ASPHALT APRON DETAIL

N.T.S.



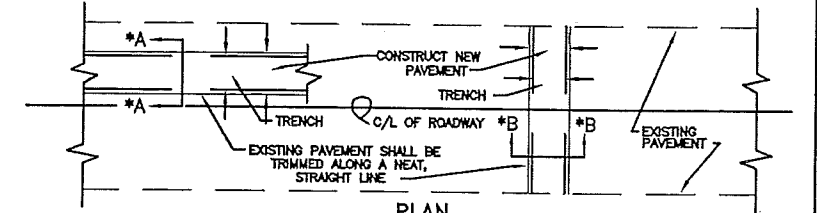
TOP SLAB DETAILS



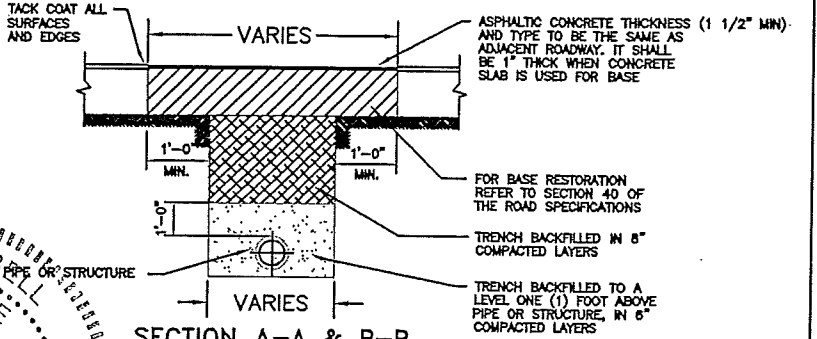
BOTTOM SLAB DETAILS

NOTES:

1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHOEVER IS MORE STRINGENT SHALL APPLY.
2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL LIE SOLELY WITH THE CONTRACTOR.
10. - WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. - SUBGRADE THICKNESS AND MINIMUM LER-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. - LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. - ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS.
 - 12.d. - TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. - COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.



PLAN

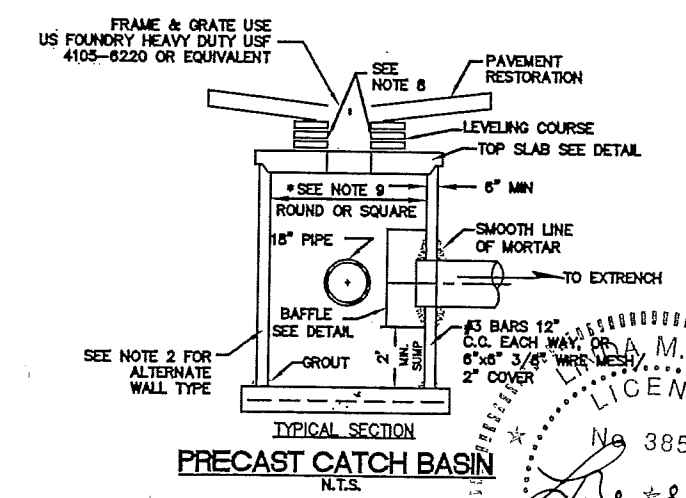


SECTION A-A & B-B

- NOTES:
1. - PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
 2. - IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 3. - CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

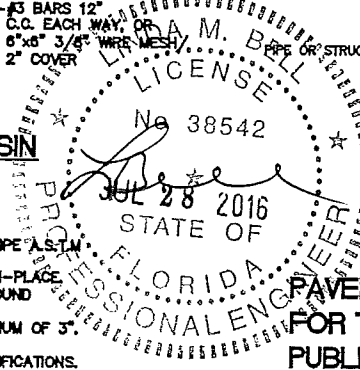
N.T.S.



PRECAST CATCH BASIN

N.T.S.

- NOTES:
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION CLASS C 78 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3'.
 5. USE 3,000 PSI CONCRETE. (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FOOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.6
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.



REVISIONS			
DATE	BY	DESCRIPTION	

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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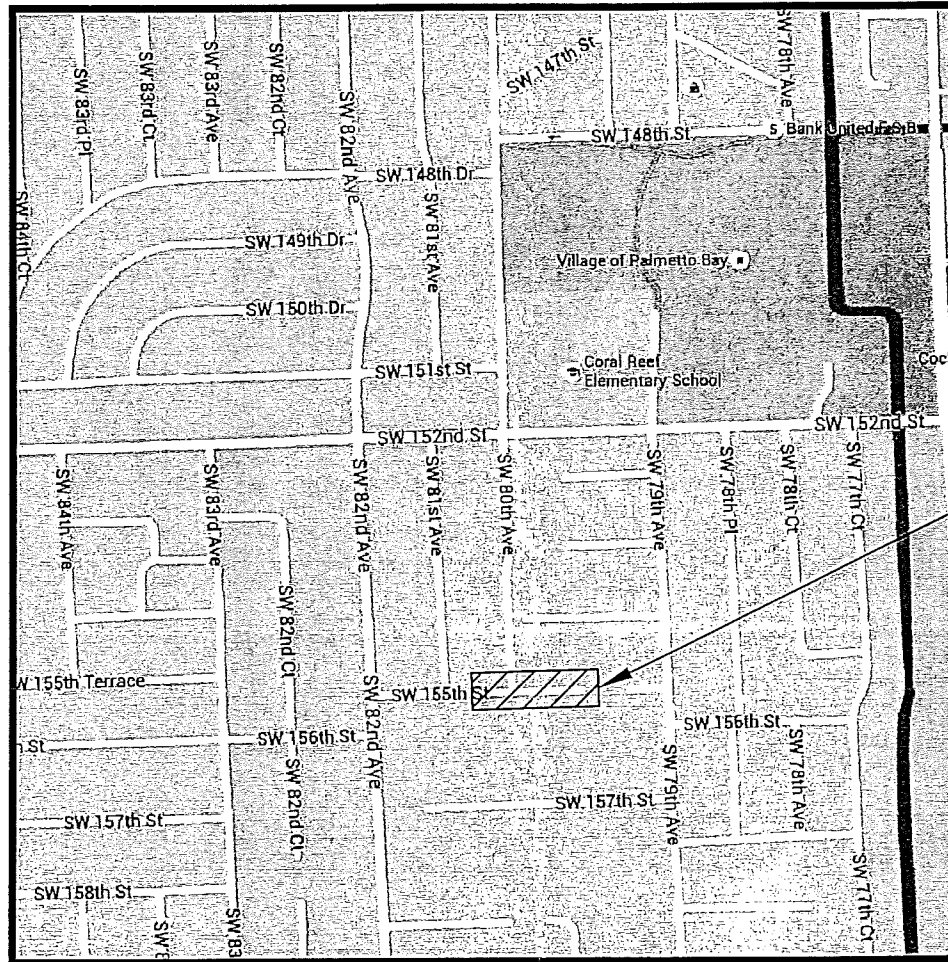
SW 80 AVE (AREA 2)
 DRAINAGE DETAILS
 C-5

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VILLAGE OF PALMETTO BAY SW 155 ST (AREA 3) DRAINAGE IMPROVEMENTS

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS



Village of Palmetto Bay
Department of Public Services
Plan Reviewed By: *[Signature]*
Signature _____ Date _____

PROJECT LOCATION
DERM
PLAN REVIEW
FINAL
APPROVAL

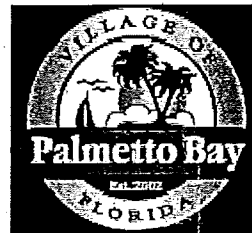
DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (PRINT): *Michael de Anna*

SIGNATURE _____ DATE *8-31-2016*

6/8/16 90% PROGRESS SET

LOCATION SKETCH

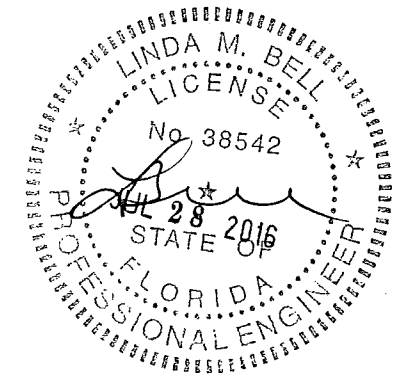


PREPARED FOR:
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PREPARED BY:

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CA 07528
Miami ♦ Coral Springs ♦ Orlando



ENGINEER OF RECORD: LINDA BELL, P.E.
P.E.: #38542

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURE S1-3, 1 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



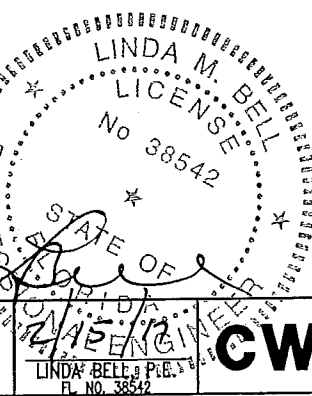
SW 155 ST (AREA 3)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%



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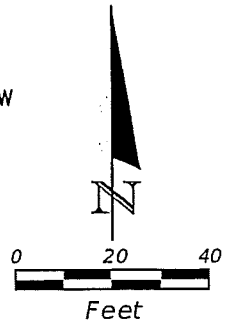
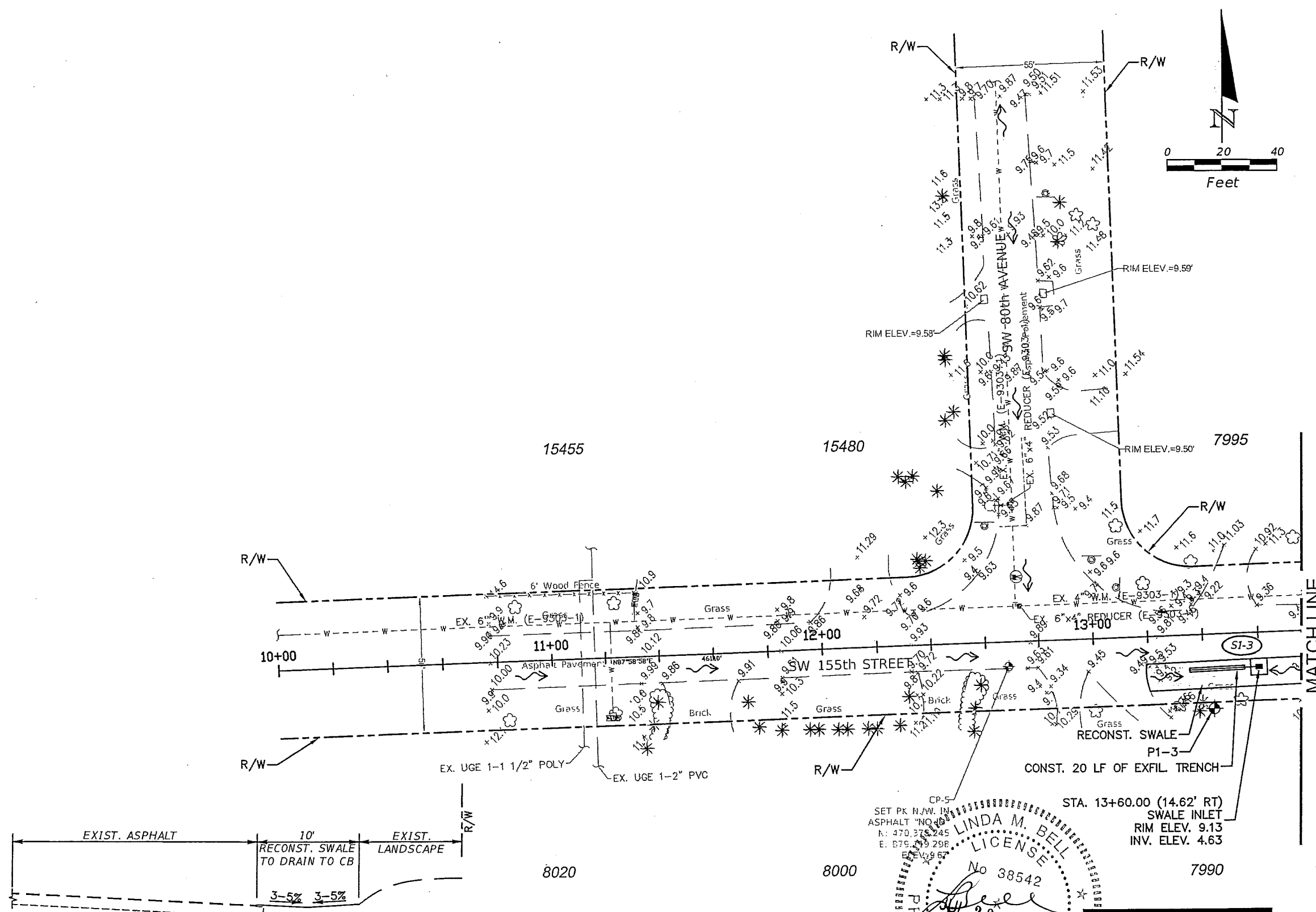
GENERAL NOTES

LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE(CONCRETE)
- SIGN
- WIRING PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- FLOW DIRECTION
- PERCOLATION TEST LOCATION

LINES TYPE:

- OVERHEAD UTILITY LINE
- FENCE
- RIGHT OF WAY LINE
- PAVEMENT MARKS
- VEGETATION LINE
- EXISTING WATERMAIN



RECONST. SWALE TYPICAL SECTION
N.T.S.

EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

CP-5
SET PK N/W. IN ASPHALT "NO. 1"
N: 479.378 245
E: 879.499 298
ELEV. 9.67

STA. 13+60.00 (14.62' RT)
SWALE INLET
RIM ELEV. 9.13
INV. ELEV. 4.63

LINDA M. BELL
LICENSE
No 38542
APR 28 2016
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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SW 155 ST (AREA 3)

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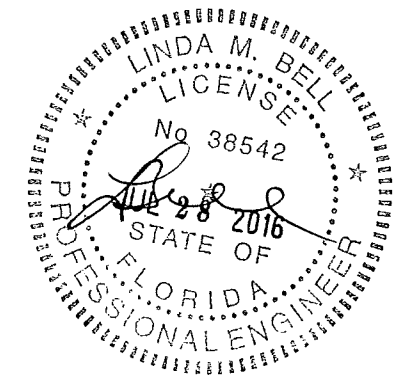
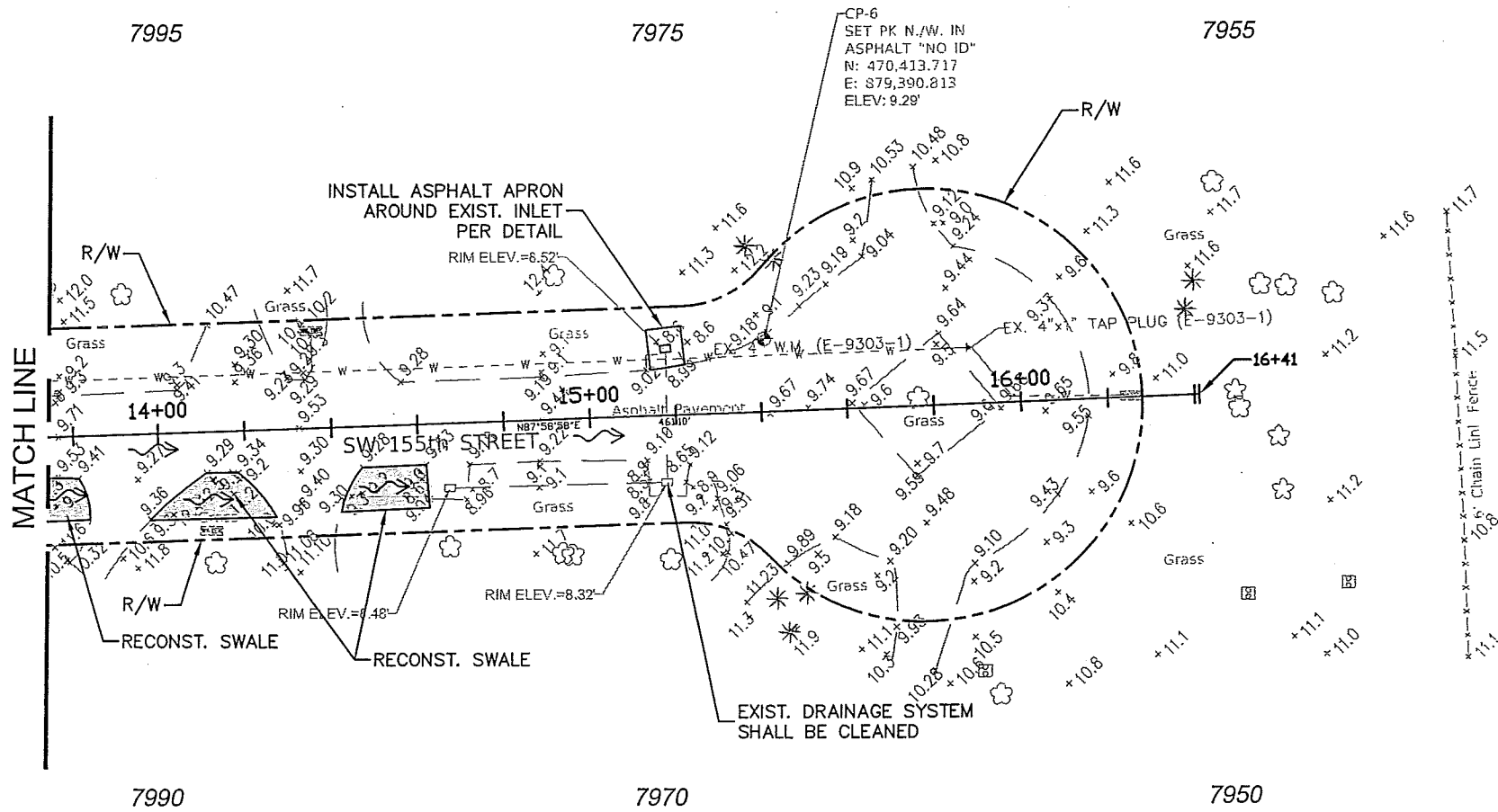
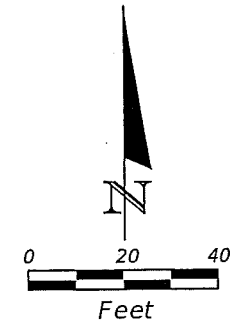
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Submittal	100%

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DRAINAGE SHEET



SW 155 ST (AREA 3)

REVISIONS					
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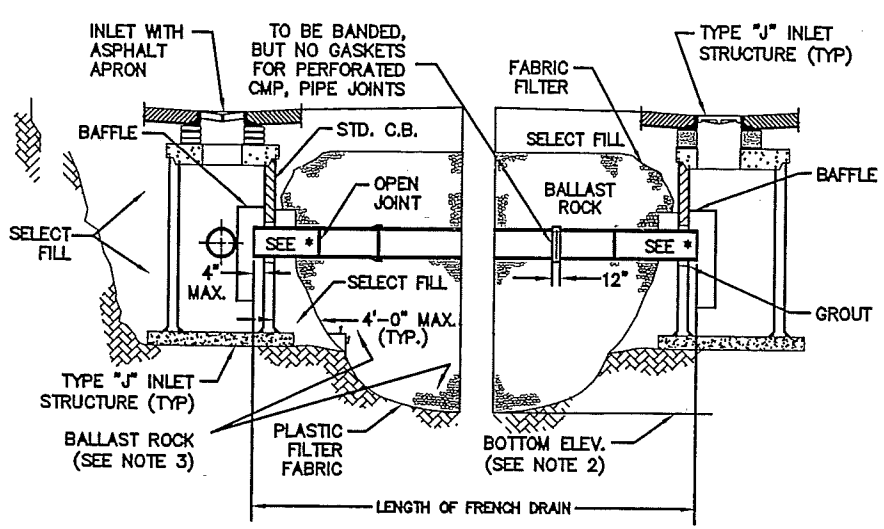


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DRAINAGE SHEET



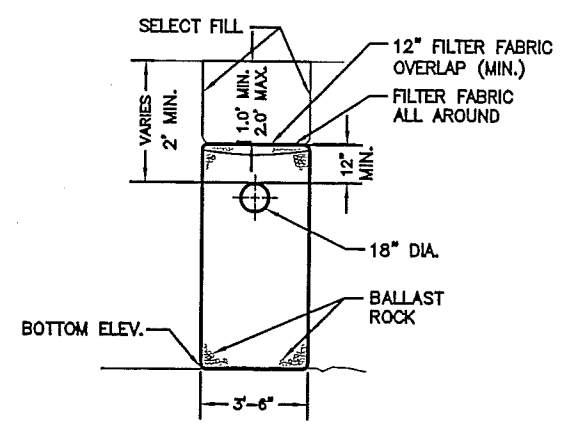
LONGITUDINAL SECTION

- NOTES:**
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

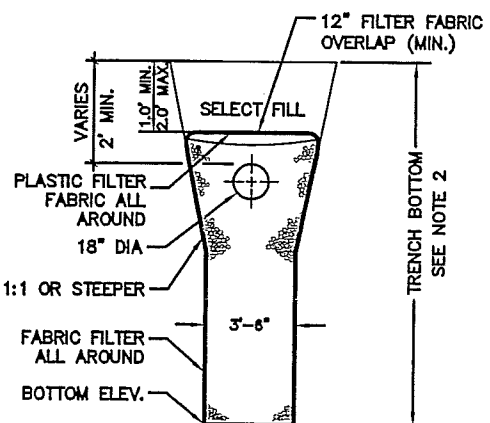
EXFILTRATION DETAIL (MDPW SD 1.1)

N.T.S.



