

DOMINION SELF STORAGE
MARGATE, BROWARD COUNTY, FLORIDA

B.C. REF NO. 100827001

GENERAL NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES ON THE PLAN IS APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES TO BE CONNECTED SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REDESIGN BY THE ENGINEER IF SUCH UTILITIES ARE FOUND TO BE DIFFERENT THAN SHOWN ON THESE PLANS.
2. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT THE CITY OF MARGATE ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY SHAH, DROTOS & ASSOCIATES AT 954-943-9433 AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER & LIGHT CO., SOUTHERN BELL TELEPHONE CO., THE LOCAL WATER AND SEWER UTILITY COMPANIES AND ANY OTHER UTILITY COMPANY WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS BEFORE BEGINNING CONSTRUCTION.
6. A PRE-CONSTRUCTION MEETING IS TO BE HELD BETWEEN THE CITY OF MARGATE, THE UTILITY COMPANIES, ENGINEER OF RECORD AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR MUST NOTIFY THE CITY OF MARGATE UTILITIES DEPARTMENT 48 HOURS PRIOR TO TYING INTO ANY EXISTING STRUCTURES AND HAVE AN INSPECTOR PRESENT.
8. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COSTS OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.
9. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
10. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND (INCLUDING SPRINKLERS) SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGE PRIOR TO THE CONSTRUCTION OF PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
11. ALL LABOR, MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF MARGATE UTILITIES DEPARTMENT AND THE PLANS AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, THE CITY OF MARGATE UTILITIES DEPARTMENT STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
12. CONSTRUCTION INSPECTION WILL BE PERFORMED BY THE ENGINEER AND IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION, AND AT LEAST 48 HOURS BEFORE REQUIRING INSPECTION OF EACH AND EVERY PHASE OF WORK.
13. CONSTRUCTION SURVEYING WILL BE PERFORMED BY THE ENGINEER OR SURVEYORS DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONTACT THE SURVEYOR NOT LESS THAN 48 HOURS BEFORE THE SURVEYORS ARE NEEDED ON-SITE TO STAKE OUT ANY PHASE OF WORK. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROTECTING ALL SURVEY STAKES AND MONUMENTS. REPLACEMENT COSTS OF ALL STAKES SHALL BE BORNE BY THE CONTRACTOR.
14. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
15. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE DRAWINGS WILL THEN BE FORWARDED TO THE CITY OF MARGATE UTILITIES DEPARTMENT AND ENGINEERING DEPARTMENT.
16. CONTRACTOR TO MAINTAIN THE TRAFFIC DURING THE CONSTRUCTION OF OFF-SITE UTILITIES AND KEEP STREET OPEN EVERYDAY AFTER DAILY CONSTRUCTION IS COMPLETED, AS REQUIRED BY THE CITY OF MARGATE.
17. THE CONTRACTOR IS NOT ALLOWED TO CLOSE STREET TRAFFIC DURING VERTICAL CONSTRUCTION (BUILDINGS) PER CITY OF MARGATE.
18. MAINTENANCE OF TRAFFIC FOR PUBLIC STREETS SHALL BE PROPERLY COORDINATED WITH THE CITY OF MARGATE AS REQUIRED BY THE CITY.
19. THE PUBLIC ROADWAY(S) INDICATED IN THESE PLANS HAS BEEN DESIGNED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS - STATE OF FLORIDA."
20. THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH FDOT "DESIGN STANDARDS".
21. ALL WORK DONE WITHIN THE RIGHT OF WAY OF COCONUT CREEK PARKWAY SHALL BE IN ACCORDANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS.

LAND DESCRIPTION:

A PORTION OF PARCEL "B", OF CENTRAL PARK OF COMMERCE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 119, PAGE 27 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID PARCEL B;

THENCE SOUTH 88°46'12" WEST, ALONG THE SOUTH BOUNDARY OF SAID PARCEL B, ALSO BEING THE NORTH RIGHT-OF WAY LINE FOR COCONUT CREEK PARKWAY, 79.29 FEET;

THENCE NORTH 86°22'18" WEST, ALONG SAID RIGHT-OF-WAY, 200.72 FEET;

THENCE SOUTH 88°46'12" WEST, ALONG SAID RIGHT-OF-WAY 11.98 FEET TO THE POINT OF BEGINNING;

THENCE CONTINUE SOUTH 88°46'12" WEST, ALONG SAID RIGHT-OF-WAY 288.02 FEET;

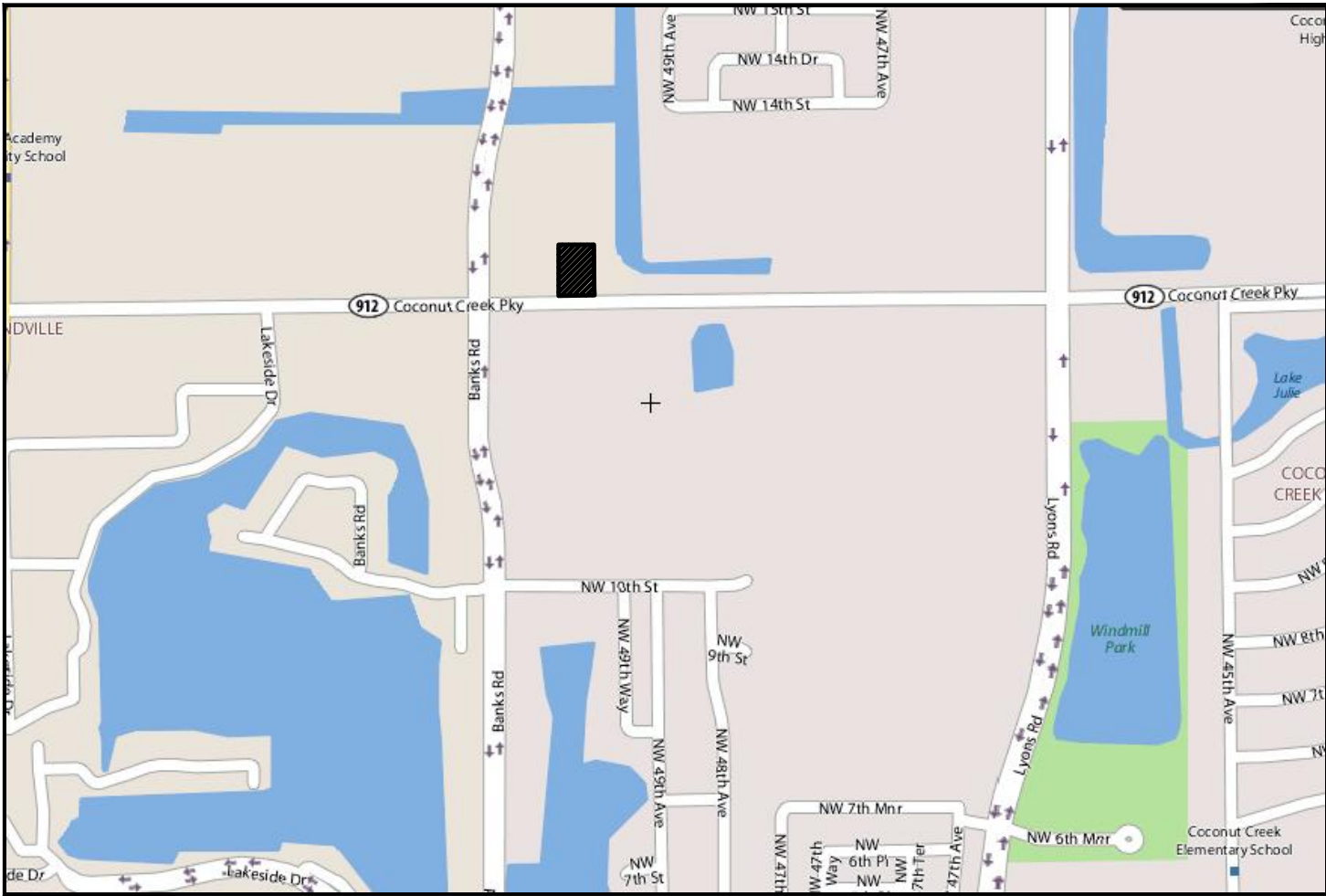
THENCE NORTH 45°48'08" WEST, ALONG SAID RIGHT-OF-WAY, 49.86 FEET TO THE EAST RIGHT-OF-WAY LINE FOR BANKS ROAD;

THENCE RUN NORTH 00°22'24" WEST, ALONG SAID RIGHT-OF-WAY LINE, 211.68 FEET;

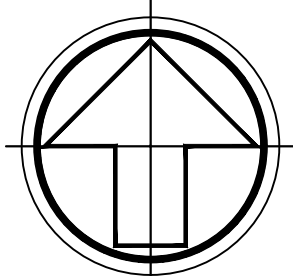
THENCE NORTH 89°57'26" EAST, 324.90 FEET; THENCE SOUTH 00°02'34" EAST, 240.50 FEET TO THE POINT OF BEGINNING.

SAID LANDS LYING IN THE CITY OF MARGATE, BROWARD COUNTY, FLORIDA, CONTAINING 78,423 SQUARE FEET (1.800 ACRES), MORE OR LESS.

THE PUBLIC ROADWAYS INDICATED THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH FDOT "DESIGN STANDARDS."



LOCATION MAP



NOT TO SCALE

INDEX OF SHEETS

| | |
|---------|--------------------------------------|
| CE1 | COVER SHEET |
| CE2 | PAVING GRADING AND DRAINAGE PLAN |
| CE3 | WATER AND SEWER PLAN |
| CE4-CE6 | PAVING, GRADING AND DRAINAGE DETAILS |
| CE7-CE8 | WATER AND SEWER DETAILS |
| CE9 | POLLUTION PREVENTION PLAN |

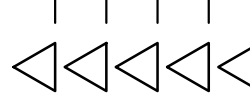
DOMINION STORAGE

BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA

KENNETH R. CARLSON - ARCHITECT, P.A.

1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
e-mail: kenc@kencarlson.com
AA 001878
FAX (954) 427 - 9929

Revisions:



PERMIT SET
MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

MATERIAL

ALL MATERIAL USED AND INSTALLATIONS MADE WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY ENGINEERING DIVISION "MINIMUM STANDARDS"

NOTICE

INSPECTION REQUIRED
24HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT-OF-WAY CONTACT THE BROWARD COUNTY ENGINEERING DIVISION AT (954)357-6233 FOR INSPECTION

NOTE

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY.