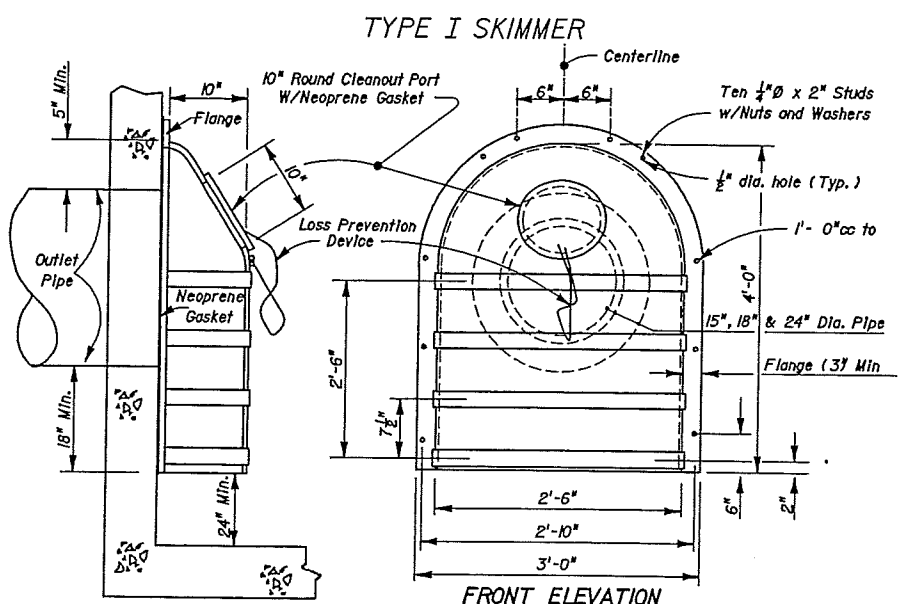
TRANSVERSE SECTION

N.T.S.



ALT. TRANS. SECTION

N.T.S.

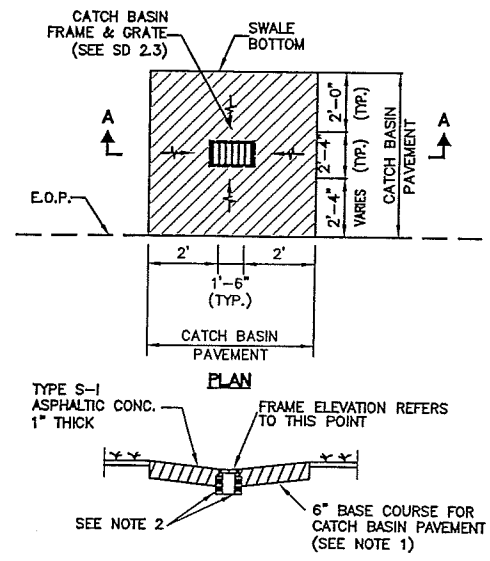


Note: The cleanout port for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches

TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241

N.T.S.

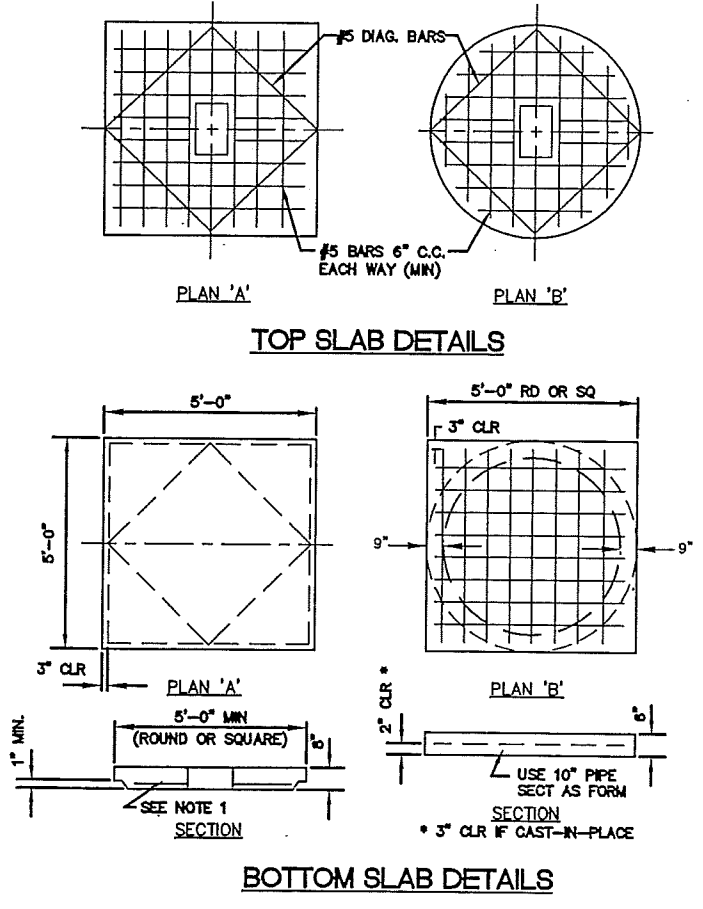


CATCH BASIN ASPHALT APRON DETAIL

NOTES:

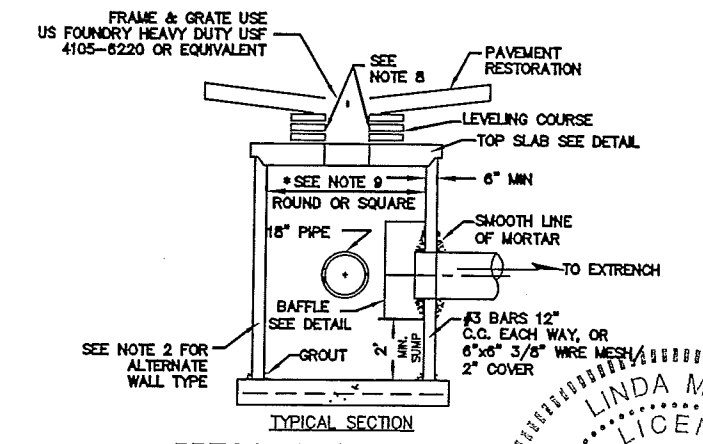
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE REINFORCING STEEL TO BE APPROVED BY ENGINEER
2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

N.T.S.



TOP SLAB DETAILS

N.T.S.

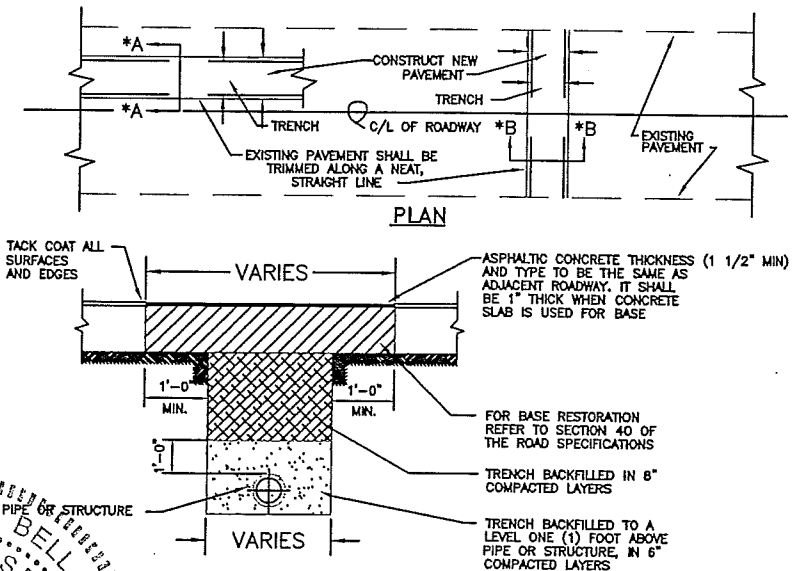


PRECAST CATCH BASIN

N.T.S.

- NOTES:**
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION CLASS C 76 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3'
 5. USE 3,000 PSI CONCRETE (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.6
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.

- NOTES:**
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL BE SOLELY WITH THE CONTRACTOR.
 10. WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. - SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. - LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. - ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.d. - TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. - COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.



PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

N.T.S.

- NOTES:**
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
 2. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 3. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.



SW 155 ST (AREA 3)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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DRAINAGE DETAILS

C-5

VILLAGE OF PALMETTO BAY

SW 80 AVE (AREA 4)

DRAINAGE IMPROVEMENTS

TRIAL



ID: 2016-DTM-MISC-00067

Contact Name: RAMON ALVAREZ

Contact Phone: 3055058477

Folio: 33-5022-008-0150

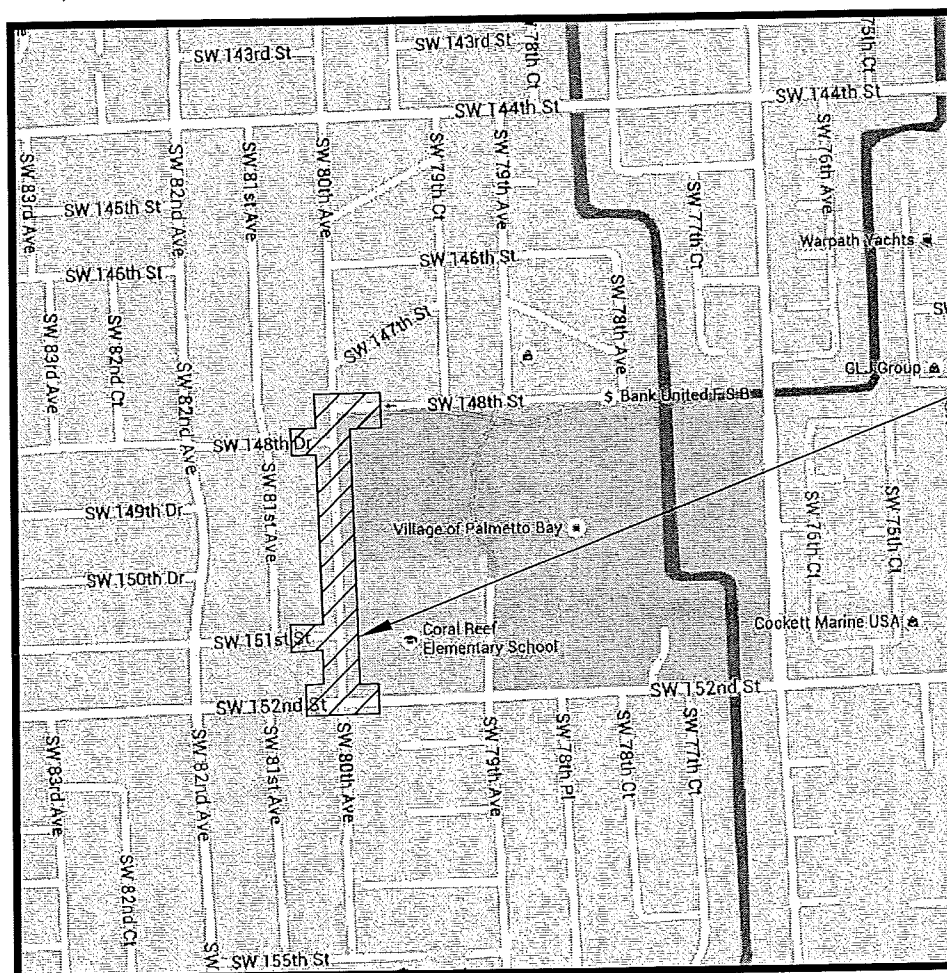
App. Name: PAVING & DRAINAGE REVIEW

Date: 08/02/2016

Reviewer:

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-6	DRAINAGE PLAN
C-7	DRAINAGE DETAILS



PROJECT LOCATION

DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
 RESOURCES MANAGEMENT

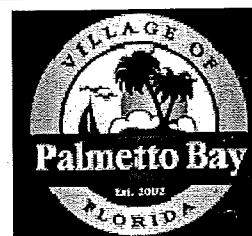
CORE REVIEWER (PRINT):

SIGNATURE

DATE

6/29/16 PERMIT SET

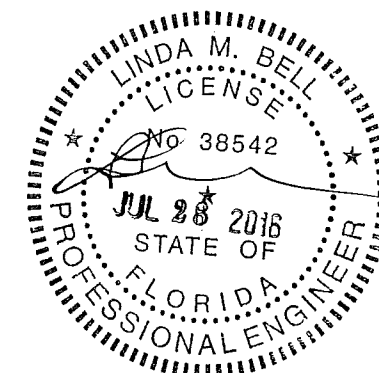
LOCATION SKETCH



PREPARED FOR:
 VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
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 Miami ♦ Coral Springs ♦ Orlando



ENGINEER OF RECORD: LINDA BELL, P.E.
 P.E.: #38542



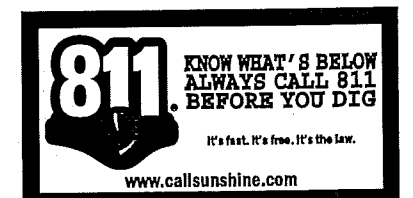
GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.

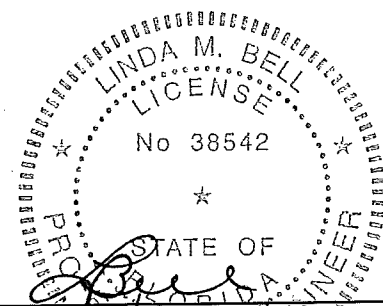
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S2-4, S4-4, S5-4, AND S6-4, 4 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 80 AVE (AREA 4)



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date 06/08/2016
Drawn RLR
Checked VS
Manager Linda Bell, P.E.
Submittal 100%

GENERAL NOTES

C-2

PAVEMENT RESTORATION

- 1 1/2" ASPHALT
- 6" LIMEROCK BASE COMPACTED (LBR-100)
- 12" SUBGRADE COMPACTED (LBR-40)

RECONSTRUCT DRIVEWAY

1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONST. DRAINAGE.
3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 95% OF MAX DENSITY.
4. PLACE 6" OF LIMEROCK BASE COMPACTED (LBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF S-III ASPHALT.

RECONSTRUCT SIDEWALK

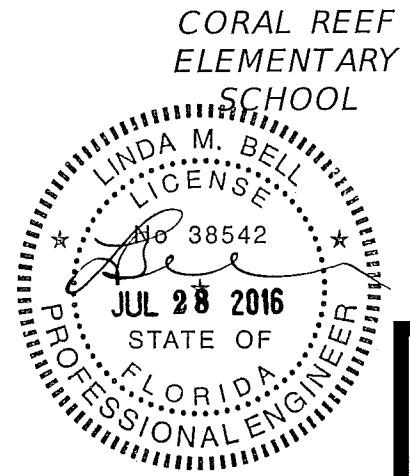
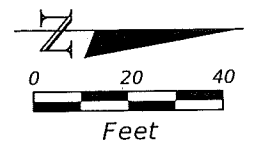
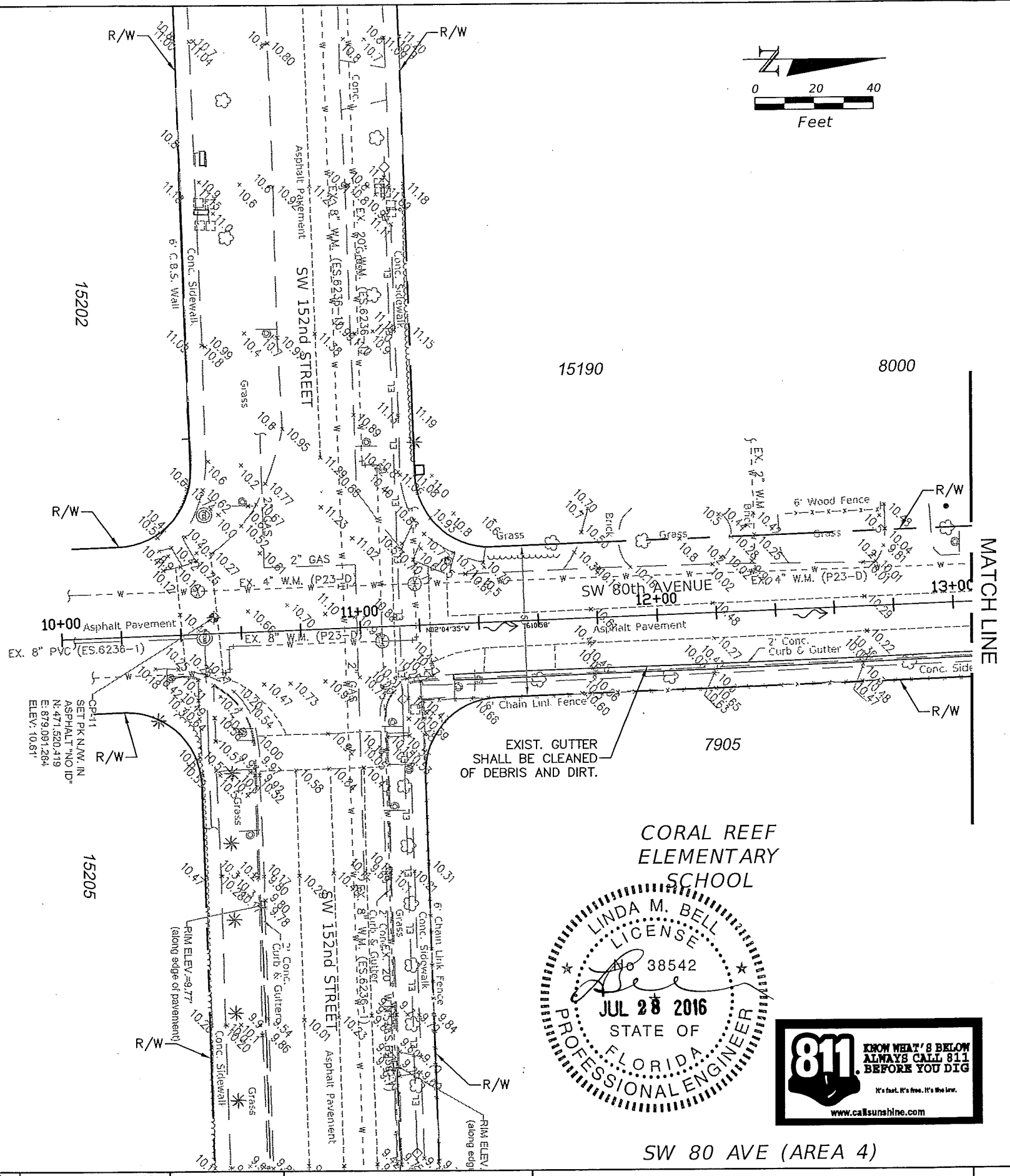
1. SAWCUT NEAREST JOINT.
2. CONST. DRAINAGE.
3. BACKFILL PER MIAMI-DADE COUNTY SPECIFICATIONS.
4. PLACE SIX (6) INCHES OF CLEAN SUITABLE FILL COMPACTED TO A MIN OF 95% MAX DENSITY.
5. CONST. CONC. SIDEWALK PER MIAMI-DADE COUNTY STANDARDS AND SPECS.

LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE (CONCRETE)
- SIGN
- WIRING PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- DRIVEWAY RECONSTRUCTION
- FLOW DIRECTION
- PERCOLATION TEST LOCATION

LINES TYPE:

- OVERHEAD UTILITY LINE
- FENCE



SW 80 AVE (AREA 4)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Drawn	RLR
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Submittal	100%



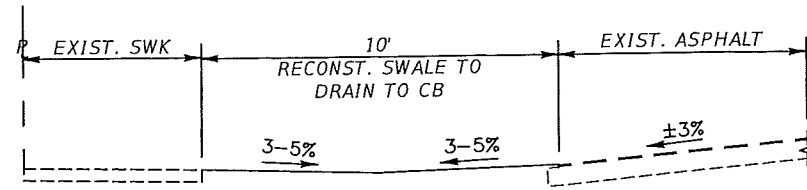
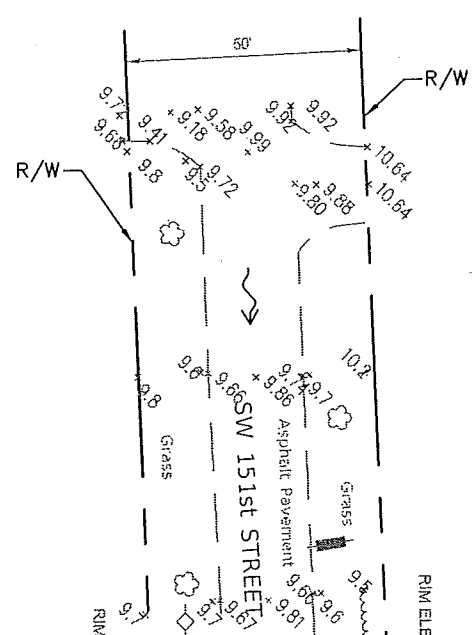
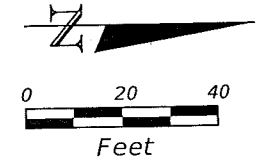
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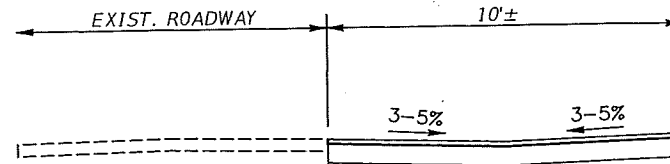
DRAINAGE SHEET

C-3



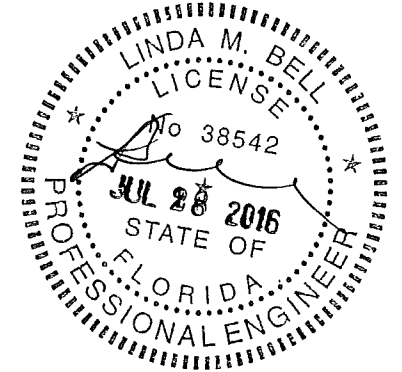
RECONST. SWALE TYPICAL SECTION
N.T.S.

EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.



RECONST. ASPH. SHOULDER
N.T.S.

- 1 1/2" ASPHALT
- 6" LIMEROCK BASE COMPACTED (LBR-100)
- 12" SUBGRADE COMPACTED (LBR-40)



EXIST. ROADWAY SIGNS TO BE REMOVED. CONTRACTOR TO STORE SIGNS DURING CONST. AND TO REPLACE SIGNS PER DADE-COUNTY STANDARDS (TYP.)

EXIST. GUTTER SHALL BE CLEANED OF DEBRIS AND DIRT

STA. 14+55.69 (18.10' LT)
INSTALL NEW INLET
RIM ELEV. 9.43
N. INV. ELEV. 4.93
E. INV. ELEV. 4.93
BOT. ELEV. 1.43

STA. 16+64.85 (17.99' LT)
INSTALL NEW INLET
RIM ELEV. 9.80
INV. ELEV. 5.30
BOT. ELEV. 1.80

CONST. 36 LF OF 18" Ø PIPE

CONST. 25 LF OF EXFIL. TRENCH AND RECONST. SWALE

REMOVE EXIST. ASPHALT AND PAVED SHOULDER. CONST. ASPHALT SHOULDER PER DETAIL.

SAWCUT PAVEMENT (TYP.) MATCH TO EXIST. GRADES

CONST. 20 LF OF EXFIL. TRENCH AND RECONST. SWALE

MATCH LINE

MATCH LINE

CONST. CONC. SIDEWALK AND TYPE F CURB & GUTTER
STA. 13+84.76 (14' RT)
REMOVE EXIST. INLET AND INSTALL NEW INLET
CONST. 50 LF OF 18" PIPE
RIM ELEV. 9.50
INV. ELEV. 5.00
BOT. ELEV. 3.00

STA. 14+38.39 (14' RT)
REMOVE EXIST. INLET AND INSTALL NEW INLET
RIM ELEV. 9.30
N. INV. ELEV. 4.80
W. INV. ELEV. 4.80
S. INV. ELEV. 4.80
BOT. ELEV. 1.30

REMOVE EXIST. INLET. EXISTING TREE TO BE PROTECTED. RECONSTRUCT SHOULDER TO DRAIN TO CB.

STA. 15+00 (14' RT)
INSTALL NEW INLET (CUT TREE ROOTS AS NEEDED)
RIM ELEV. 9.20
INV. ELEV. 4.70
BOT. ELEV. 2.70

CORAL REEF PARK

CORAL REEF ELEMENTARY SCHOOL



SW 80 AVE (AREA 4)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

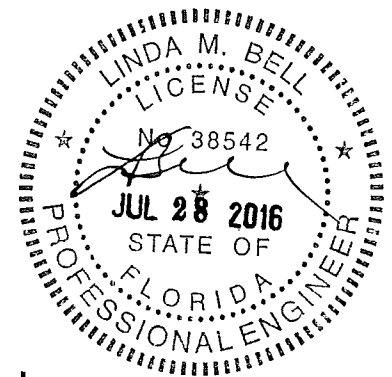
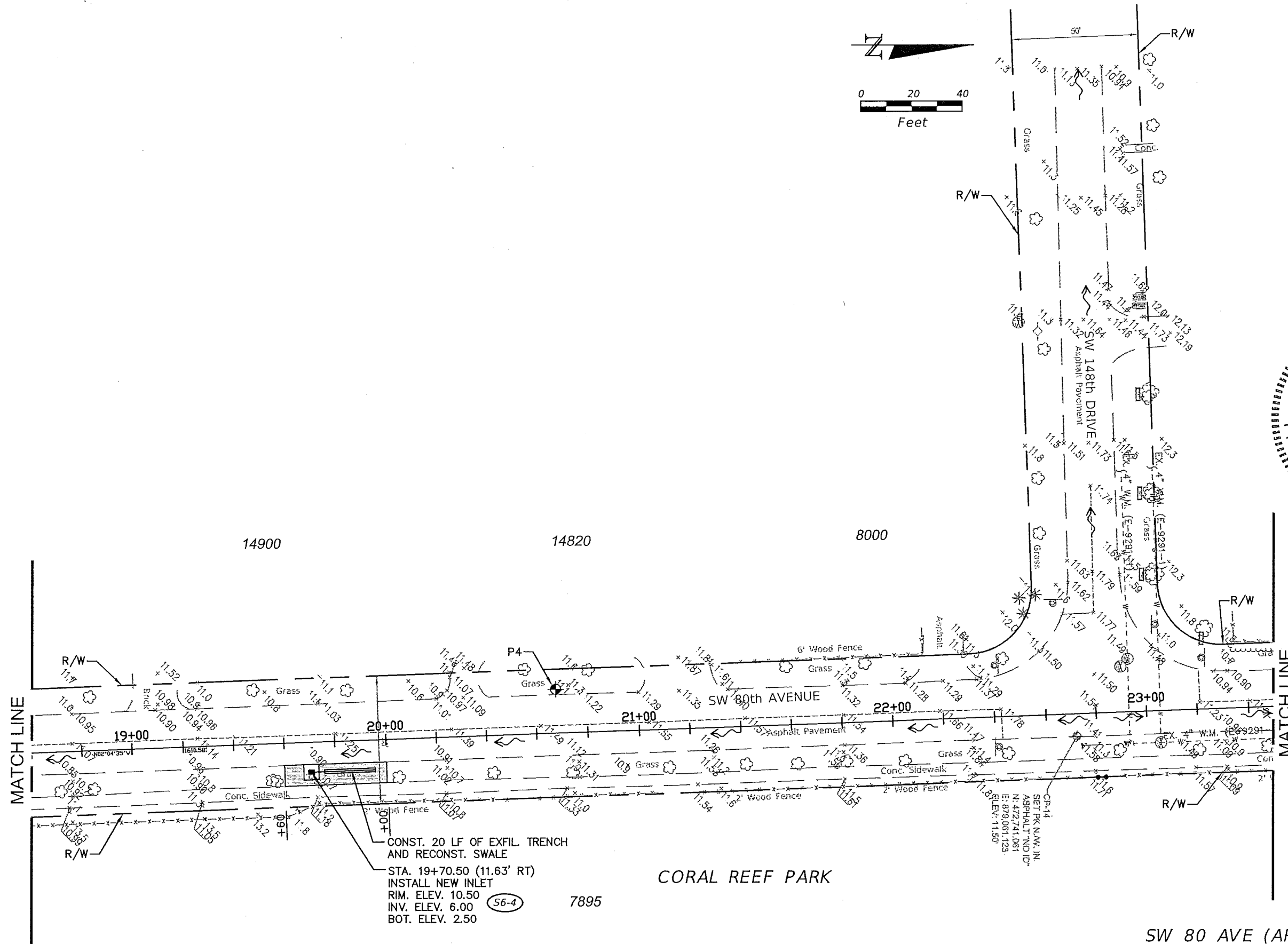
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DRAINAGE SHEET



CONST. 20 LF OF EXFIL. TRENCH AND RECONST. SWALE
 STA. 19+70.50 (11.63' RT)
 INSTALL NEW INLET
 RIM. ELEV. 10.50
 INV. ELEV. 6.00 (S6-4)
 BOT. ELEV. 2.50 7895

SW 80 AVE (AREA 4)

REVISIONS

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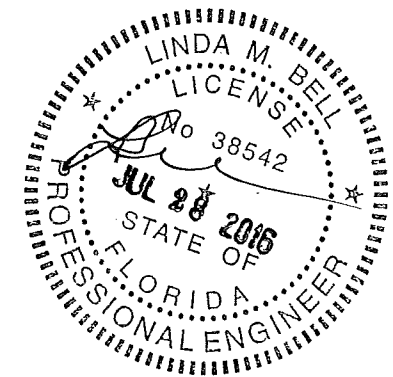
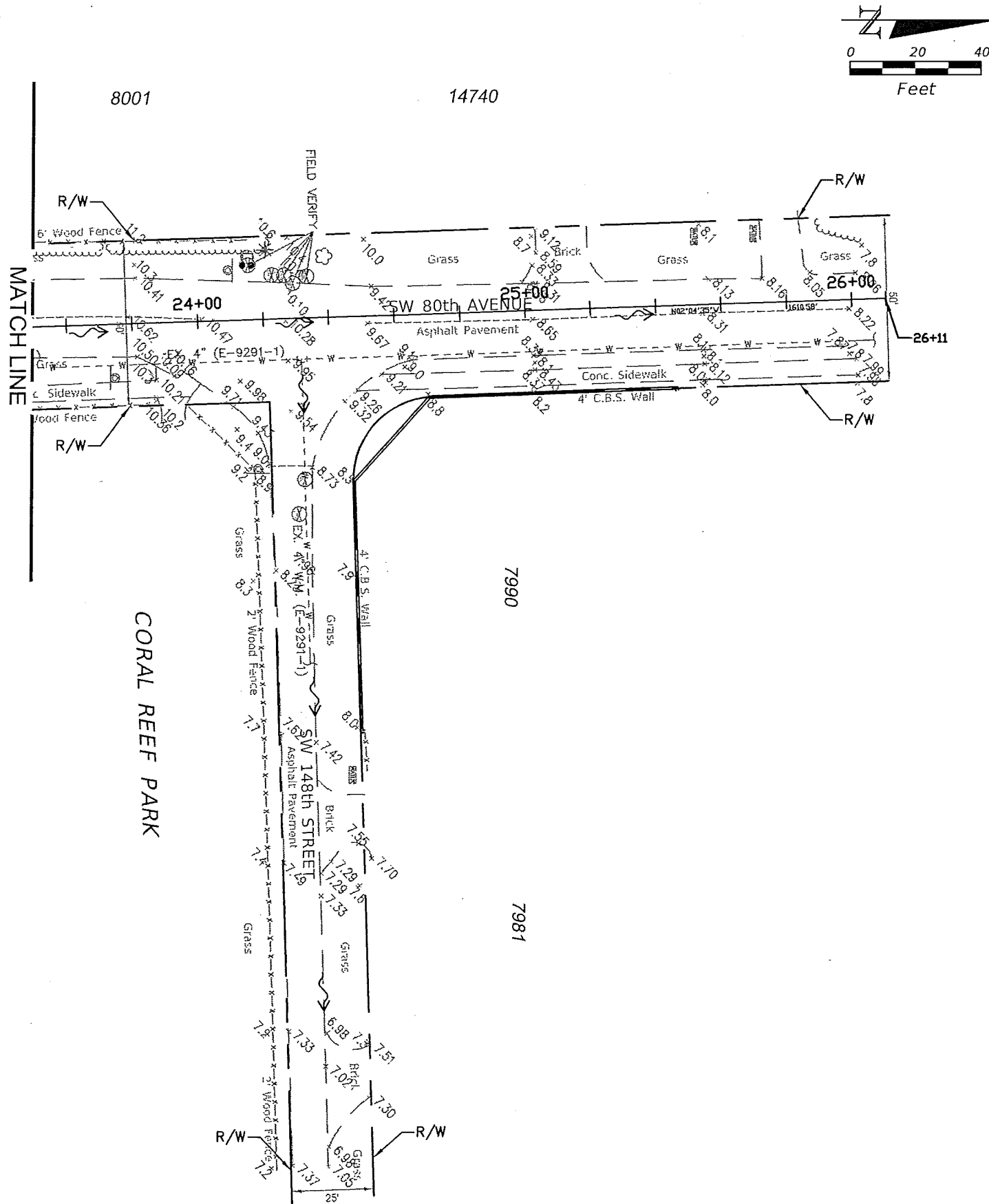


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DRAINAGE SHEET



SW 80 AVE (AREA 4)

REVISIONS					
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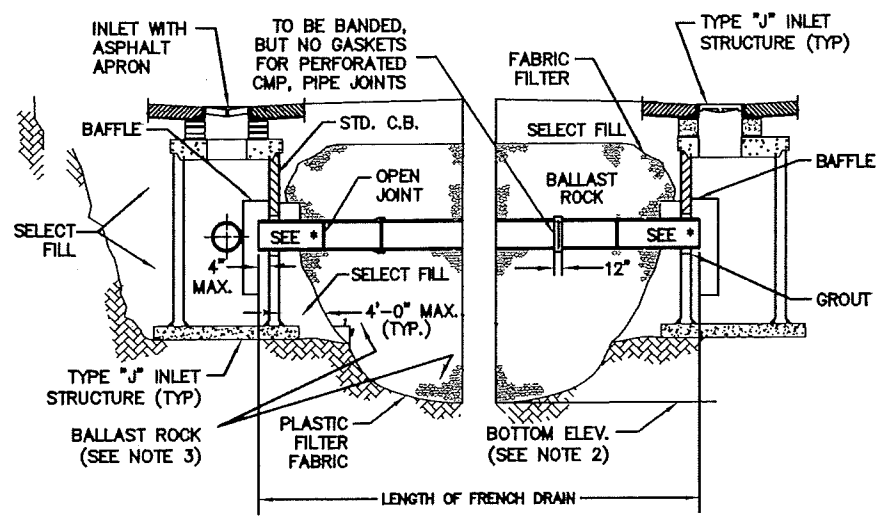
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DRAINAGE SHEET



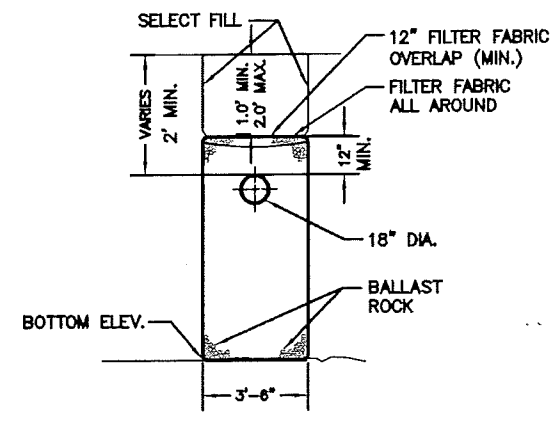
LONGITUDINAL SECTION

- NOTES:**
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

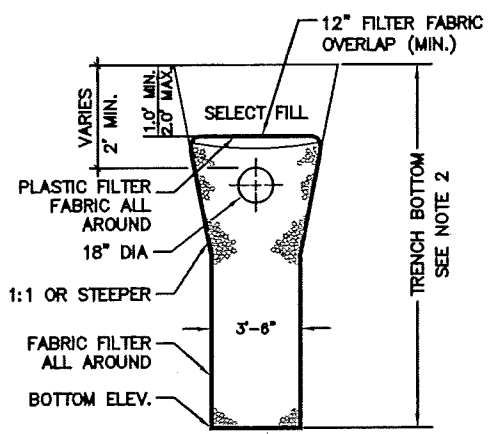
* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

EXFILTRATION DETAIL (MDPW SD 1:1)

N.T.S.

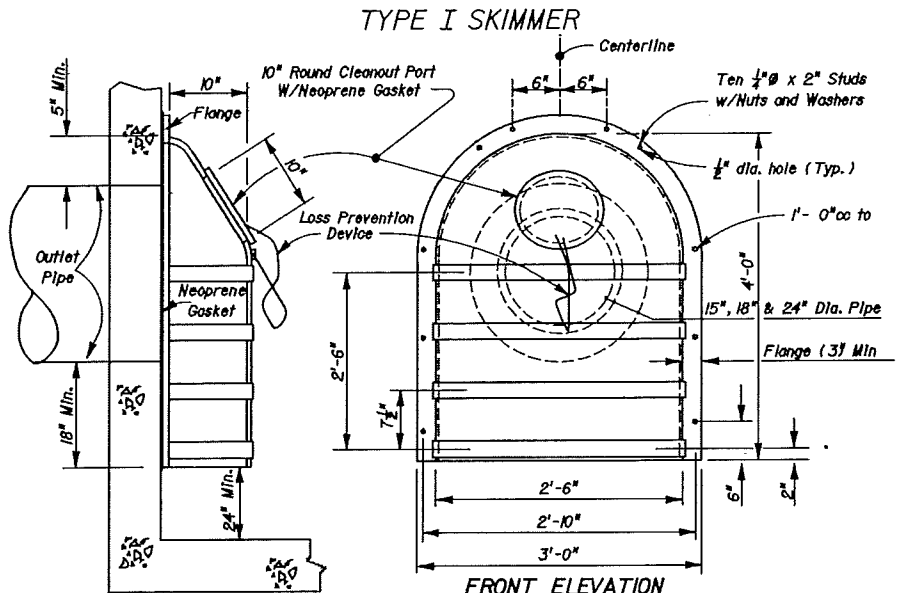


TRANSVERSE SECTION



ALT. TRANS. SECTION

N.T.S.



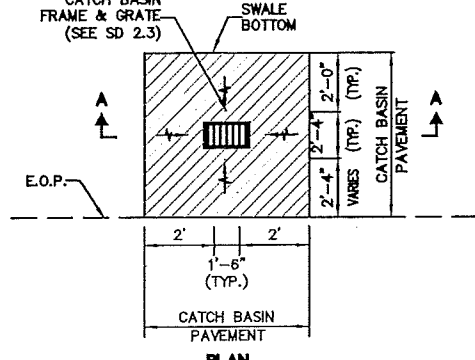
TYPE I SKIMMER

Notes: The cleanout part for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches

TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241

N.T.S.



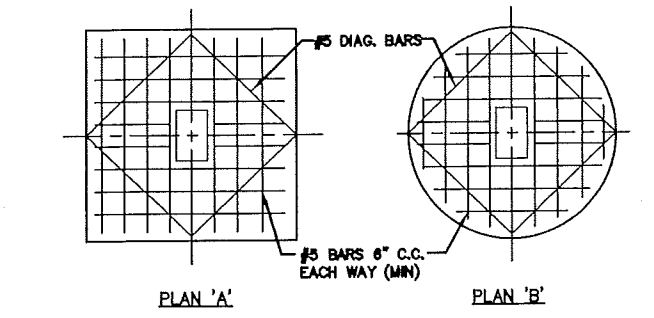
CATCH BASIN ASPHALT APRON DETAIL

N.T.S.

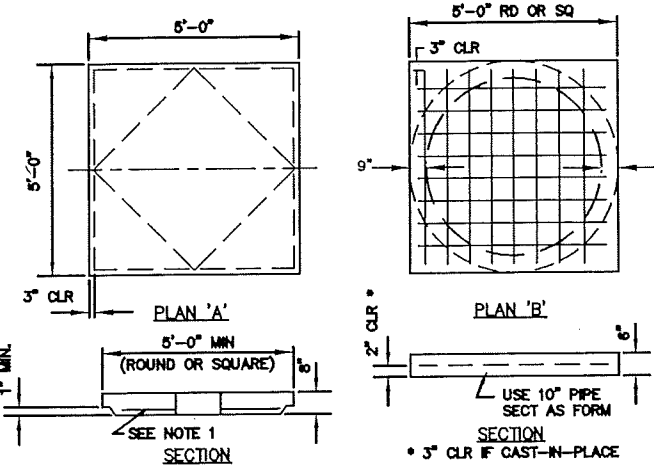
- NOTES:**
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER.
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

CATCH BASIN ASPHALT APRON DETAIL

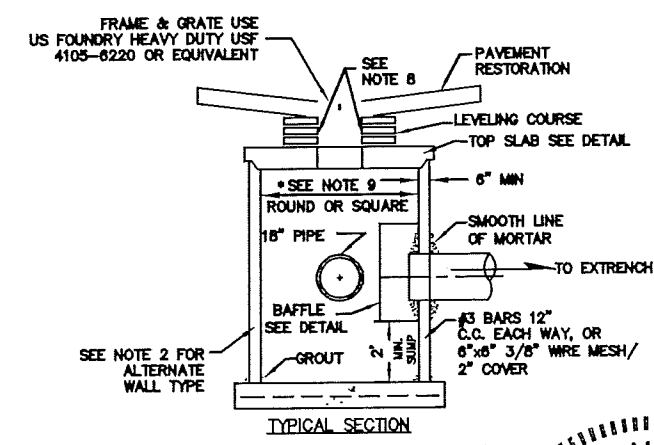
N.T.S.



TOP SLAB DETAILS



BOTTOM SLAB DETAILS

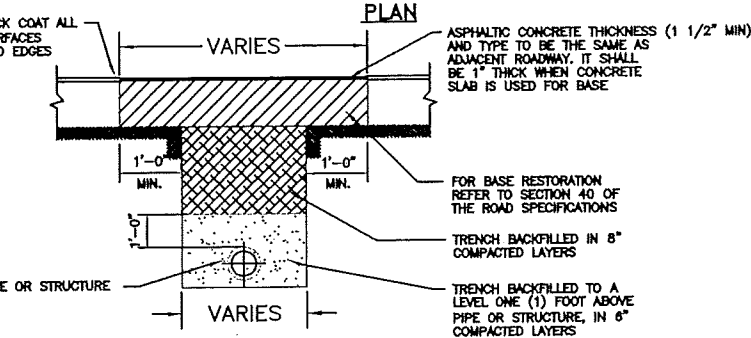
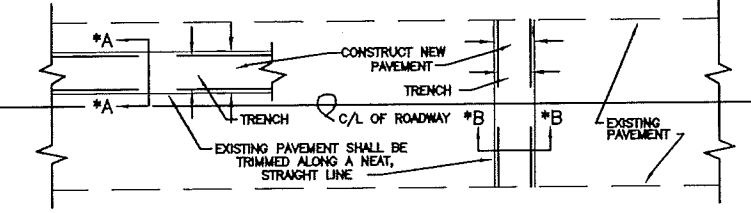


PRECAST CATCH BASIN

N.T.S.

- NOTES:**
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION CLASS C 78 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3'.
 5. USE 3,000 PSI CONCRETE (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.0.
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.

- NOTES:**
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL BE SOLELY WITH THE CONTRACTOR.
 10. WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. - SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. - LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. - ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS.
 - 12.d. - TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. - COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

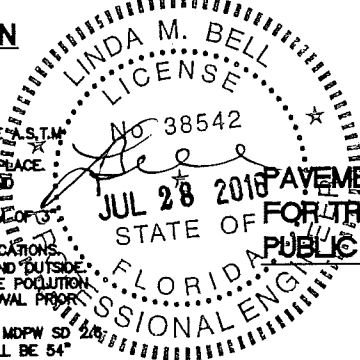


SECTION A-A & B-B

- NOTES:**
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL WIDTH REINFORCING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
 2. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 3. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

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SW 80 AVE (AREA 4)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submitted	100%

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DRAINAGE DETAILS

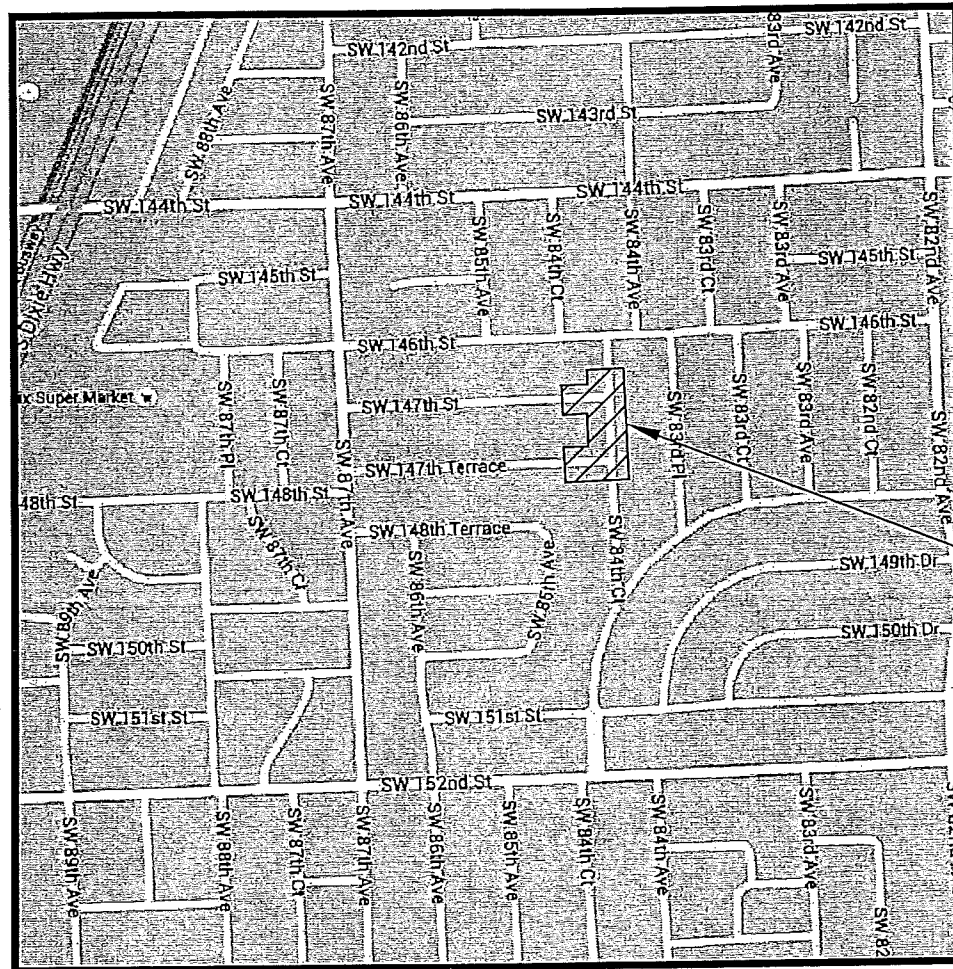
VILLAGE OF PALMETTO BAY

SW 84 CT (AREA 5)

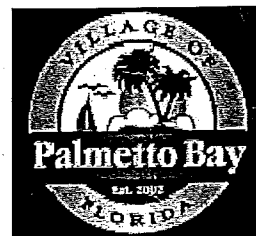
DRAINAGE IMPROVEMENTS

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-4	DRAINAGE PLAN
C-5	DRAINAGE DETAILS



LOCATION SKETCH



PREPARED FOR:
 VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
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Village of Palmetto Bay
 Department of Public Services
 Plan Reviewed By: *[Signature]*
 Signature _____ Date _____

DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
 RESOURCES MANAGEMENT

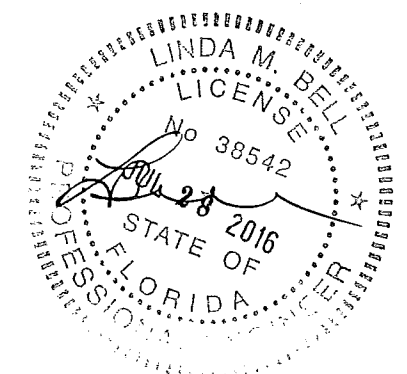
CORE REVIEWER (PRINT): *[Signature]*
 SIGNATURE _____ DATE *8.10.16*

PROJECT
 LOCATION

6/8/16 90% PROGRESS SET

ENGINEER OF RECORD: LINDA BELL, P.E.
 P.E.: #38542

PREPARED BY:
CWI Civil Works, Inc.
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 Miami ♦ Coral Springs ♦ Orlando



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GENERAL NOTES

- ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
- ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
- IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
- WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
- ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
- EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
- CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
- STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
- ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
- ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
- EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
- CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
- CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
- CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
- ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
- CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
- SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
- EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

- WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
- COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
- PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-5, AND S2-5, AND S3-5, 3 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



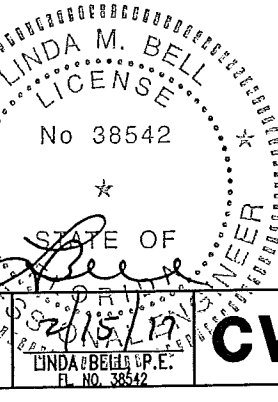
SW 84 CT (AREA 5)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%



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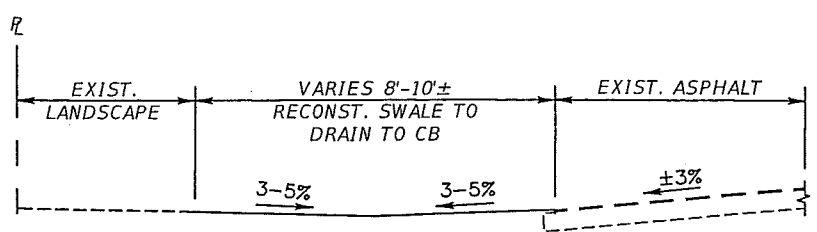


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GENERAL NOTES

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RECONST. SWALE TYPICAL SECTION
N.T.S.

EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

PAVEMENT RESTORATION

- 1 1/2" ASPHALT
- 6" LIMEROCK BASE (LBR-100)
- 12" COMPACTED SUBGRADE (LBR-40)

RECONSTRUCT DRIVEWAY

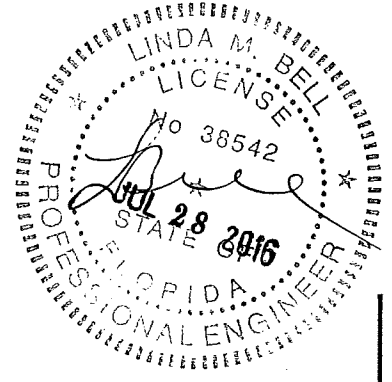
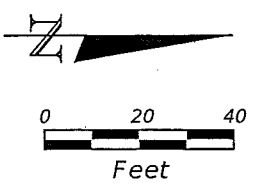
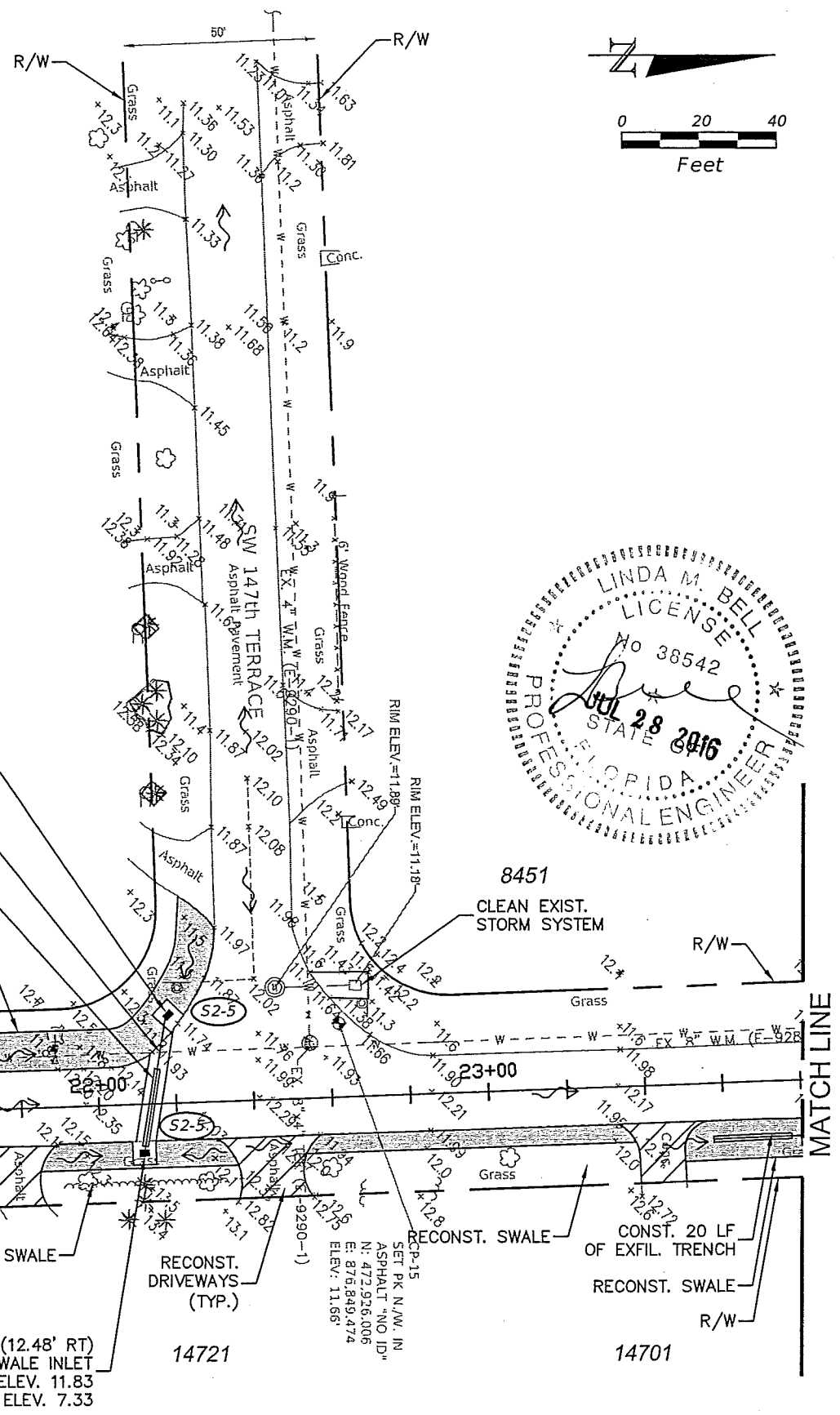
1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
2. CONST. DRAINAGE.
3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 95% OF MAX DENSITY.
4. PLACE 6" OF LIMEROCK (LBR-100).
5. PLACE TACK COAT.
6. PLACE 1" OF S-III ASPHALT.