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS.
☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE.

BY: _____ DATE: _____

DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING AND SIGNS

BROWARD COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

0761C.01

SDA SHAH
& ASSOCIATES DROTOS

ENGINEERING
SURVEYING
PLANNING

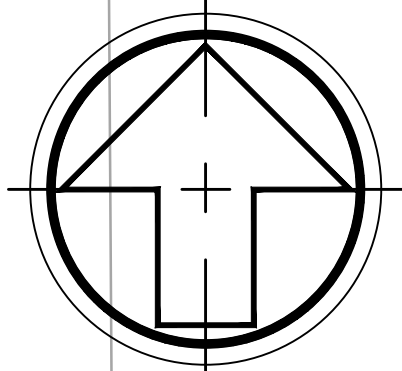
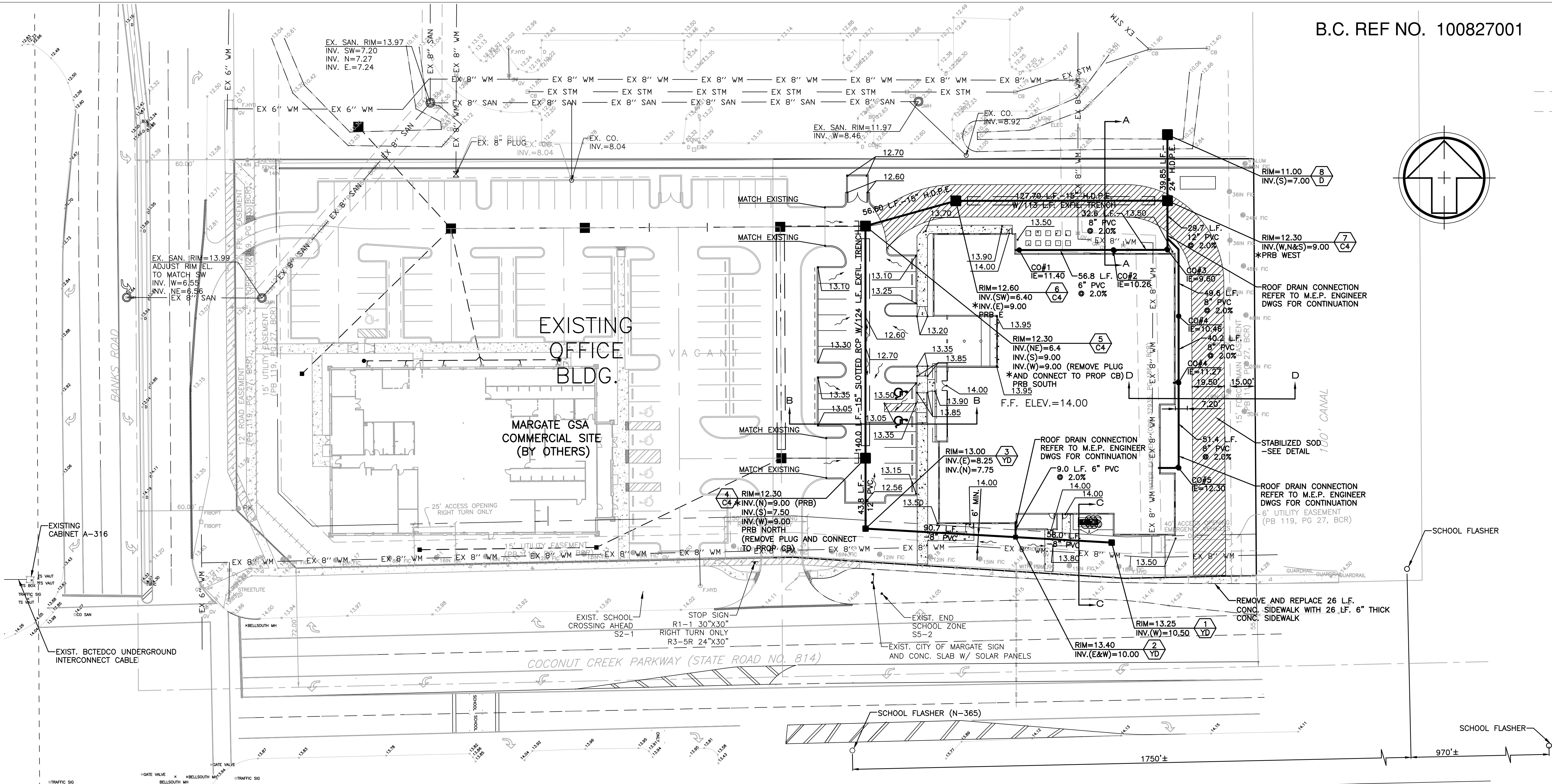
ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, Fl. 33064
PH: 954-943-9433 • FAX: 954-783-4754

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505

KENNETH R. CARLSON
AR12546

CE1



DOMINION STORAGE

BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA

KENNETH R. CARLSON - ARCHITECT, P.A.