LEGEND:

- ⊕ SEWER MANHOLE
- ⊕ STORM MANHOLE
- ⊕ UNKNOWN MANHOLE
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ CONTROL POINT
- CATCH BASIN
- ⊕ FIRE HYDRANT
- ⊕ POWER POLE(CONCRETE)
- ⊕ SIGN WIRING PULL BOX
- SERVICE CABINET
- ⊕ GUARD POST
- ⊕ TREE
- ⊕ TREE PALM
- ⊕ ORNAMENTAL PLANT
- GUY ANCHOR
- ⊕ LIGHT POLE
- ⊕ MAIL BOX
- ⊕ SPOT ELEVATION
- ⊕ MULTICOLUMN SIGN
- ⊕ ELECTRIC OULET
- ⊕ FLOOD LIGHT
- ⊕ SWALE
- ⊕ PERC. TEST

LINES TYPE:

- EL — OVERHEAD UTILITY LINE
- X—X—X— FENCE



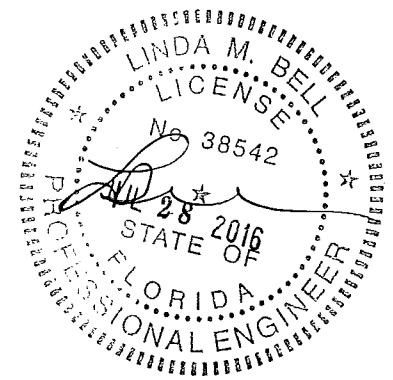
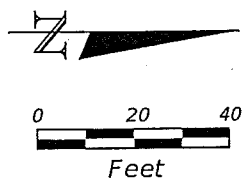
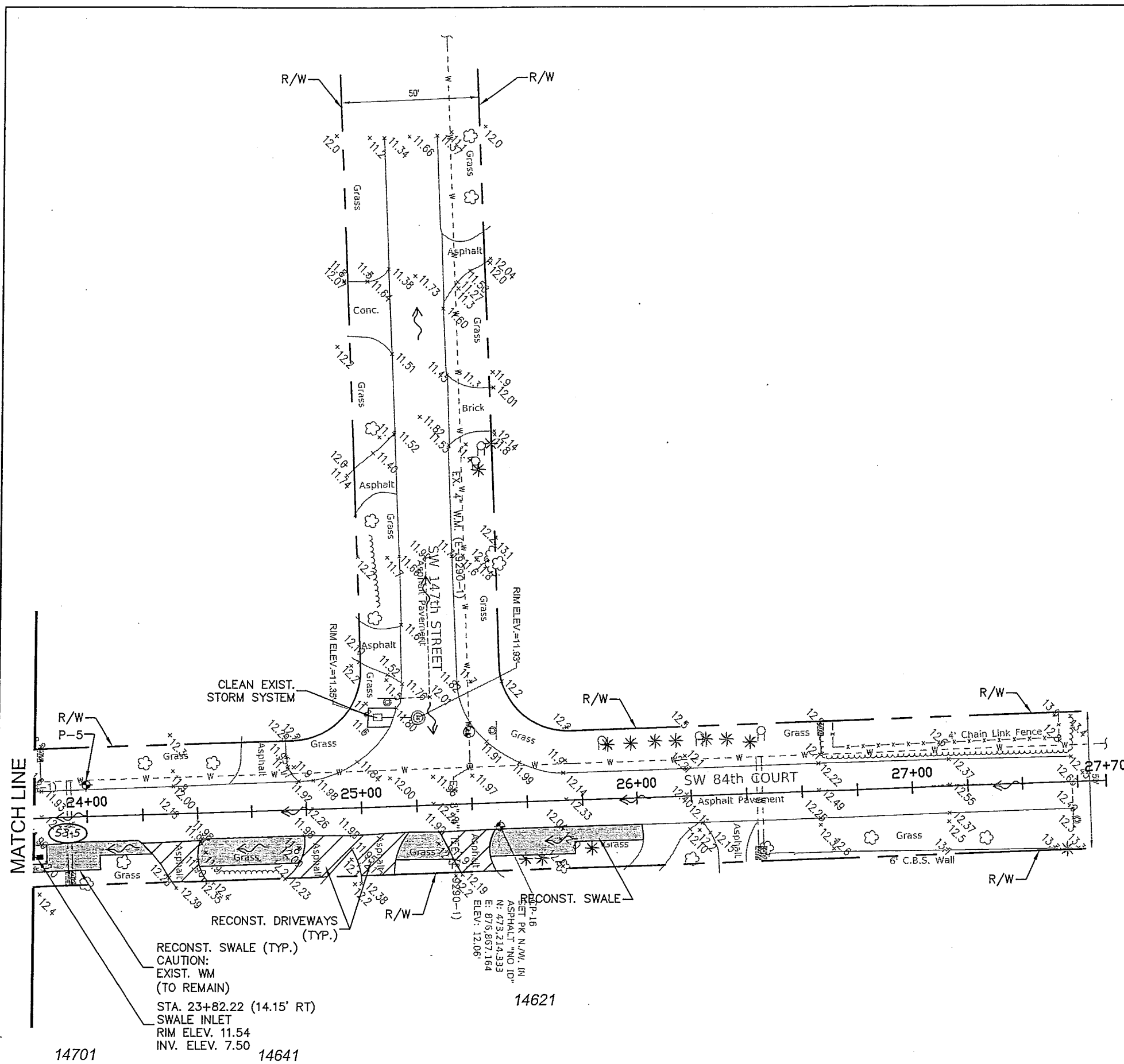
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DATE	BY	DESCRIPTION	

Date	06/08/2016
Drawn	RLR
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Manager	Linda Bell, P.E.
Submittal	100%

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LINDA BELL, P.E.
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SW 84 CT (AREA 5)

RECONST. SWALE (TYP.)
 CAUTION:
 EXIST. WM
 (TO REMAIN)
 STA. 23+82.22 (14.15' RT)
 SWALE INLET
 RIM ELEV. 11.54
 INV. ELEV. 7.50

14621

14701

14641

REVISIONS

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Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%



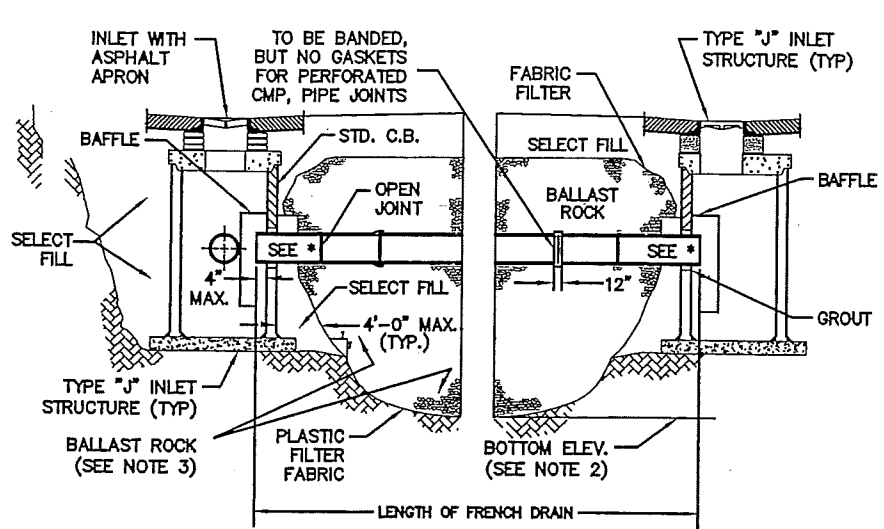
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DRAINAGE SHEET

C-4



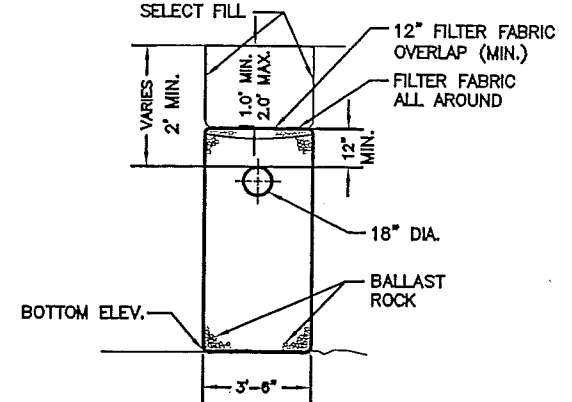
LONGITUDINAL SECTION

- NOTES:**
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

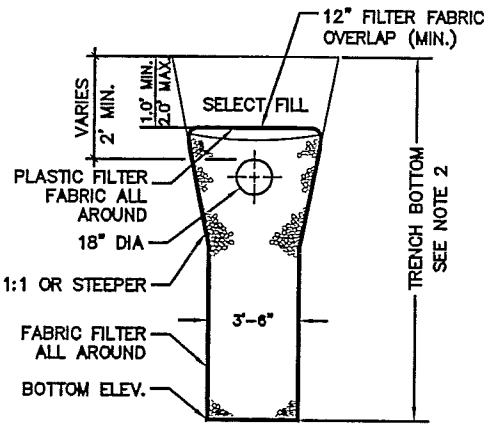
* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

EXFILTRATION DETAIL (MDPW SD 1.1)

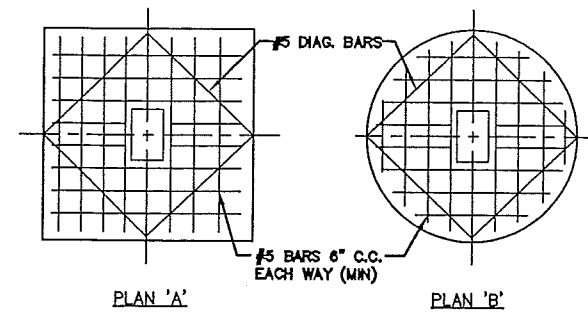
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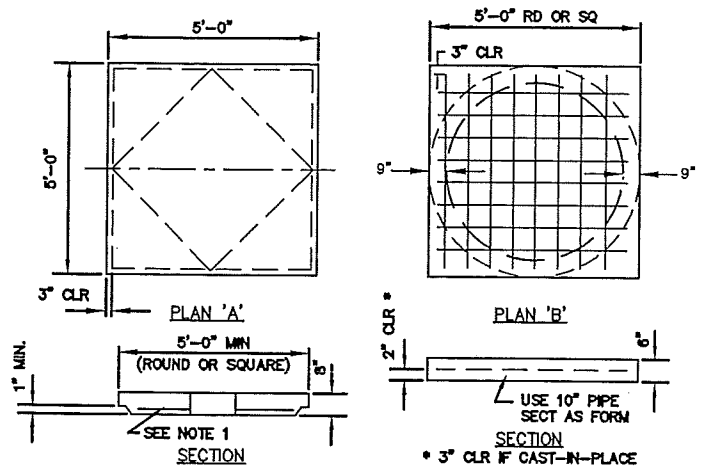
TRANSVERSE SECTION N.T.S.



ALT. TRANS. SECTION N.T.S.

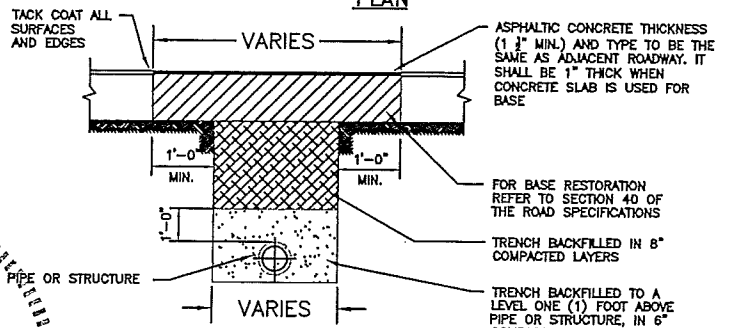
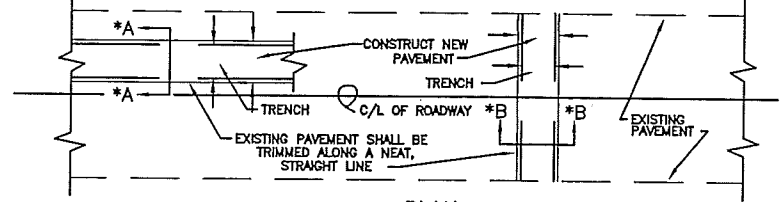


TOP SLAB DETAILS



BOTTOM SLAB DETAILS

- NOTES:**
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL LIE SOLELY WITH THE CONTRACTOR.
 10. - WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. - SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. - LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. - ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.d. - TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. - COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

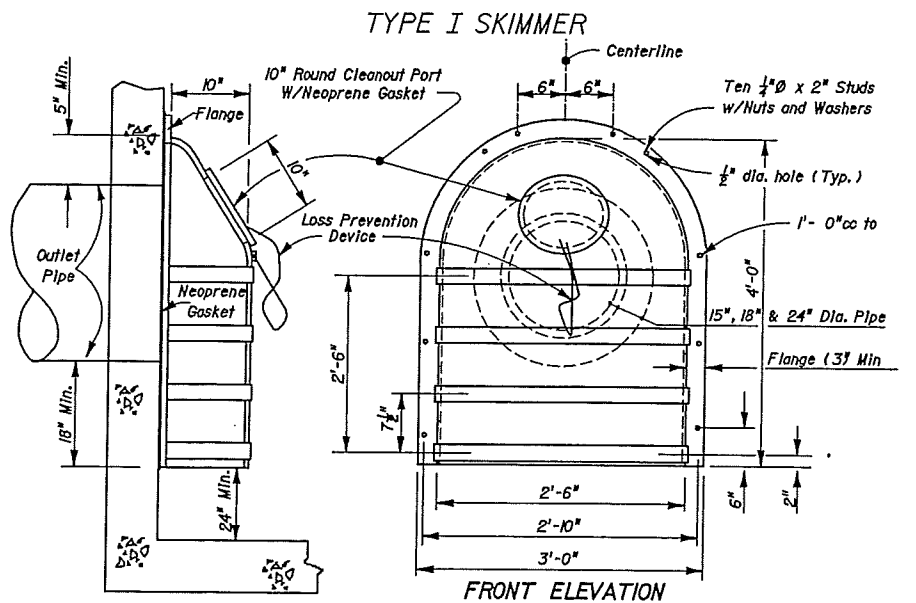


SECTION A-A & B-B

- NOTES:**
1. - PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
 2. - IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 3. - CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

N.T.S.



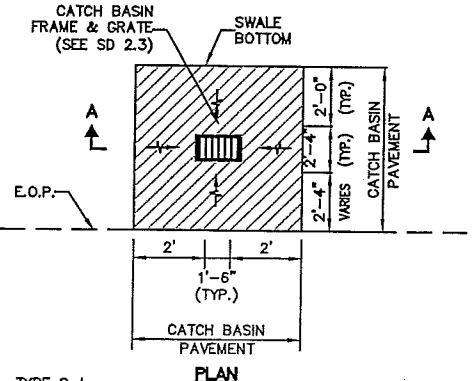
TYPE I SKIMMER

Note: The cleanout port for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches

TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241

N.T.S.



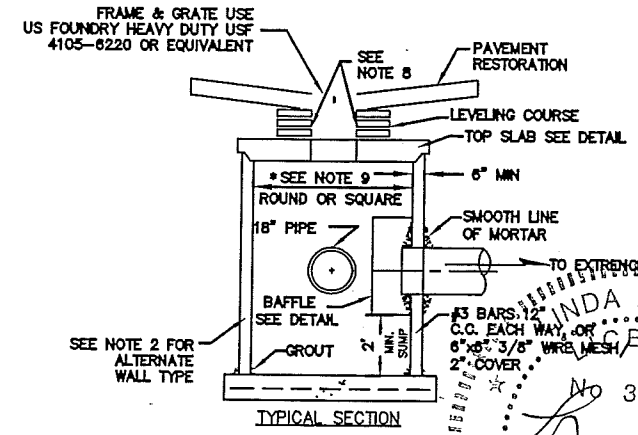
CATCH BASIN ASPHALT APRON DETAIL

N.T.S.

- NOTES:**
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE, REINFORCING STEEL TO BE APPROVED BY ENGINEER
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

CATCH BASIN ASPHALT APRON DETAIL

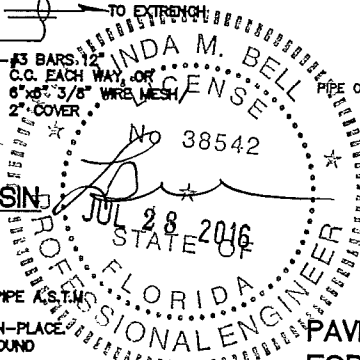
N.T.S.



PRECAST CATCH BASIN

N.T.S.

- NOTES:**
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION CLASS C 78 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
 5. USE 3,000 PSI CONCRETE (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.6
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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SW 84 CT (AREA 5)

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DRAINAGE DETAILS

C-5

VILLAGE OF PALMETTO BAY SW 88 CT (AREA 6) DRAINAGE IMPROVEMENTS

TRIAL



ID: 2016-DTM-MISC-00069

Contact Name: RAMON ALVAREZ

Contact Phone: 3055058477

Folio: 33-5028-005-2010

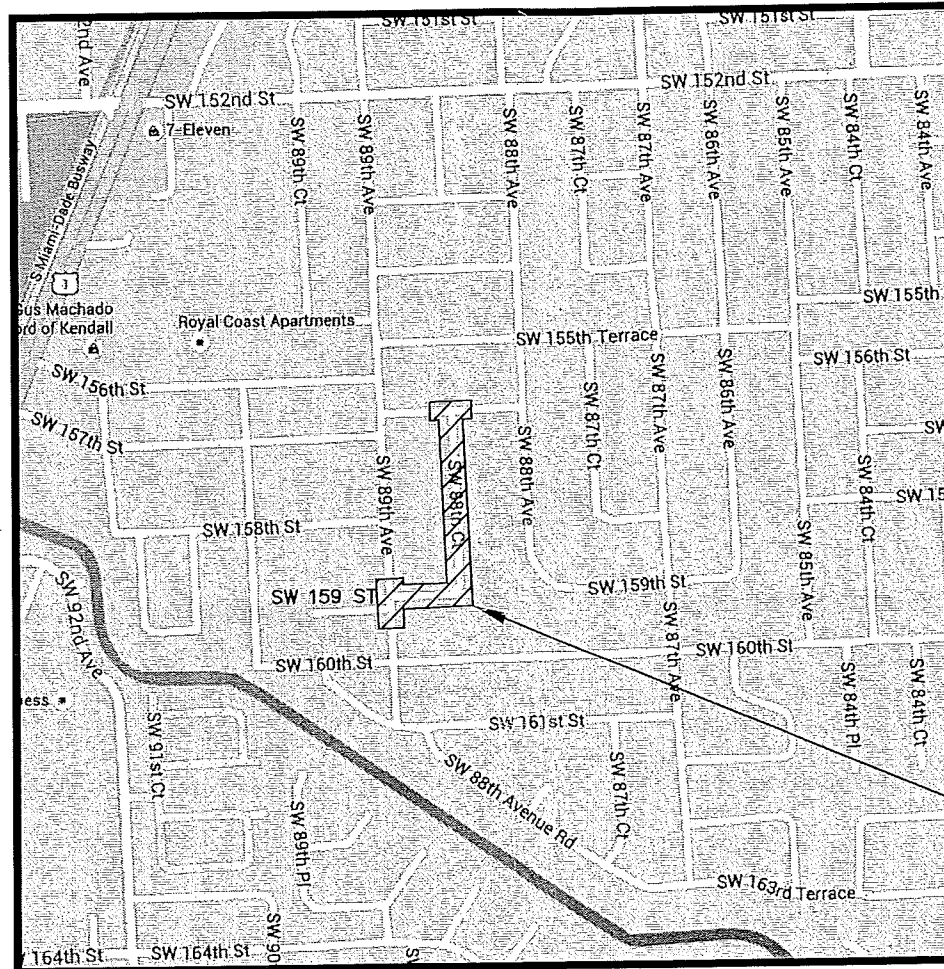
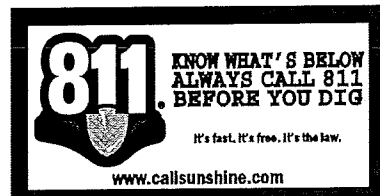
App. Name: PAVING & DRAINAGE REVIEW