1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
e-mail: kenc@kencarlson.com

Revisions:



DRAWN BY: MFG
CHECKED BY: JFD
DATE: 2/16/15
SCALE: AS NOTED
PROJECT #: 15016
CAD DWG FILE:

AR12546
KENNETH R. CARLSON

PAVING AND GRADING LEGEND

- R.C.P.= REINFORCED CONCRETE PIPE
- INV.= STORM INVERT ELEVATION
- STORM MAINTENANCE ACCESS STRUCTURE
- CATCH BASIN
- CONCRETE APRON
- (PRB) POLLUTION RETARDANT BAFFLE
- EXISTING ELEVATION
- PROPOSED ELEVATION
- TOP OF CURB ELEVATION
- STRUCTURE NO.
- RIM ELEVATION
- INVERT ELEVATION
- TYPE OF STRUCTURE
- TYPE "D" CURB
- TYPE "F" CURB
- VALLEY GUTTER
- HANDICAPPED RAMP PER FDOT INDEX 304
- OVERHEAD WIRE

MAINTENANCE OF TRAFFIC

"Communications Notes"

The agency responsible for maintenance of the traffic signals and related equipment is Broward County Traffic Engineering Division (BCTED). All system communications equipment, cabling and related material shall comply with Broward County's latest edition of the minimum standards as expressed in the "Standards and Specifications - Communication Infrastructure" document. Please refer to (BCTED's) Communications Policies and Procedures for additional information. Broward County Traffic Engineering Division will not accept any projects that do not meet these standards and specifications. If fiber optic pull boxes already exist at an intersection, no additional fiber optic pull boxes will need to be installed. For a copy of these standards refer to the Broward County web site at www.BROWARD.ORG/TRAFFIC under publications.

If there are Copper Interconnect Cable/s within your project limits or within 1500 feet of your project limits contact Bret Henderson, Traffic Signal Supervisor at bhenderson@broward.org or 954-847-2702.

If there are Fiber Optic Cable/s within your project limits or within 1500 feet of your project limits contact Robert Blount Communications Manager at rblount@broward.org or 954-357-8242.

All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance.

Broward County Traffic Engineering Division
Procedure for Notification of Communication Disruption

Copper Interconnect Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Traffic Signal Supervisor at bhenderson@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

Fiber Optic Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Traffic Signal Supervisor at rblount@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

2) MAINTENANCE OF TRAFFIC PLAN: CONTRACTOR IS RESPONSIBLE FOR PREPARING THE MAINTENANCE OF TRAFFIC PLAN AND FOR OBTAINING THE MAINTENANCE OF TRAFFIC PERMIT FROM THE BROWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT (BCTED).

3) SCHOOL/ PEDESTRIAN NOTES: THE MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR TRAFFIC. THE FOLLOWING ARE THE MINIMUM REQUIREMENTS.

THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING THE TIMES STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. IF THE CURRENT WALKING SURFACE CAN NOT BE MAINTAINED, THEN A TEMPORARY ROAD-ROCK 4" WALK WAY SHALL BE CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY BY THE 4" HIGH ORANGE CONSTRUCTION FENCE FOR THE ENTIRE LENGTH OF THE PROJECT OR THE LENGTH OF THE WALK ROUTE, WHICHEVER IS LESS.

ALL CONSTRUCTION EQUIPMENT AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE TIMES STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. ALL CONSTRUCTION EQUIPMENT ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.

IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CAN NOT BE MAINTAINED, THEN THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954)847-2671. A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER THAT AN ALTERNATE CROSSING/ROUTE CAN BE ESTABLISHED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKING AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ANY LOCATIONS OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, ONLY IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.

THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954)847-2671 TO ARRANGE A PRE-CONSTRUCTION - SCHOOL SAFETY MEETING.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BROWARD COUNTY SCHOOL BOARD PUBLIC TRANSPORTATION DEPARTMENT, TRANSPORTATION OPERATION SUPERVISOR (754)-321-4400 EXT.# 2013, TO ARRANGE A PRE-CONSTRUCTION - SCHOOL BUS ROUTE MEETING. THIS MEETING IS TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THIS MEETING SHALL INCLUDE THE SPECIAL PROJECTS COORDINATOR FROM BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954)847-2671.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE FOR ALL SCHOOL CHILDREN/PEDESTRIANS. THE SAFE WALK ROUTE SHALL BE PART OF THE MAINTENANCE OF TRAFFIC PLAN.

PERMIT SET
MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

NOTICE INSPECTION REQUIRED
24HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT-OF-WAY CONTACT THE BROWARD COUNTY ENGINEERING DIVISION AT (954)357-6233 FOR INSPECTION

NOTE
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION. A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY.

BROWARD COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

- PLAN CONSISTENT WITH PLAT REQUIREMENTS.
 - PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE.
- BY: _____ DATE: _____
- DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING AND SIGNS