Date: 08/02/2016

Reviewer:

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3-6	DRAINAGE PLAN
C-7	DRAINAGE DETAILS



DERM PLAN REVIEW FINAL APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

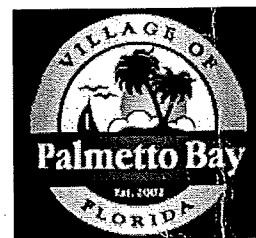
CORE REVIEWER (PRINT) *Julio Diaz*

SIGNATURE *[Signature]*

DATE 8/10/16

PROJECT
LOCATION

LOCATION SKETCH



PREPARED FOR:

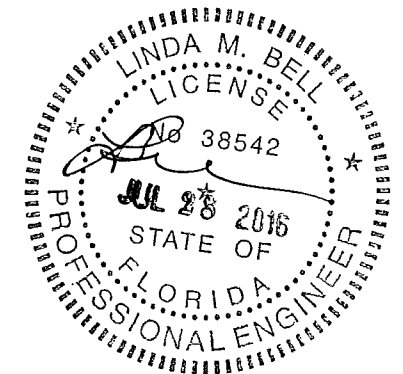
VILLAGE OF PALMETTO BAY-PUBLIC WORKS DEPT.
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CA 07528
Miami ♦ Coral Springs ♦ Orlando

6/29/16 PERMIT SET



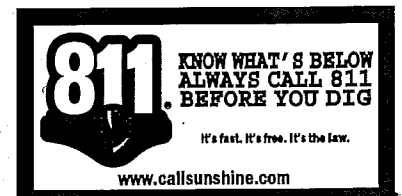
ENGINEER OF RECORD: LINDA BELL, P.E.
P.E.: #38542

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-6, S3-6, S5-6, S7-6, S8-6, S9-6, S10-6, AND S13-6, 8 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



SW 88 CT (AREA 6)

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			06/08/2016	RLR	Drawn
				VS	Checked
				Linda Bell, P.E.	Manager
				100%	Submittal

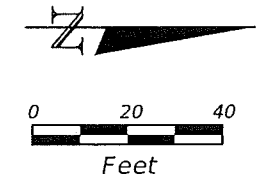
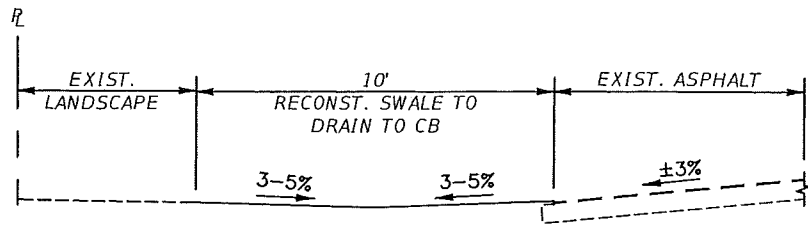
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GENERAL NOTES

C-2

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RECONST. SWALE TYPICAL SECTION
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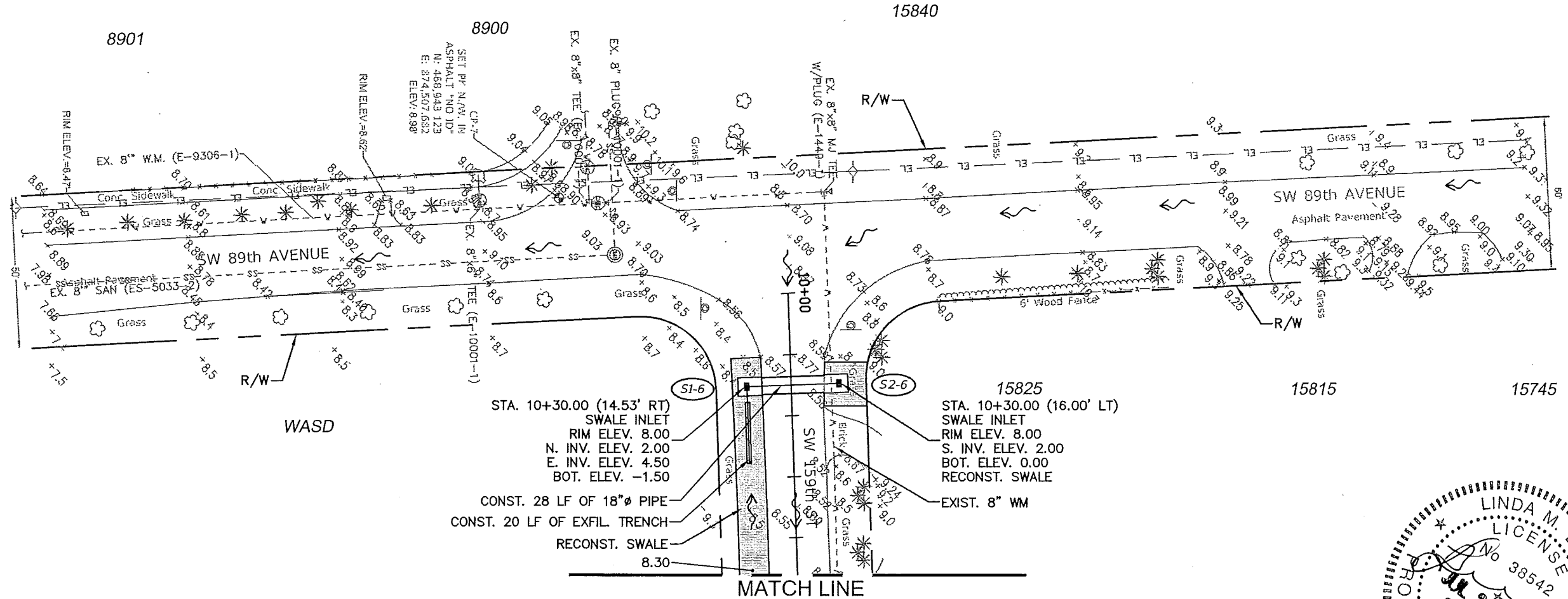
EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

LEGEND:

- SEWER MANHOLE
- STORM MANHOLE
- UNKNOWN MANHOLE
- WATER VALVE
- WATER METER
- CONTROL POINT
- CATCH BASIN
- FIRE HYDRANT
- POWER POLE (CONCRETE)
- SIGN
- WRUNG PULL BOX
- SERVICE CABINET
- GUARD POST
- TREE
- TREE PALM
- ORNAMENTAL PLANT
- GUY ANCHOR
- LIGHT POLE
- MAIL BOX
- SPOT ELEVATION
- MULTICOLUMN SIGN
- ELECTRIC OUTLET
- FLOOD LIGHT
- SWALE
- DRIVEWAY RECONSTRUCTION
- FLOW DIRECTION
- PERCOLATION TEST LOCATION

LINES TYPE:

- OVERHEAD UTILITY LINE
- FENCE
- RIGHT OF WAY LINE
- PAVEMENT MARKS
- VEGETATION LINE

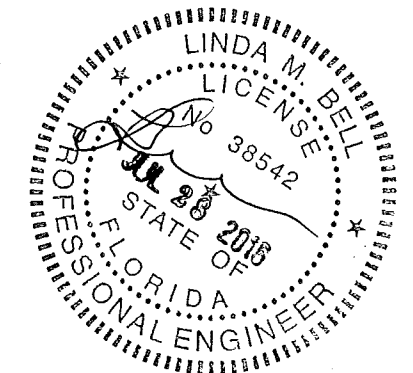


PAVEMENT RESTORATION

- 1 1/2" ASPHALT
- 6" LIMEROCK BASE COMPACTED (LBR-100)
- 12" SUBGRADE COMPACTED (LBR-40)

RECONSTRUCT DRIVEWAY

- 1. SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
- 2. CONST. DRAINAGE.
- 3. BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 95% OF MAX DENSITY.
- 4. PLACE 6" OF LIMEROCK BASE COMPACTED (LBR-100).
- 5. PLACE TACK COAT.
- 6. PLACE 1" OF S-III ASPHALT.



SW 88 CT (AREA 6)

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Checked	VS
Manager	Linda Bell, P.E.
Submitted	100%

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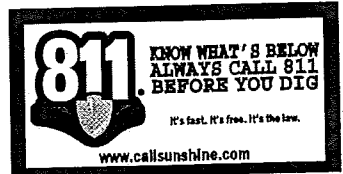
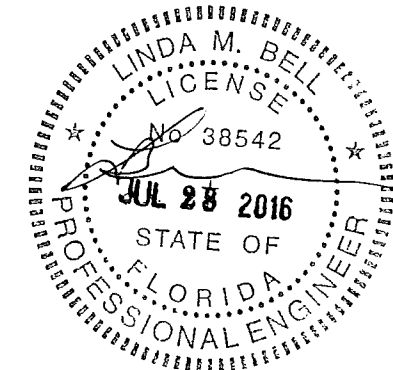
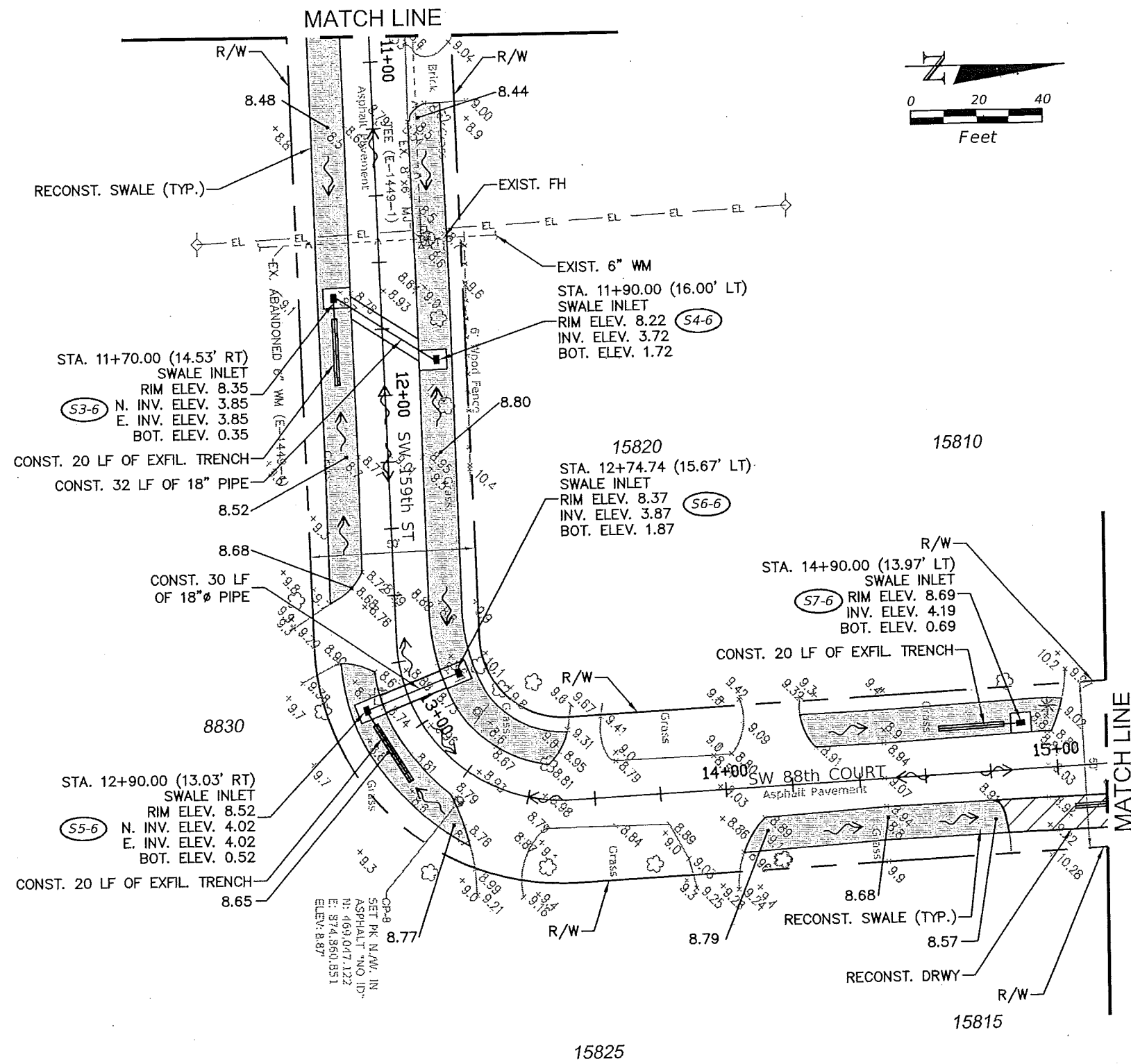
LINDA BELL, P.E.
FL. NO. 38542

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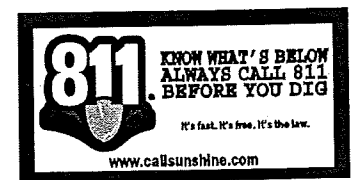
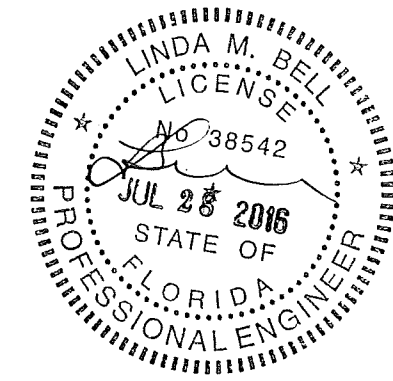
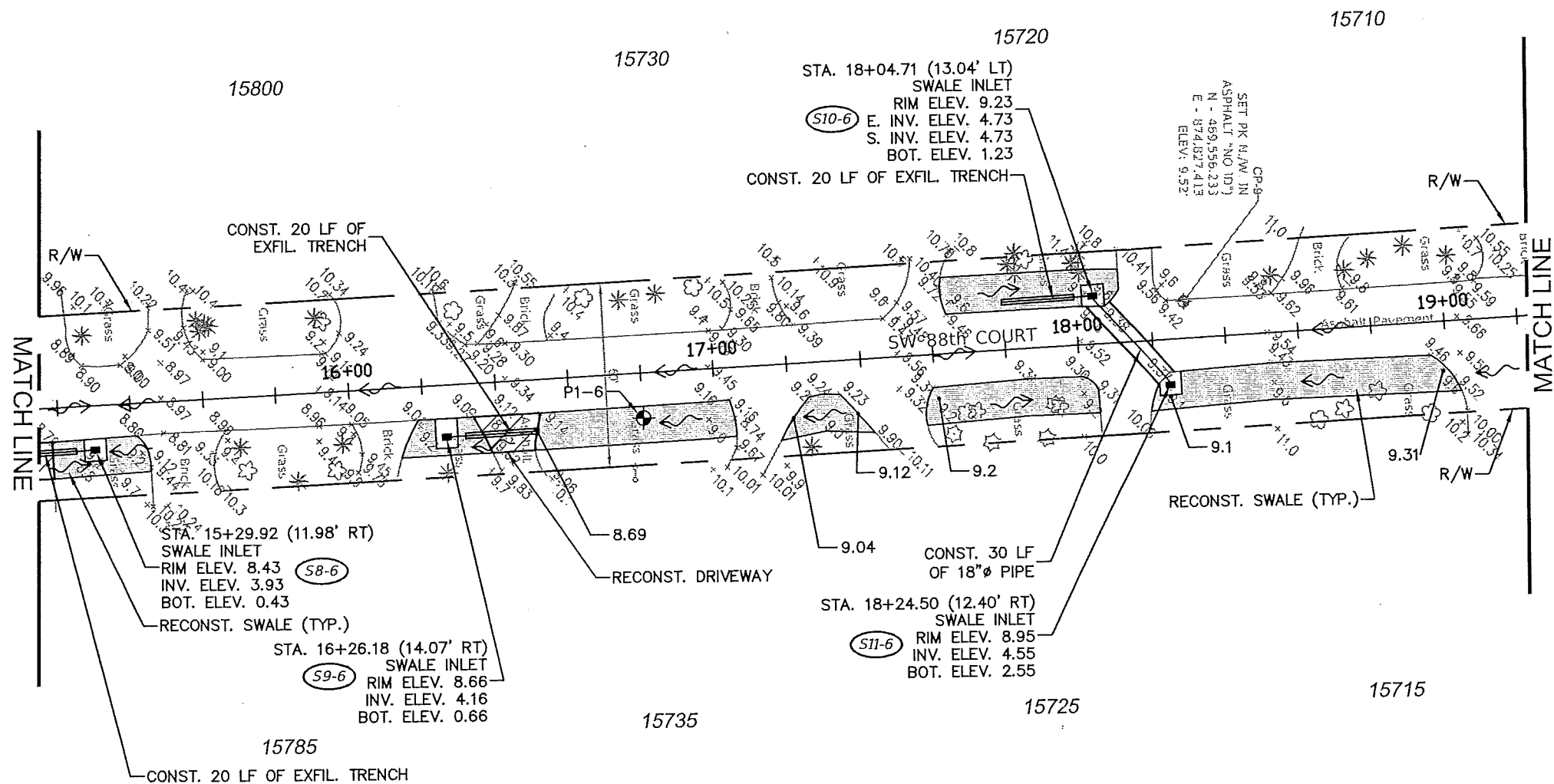
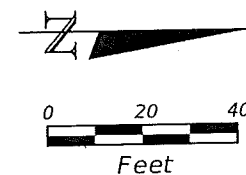
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Submittal	100%

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DRAINAGE SHEET



SW 88 CT (AREA 6)

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Manager	Linda Bell, P.E.
Submitted	100%

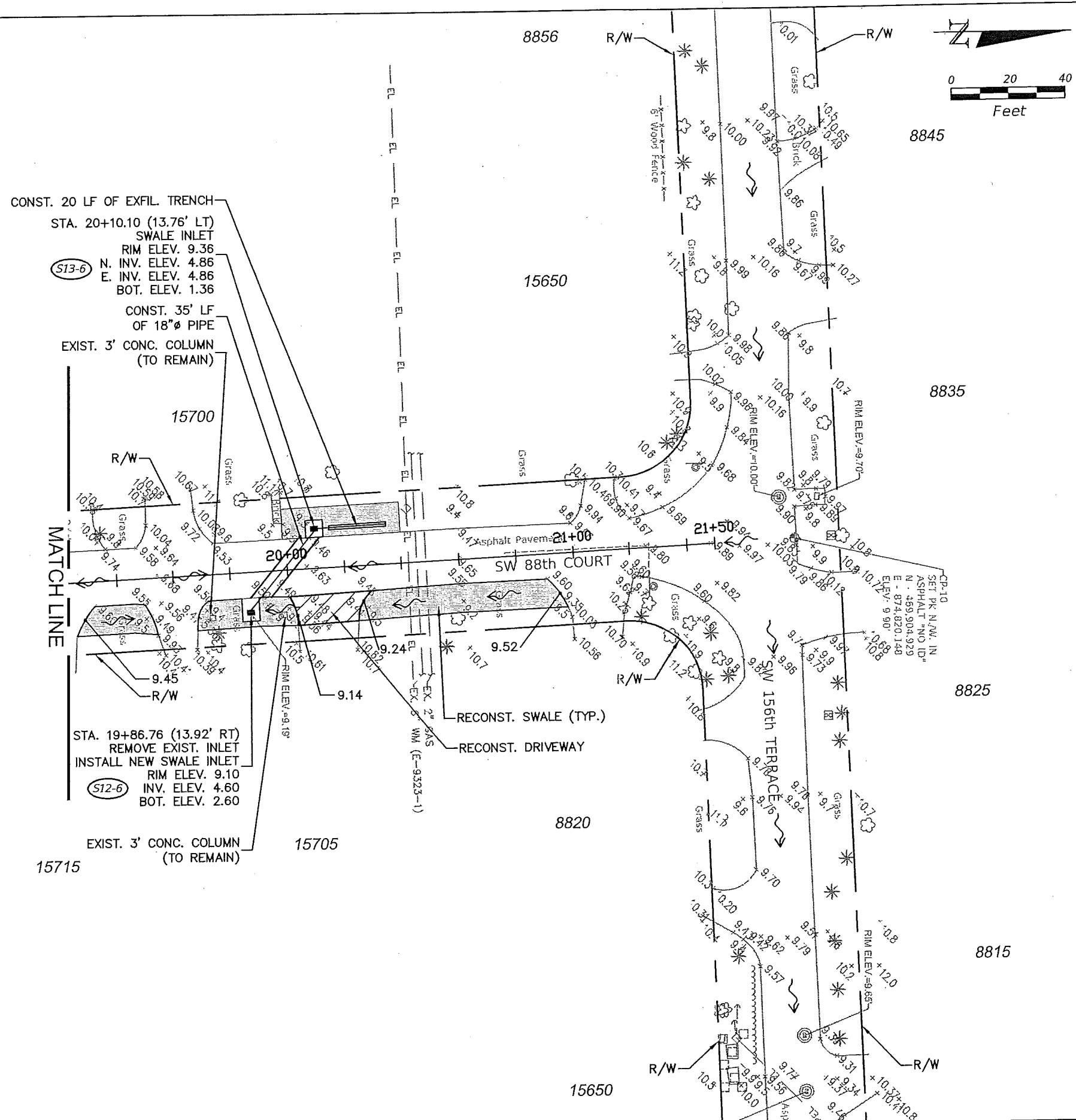


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DRAINAGE SHEET



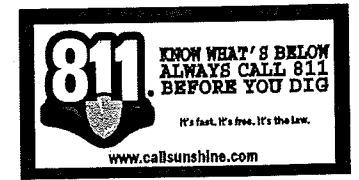
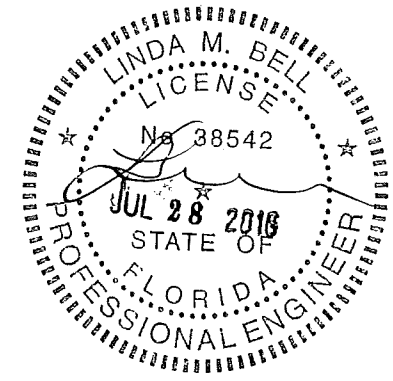
CONST. 20 LF OF EXFIL. TRENCH
 STA. 20+10.10 (13.76' LT)
 SWALE INLET
 RIM ELEV. 9.36
 N. INV. ELEV. 4.86
 E. INV. ELEV. 4.86
 BOT. ELEV. 1.36
 (S13-6)

CONST. 35' LF
 OF 18" Ø PIPE
 EXIST. 3' CONC. COLUMN
 (TO REMAIN)

STA. 19+86.76 (13.92' RT)
 REMOVE EXIST. INLET
 INSTALL NEW SWALE INLET
 RIM ELEV. 9.10
 INV. ELEV. 4.60
 BOT. ELEV. 2.60
 (S12-6)

EXIST. 3' CONC. COLUMN
 (TO REMAIN)

RECONST. SWALE (TYP.)
 RECONST. DRIVEWAY



SW 88 CT (AREA 6)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%



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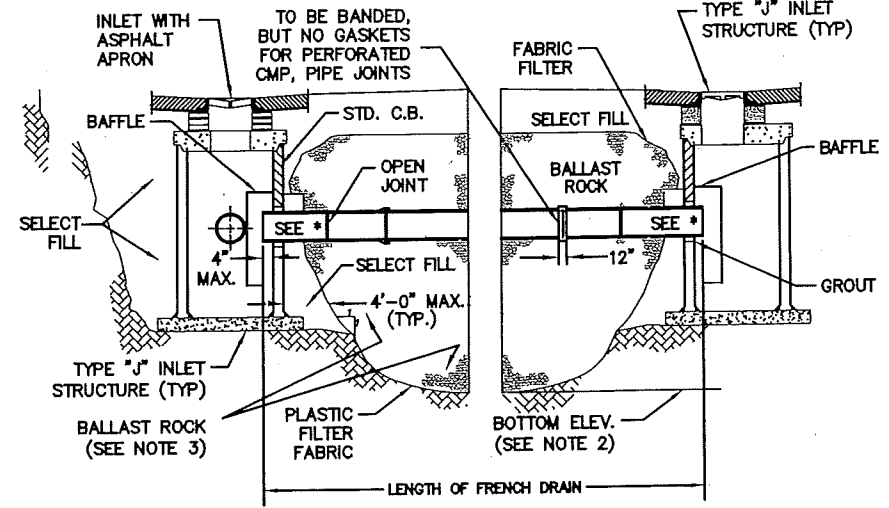
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DRAINAGE SHEET

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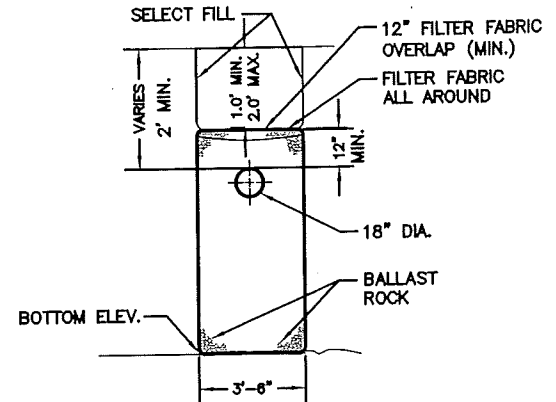


LONGITUDINAL SECTION

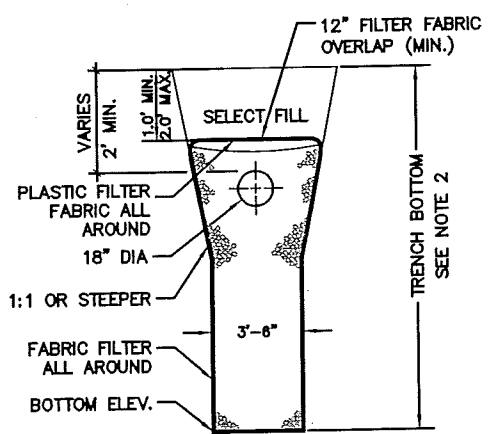
- NOTES:**
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

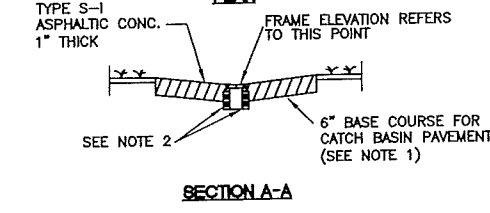
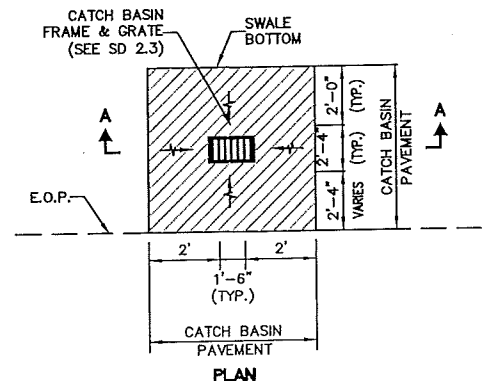
EXFILTRATION DETAIL (MDPW SD 1.1)
N.T.S.



TRANSVERSE SECTION
N.T.S.

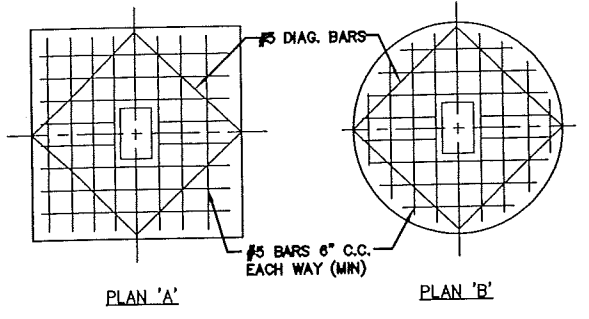


ALT. TRANS. SECTION
N.T.S.

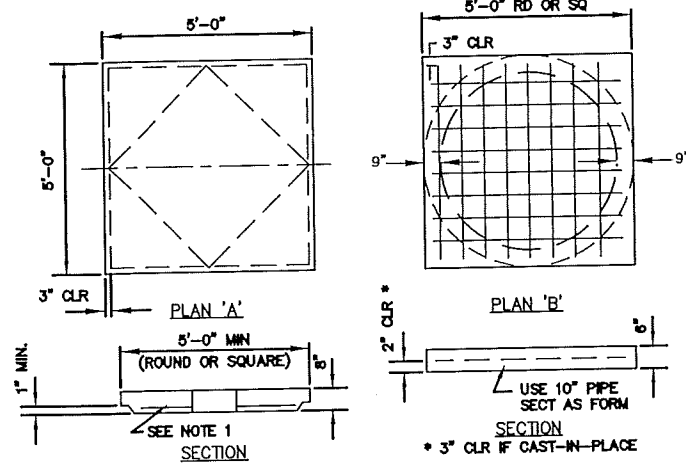


- NOTES:**
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER.
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

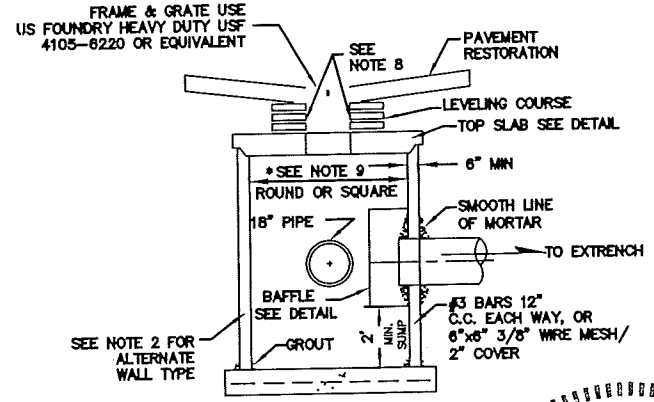
CATCH BASIN ASPHALT APRON DETAIL
N.T.S.



TOP SLAB DETAILS



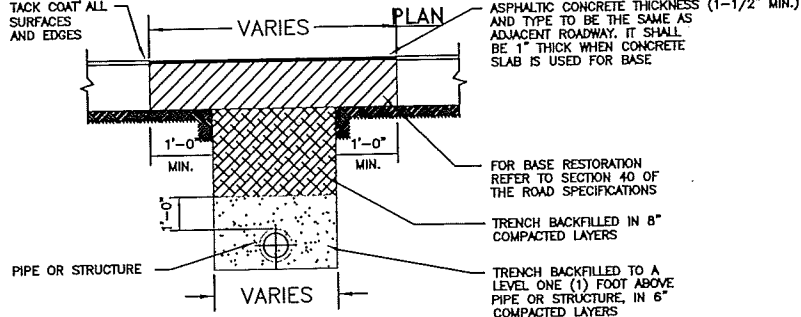
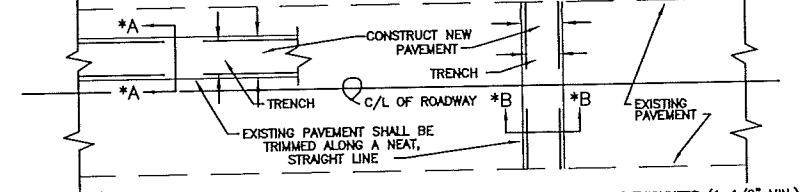
BOTTOM SLAB DETAILS



PRECAST CATCH BASIN
N.T.S.

- NOTES:**
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION CLASS C 78 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3'.
 5. USE 3,000 PSI CONCRETE. (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MDPW SD 2.6.
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.

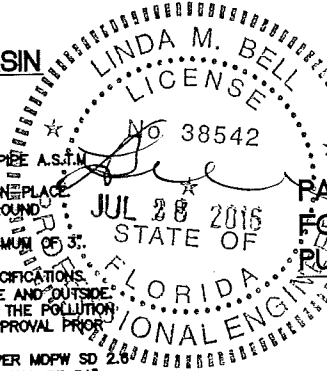
- NOTES:**
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL BE SOLELY WITH THE CONTRACTOR.
 10. WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 12. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.d. TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.



SECTION A-A & B-B

- NOTES:**
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
 2. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
 3. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY
N.T.S.



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SW 88 CT (AREA 6)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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DRAINAGE DETAILS
C-7

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DERM PLAN REVIEW FINAL APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

VILLAGE OF PALMETTO BAY SW 145 TERR (AREA 7) DRAINAGE IMPROVEMENTS

CORE REVIEWER (PRINT) MARIA JOK
SIGNATURE [Signature] DATE 8-5-16

LIST OF SHEETS:

SHT. No.	DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3	DRAINAGE PLAN
C-4	DRAINAGE DETAILS



TRIAL

ID: 2016-DTM-MISC-00070

Contact Name: RAMON ALVAREZ

Contact Phone: 3055058477

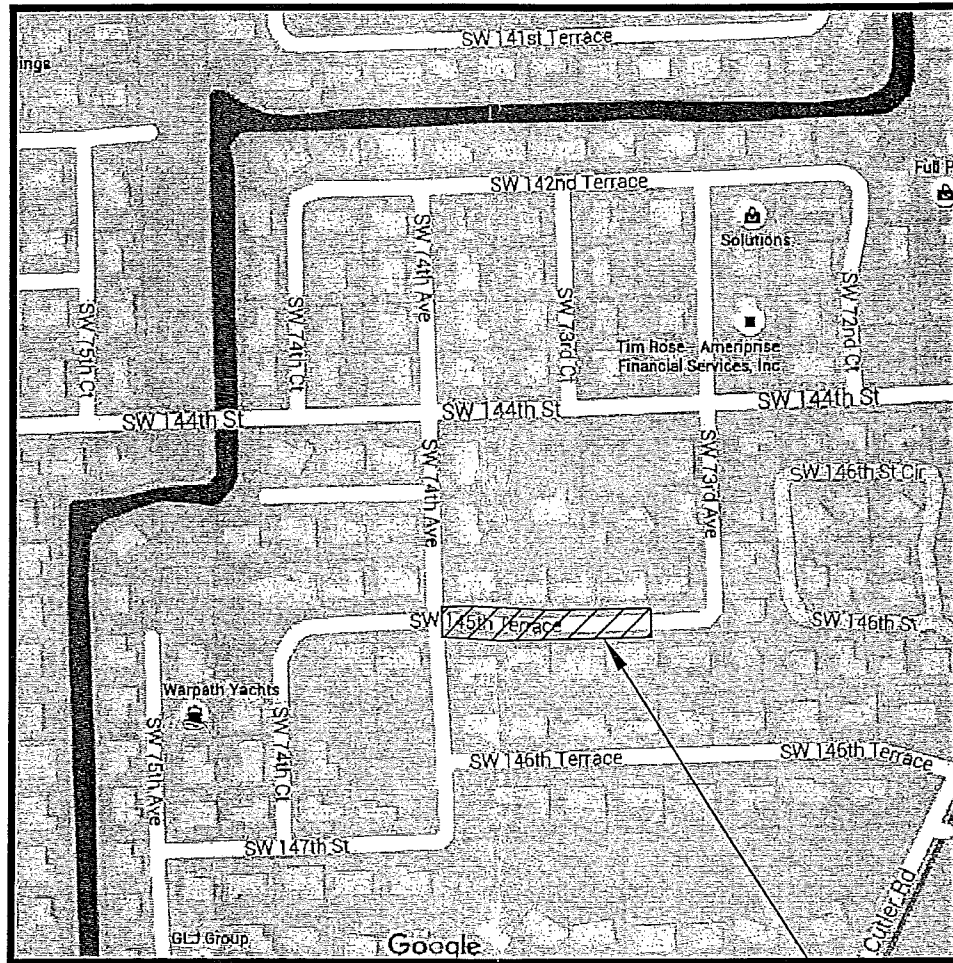
Folio: 33-5023-023-0050

App. Name: PAVING & DRAINAGE REVIEW

Date: 08/02/2016

Reviewer:

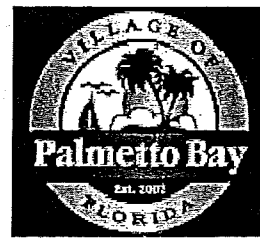
ENGINEER OF RECORD: LINDA BELL, P.E.
P.E.: #38542



LOCATION SKETCH

PROJECT LOCATION

6/8/16 90% PROGRESS SET

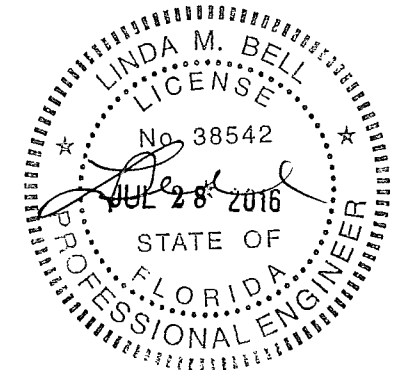


PREPARED FOR:
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PREPARED BY:

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CA 07528
Miami ♦ Coral Springs ♦ Orlando



Village of Palmetto Bay
Department of Public Services
Plan Reviewed By:
[Signature]
Signature Date

GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY, MIAMI-DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS, AND SWALE TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE VILLAGE OF PALMETTO BAY.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT SAWCUT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING ALL UTILITY LOCATES.
9. ALL TREES ARE TO REMAIN AND SHALL BE PROTECTED IN PLACE. ANY TREE TRIMMING SHALL BE DISCUSSED WITH THE OWNER AND SHALL BE CONDUCTED BY A CERTIFIED ARBORIST, AND INCLUDED IN COST OF PIPE.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN THE PROJECT SPECIFICATIONS, FOR APPROVAL BY THE VILLAGE/ ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20.
17. ALL STRUCTURES AND COVERS MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE-SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD (LATEST EDITION) AND FDOT INDEX 600. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M.: MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.
2. COST OF ASPH. APRON TO BE INCLUDED IN THE COST OF THE CATCH BASINS.
3. PROVIDE AND INSTALL A BAFFLE IN FRONT OF PIPING THAT CONNECT DIRECTLY TO EXFILTRATION TRENCHES. (STRUCTURES S1-7, AND S2-7, 2 TOTAL). SEE DETAIL. COST TO BE INCLUDED IN THE COST OF THE STRUCTURE.



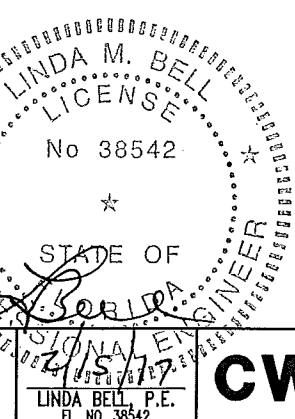
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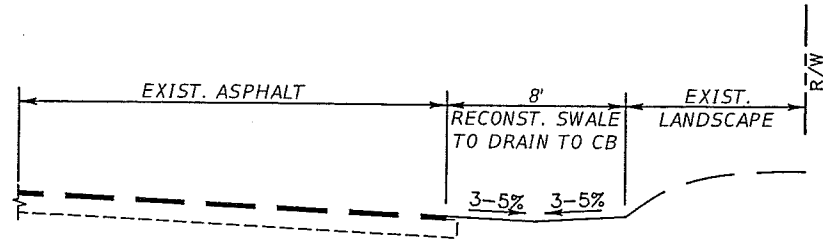


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GENERAL NOTES

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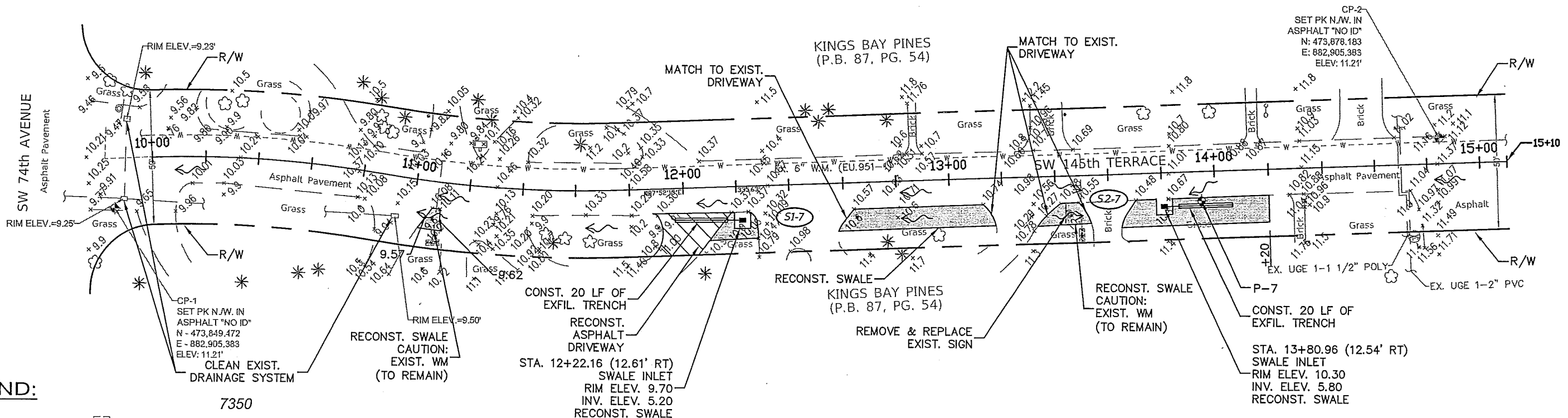
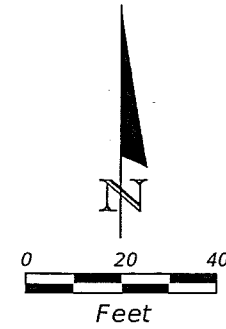


RECONST. SWALE TYPICAL SECTION
N.T.S.

EXCAVATE SWALE. PLACE FOUR (4) INCHES OF CLEAN SOIL AND SOD WITH ST. AUGUSTINE. SAMPLE OF SOIL TO BE PROVIDED FOR APPROVAL.

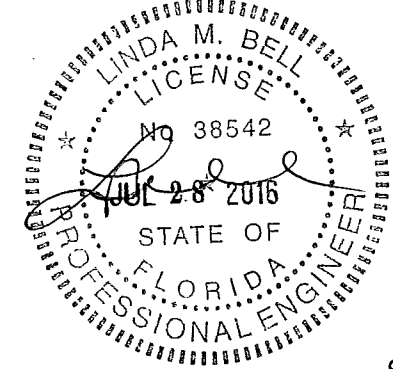
RECONSTRUCT DRIVEWAY

- SAWCUT NEAT STRAIGHT LINES PRIOR TO EXCAVATING.
- CONST. DRAINAGE.
- BACKFILL WITH CLEAN SUITABLE FILL. COMPACT TO A MIN OF 95% OF MAX DENSITY.
- PLACE 6" OF LIMEROCK (LBR-100).
- PLACE TACK COAT.
- PLACE 1" OF S-III ASPHALT.



LEGEND:

- | | | | |
|-----------------------|------------------|--------------------------|--|
| SEWER MANHOLE | WIRING PULL BOX | ELECTRIC OUTLET | |
| STORM MANHOLE | SERVICE CABINET | FLOOD LIGHT | |
| UNKNOWN MANHOLE | GUARD POST | SWALE | |
| WATER VALVE | TREE | UGE UNDERGROUND ELECTRIC | |
| WATER METER | TREE PALM | PERC. TEST | |
| CONTROL POINT | ORNAMENTAL PLANT | LINES TYPE: | |
| CATCH BASIN | GUY ANCHOR | OVERHEAD UTILITY LINE | |
| FIRE HYDRANT | LIGHT POLE | FENCE | |
| POWER POLE (CONCRETE) | MAIL BOX | RIGHT OF WAY LINE | |
| SIGN | SPOT ELEVATION | PAVEMENT MARKS | |
| | MULTICOLUMN SIGN | VEGETATION LINE | |



SW 145 TERR (AREA 7)

REVISIONS				Date	Description
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			06/08/2016		

Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

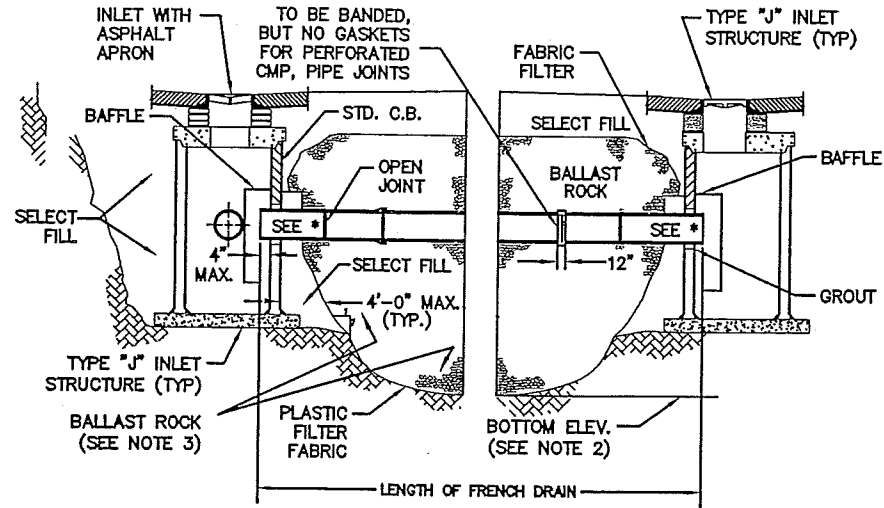
	PUBLIC WORKS 9705 EAST HIBISCUS STREET PALMETTO BAY, FL 33157 PH: (305) 259-1234 FAX: (305) 259-1290 www.palmetto-flgov.com
	LINDA BELL, P.E. FL NO. 38542

	Civil Works, Inc. Consulting Engineers CA 07528 8491 N.W. 17 ST., Suite 108 Doral, FL 33126 (305)591-4323
	DRAINAGE PLAN

C-3

6/9/2016 11:11:44 AM, COMPUTER-50, 11x17

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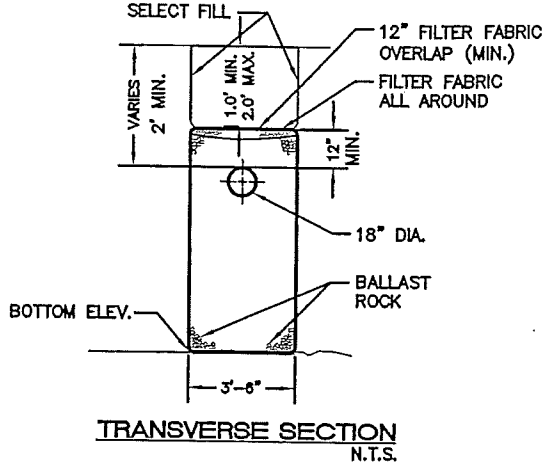


LONGITUDINAL SECTION

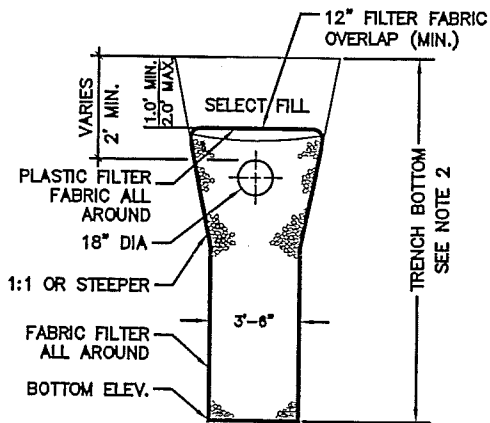
- NOTES:
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

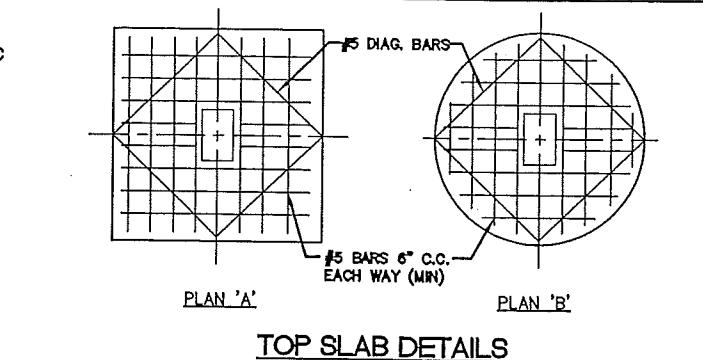
EXFILTRATION DETAIL (MDPW SD 1.1)
N.T.S.



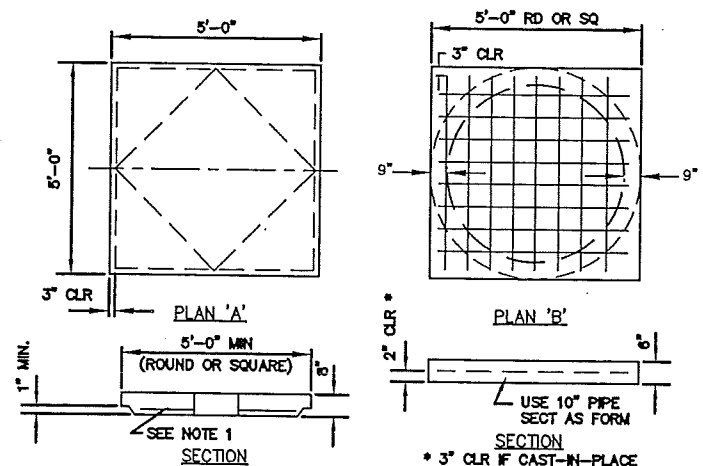
TRANSVERSE SECTION
N.T.S.



ALT. TRANS. SECTION
N.T.S.

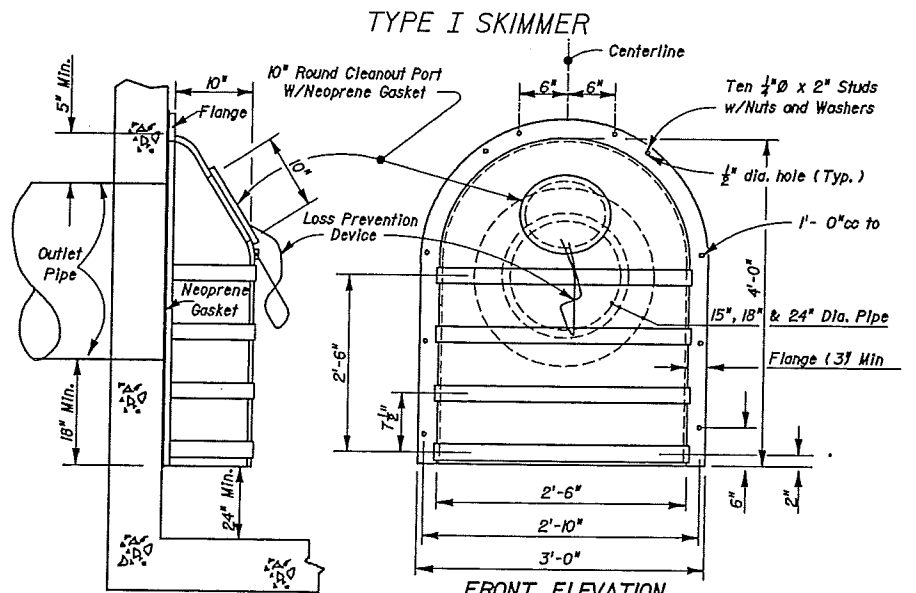


TOP SLAB DETAILS



BOTTOM SLAB DETAILS

- NOTES:
1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
 2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & MIAMI-DADE COUNTY PUBLIC WORKS.
 3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
 4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
 5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
 6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
 7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
 8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
 9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL LIE SOLELY WITH THE CONTRACTOR.
 10. - WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
 - 10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
 - 10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPY COPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
 - 10.c. - CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
 - 10.d. - CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING LABORATORY TO PROVIDE CERTIFICATION AS TO THE FOLLOWING:
 - 12.a. - SUBGRADE THICKNESS AND MINIMUM LBR-40 AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.b. - LIMEROCK BASE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.c. - ASPHALT SURFACE COURSE THICKNESS AND COMPACTION DENSITY CONFORMING TO SPECIFICATIONS;
 - 12.d. - TEN (10) TESTS WILL BE PERFORMED AT LOCATIONS CHOSEN BY THE ENGINEER.
 13. - COPIES OF ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

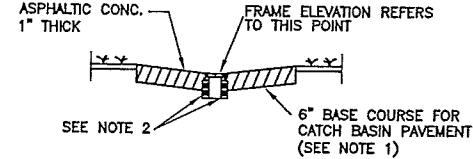
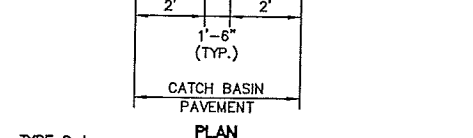
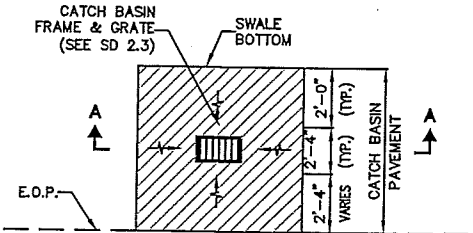


TYPE I SKIMMER

Note: The cleanout part for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches

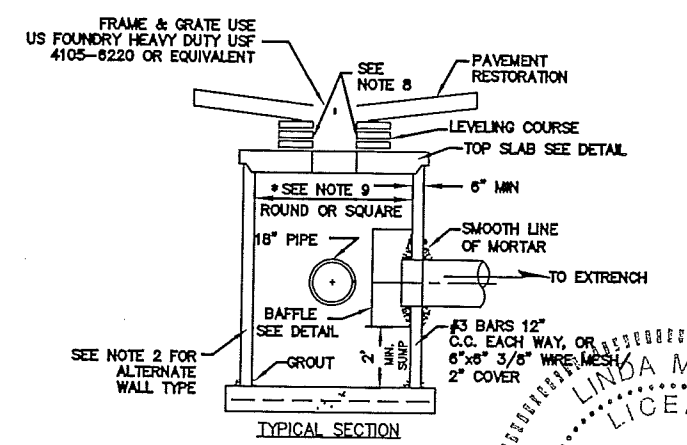
TYPE II SKIMMER

SKIMMER DETAILS PER FDOT INDEX 241
N.T.S.



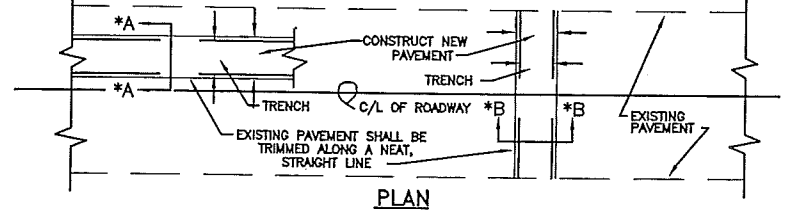
- NOTES:
1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER
 2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

CATCH BASIN ASPHALT APRON DETAIL
N.T.S.

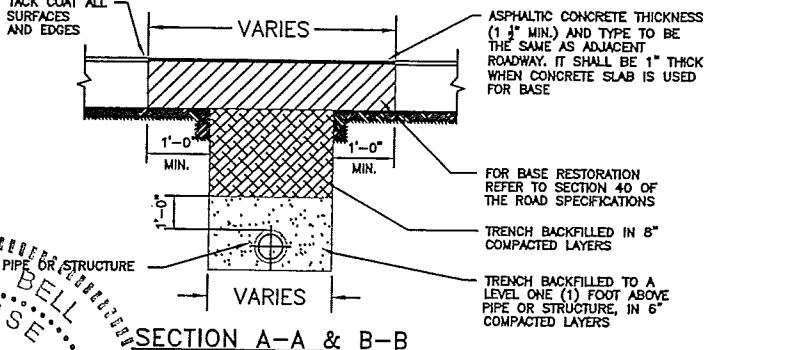


PRECAST CATCH BASIN
N.T.S.

- NOTES:
1. CAST TOP SLAB TO FIT WALL USED.
 2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION CLASS C 76 CLASS III.
 3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
 4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
 5. USE 3,000 PSI CONCRETE (MINIMUM).
 6. MORTAR SHALL BE AS SPECIFIED IN FOOT SPECIFICATIONS.
 7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
 9. TYPE P OR J BOTTOMS SHALL BE USED PER MOPW SD 2.6
 10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.



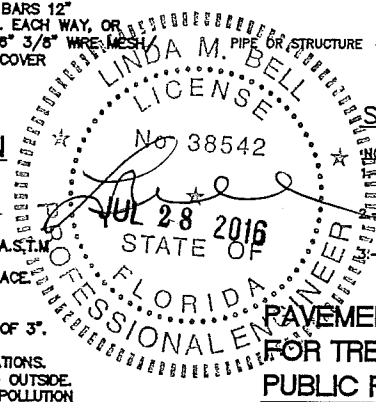
PLAN



SECTION A-A & B-B

- NOTES:
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE REQUIREMENTS.
 2. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX, AT NO EXTRA COST TO THE OWNER.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY
N.T.S.



REVISIONS			
DATE	BY	DESCRIPTION	

Date	06/08/2016
Drawn	RLR
Checked	VS
Manager	Linda Bell, P.E.
Submittal	100%

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