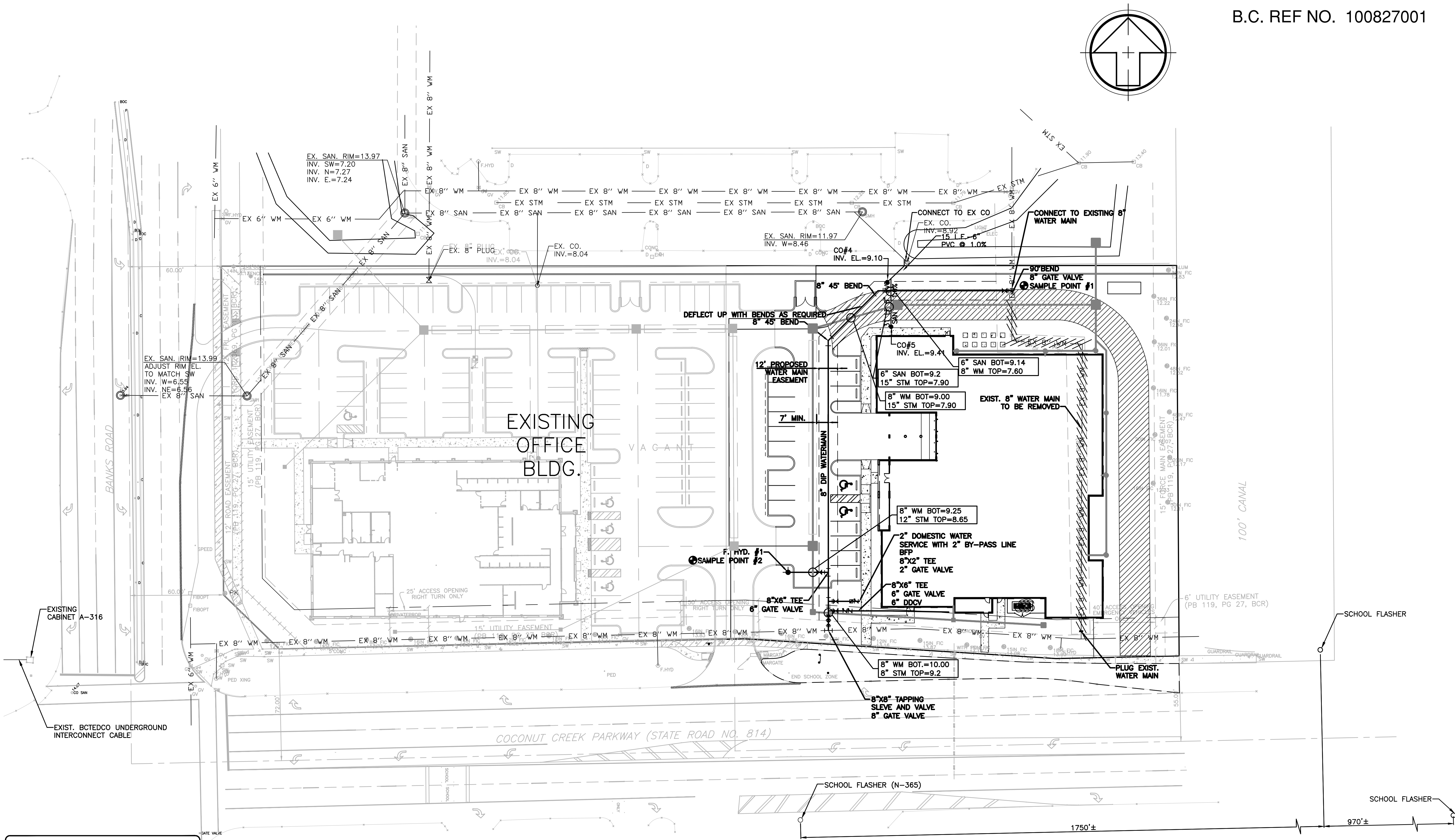


ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505



WATER AND SEWER LEGEND

- ① SANITARY SEWER STRUCTURE NUMBER
- R.E.= SANITARY SEWER RIM ELEVATION
- INV.= SANITARY SEWER INVERT ELEVATION
- WV= WATER VALVE
- SANITARY SEWER MAINTENANCE ACCESS STRUCTURE/ FLOW DIRECTION
- SANITARY (DOUBLE) SERVICE W/CLEANOUT
- SANITARY (SINGLE) SERVICE W/CLEANOUT
- FIRE HYDRANT ASSEMBLY
- WATER MAIN TEE, GATE VALVE AND REDUCER
- WATER MAIN PLUG WITH BLOW-OFF
- SINGLE WATER METER BOX
- DOUBLE WATER METER BOX
- WATER SAMPLE POINT
- TEES AND BENDS
- FIRE DEPT. CONNECTION
- N PROPOSED BACKFLOW PREV.

SDA SHAH DROTOS & ASSOCIATES

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505

DOMINION STORAGE

BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA

KENNETH R. CARLSON - ARCHITECT, P.A.

1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848 FAX (954) 427 - 9929
e-mail: kenc@kencarlson.com

Revisions:

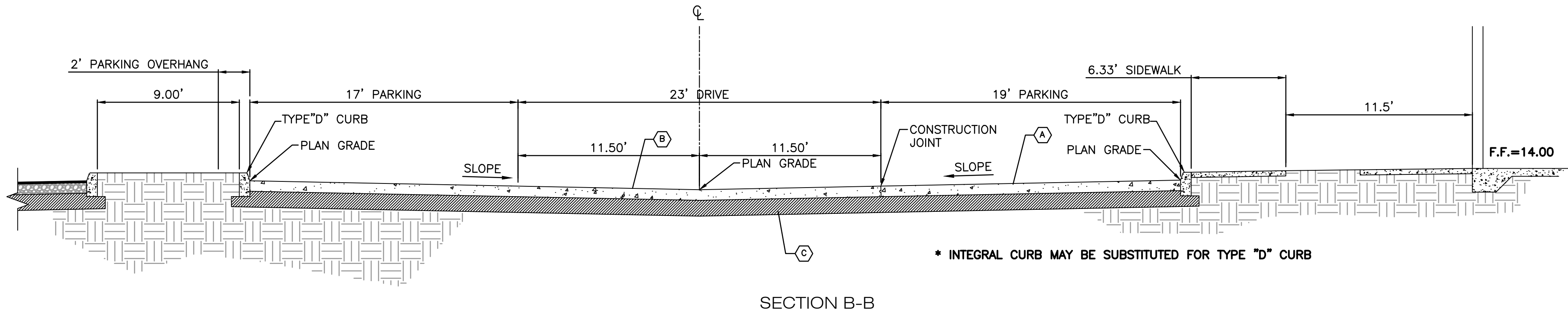
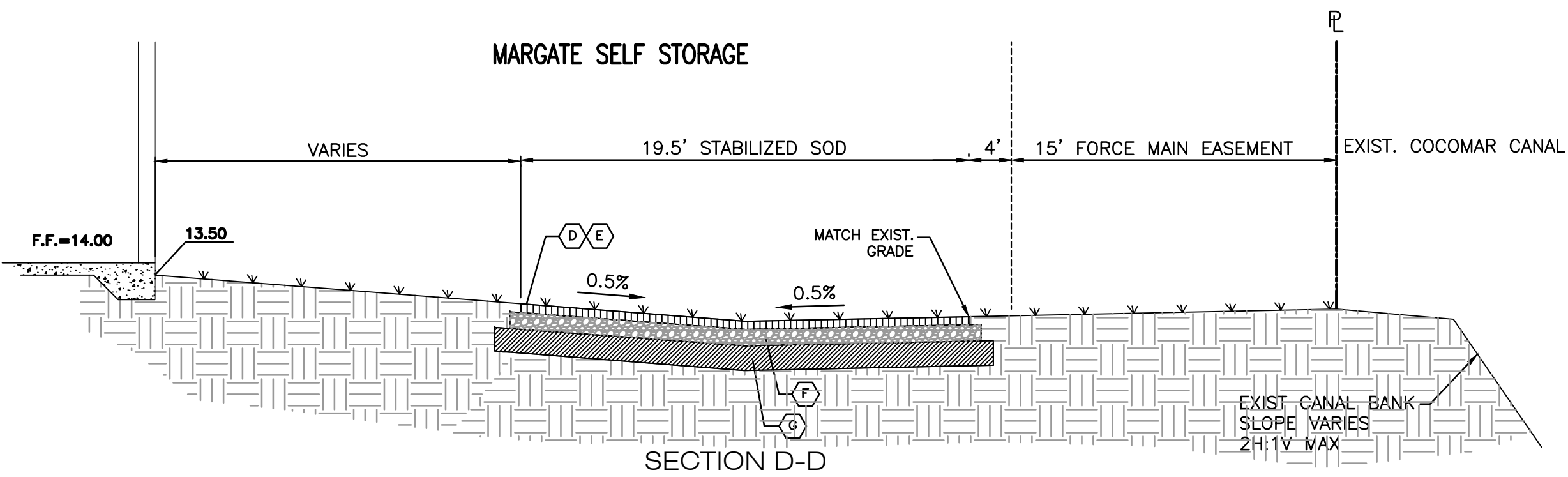
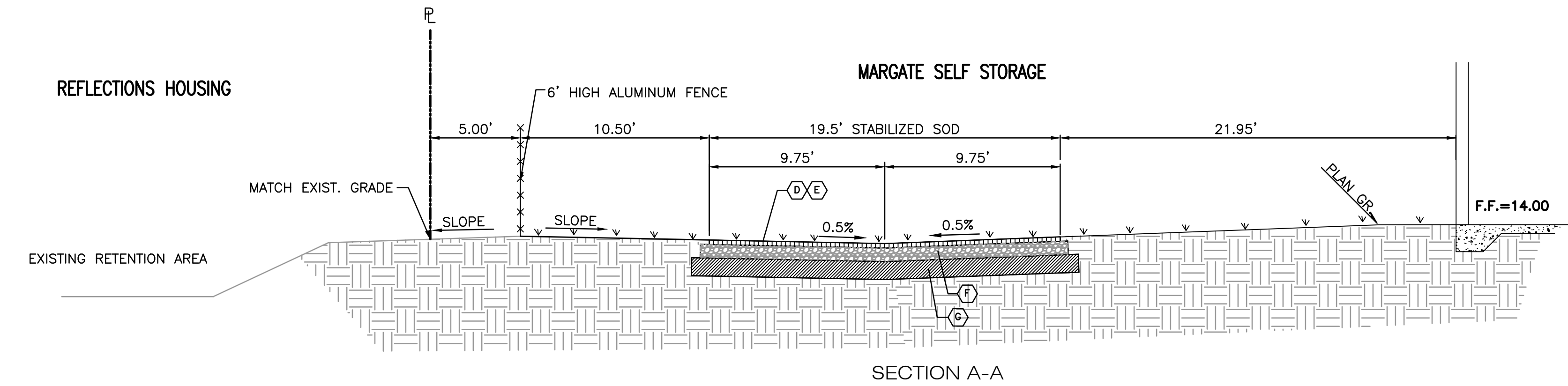
| | |
|---|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |

DRAWN BY: MFG
CHECKED BY: JFD
DATE: 2/16/15
SCALE: AS NOTED
PROJECT #: 15016
CAD DWG FILE:

AR12546

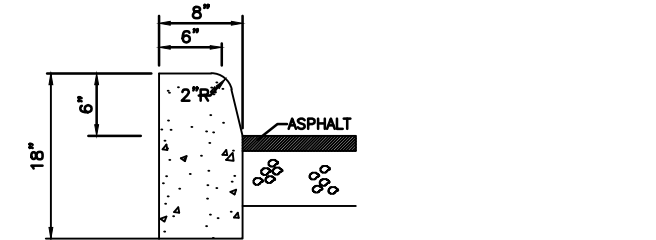
KENNETH R. CARLSON

CE3

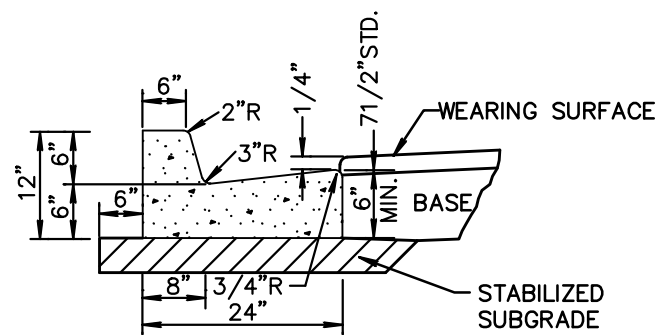


PAVING SPECIFICATIONS

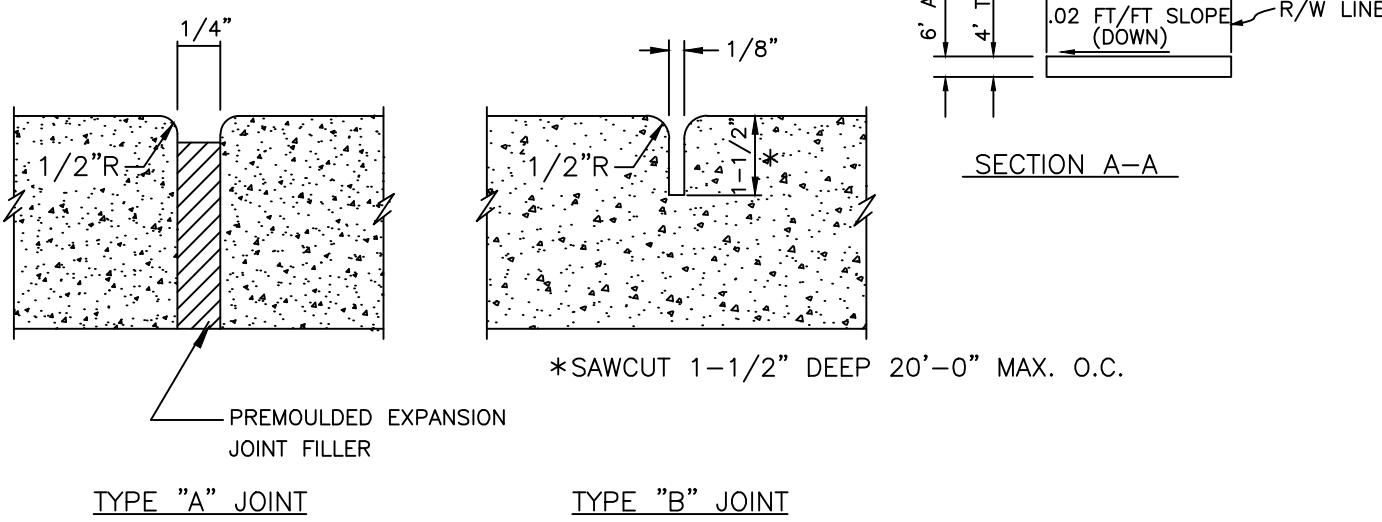
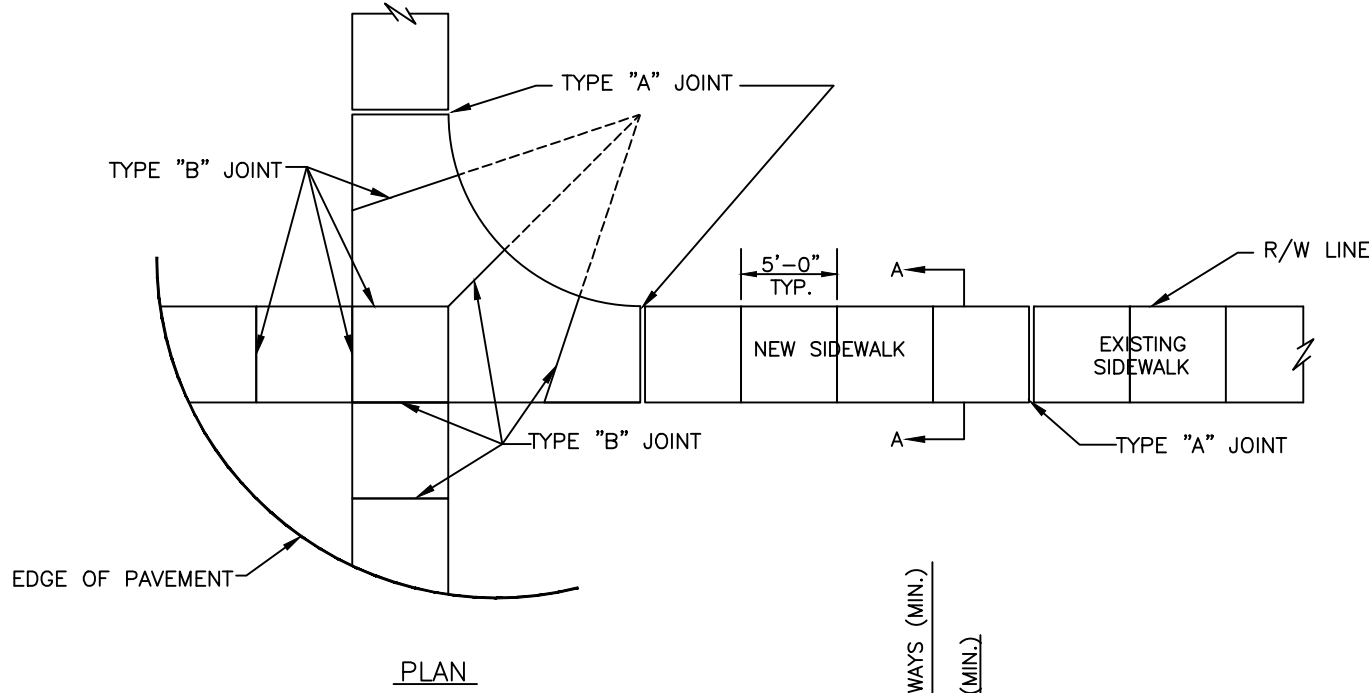
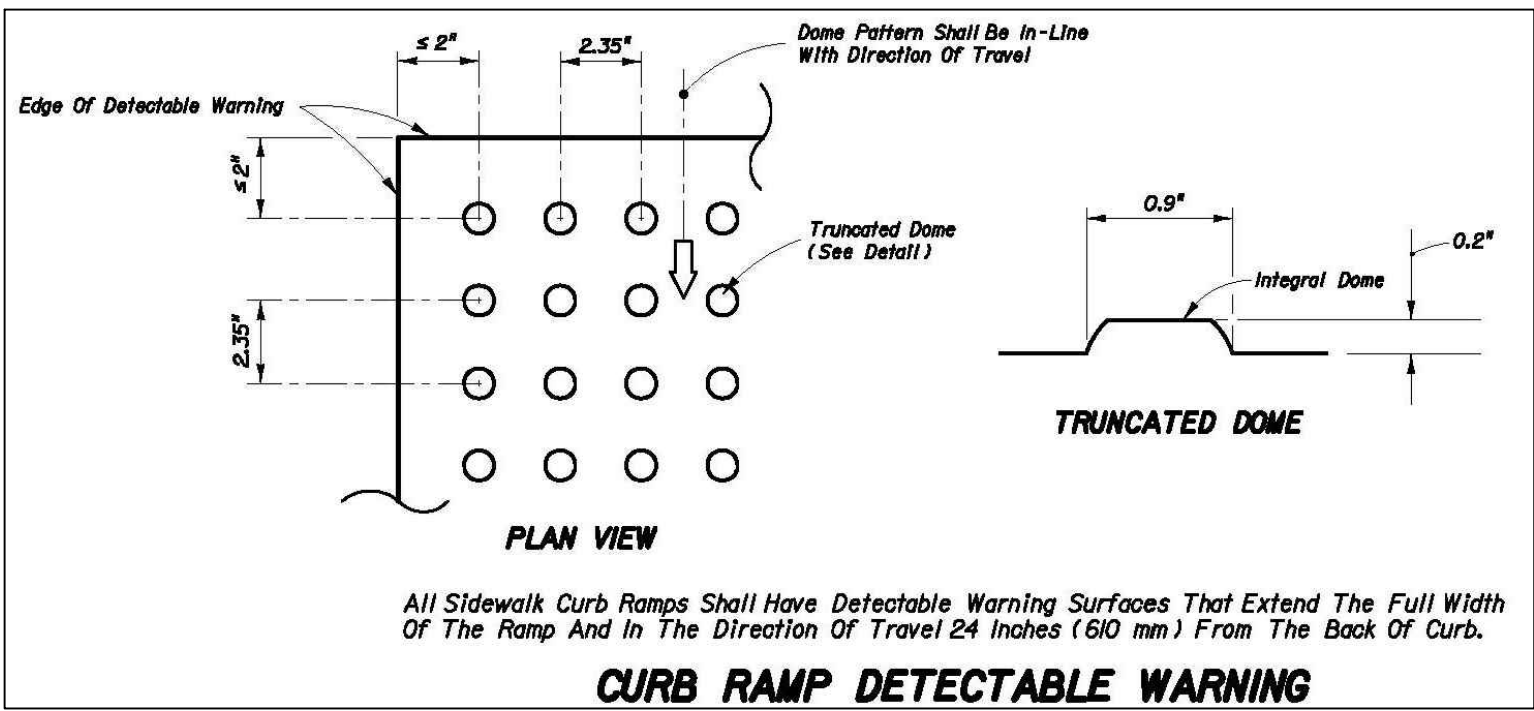
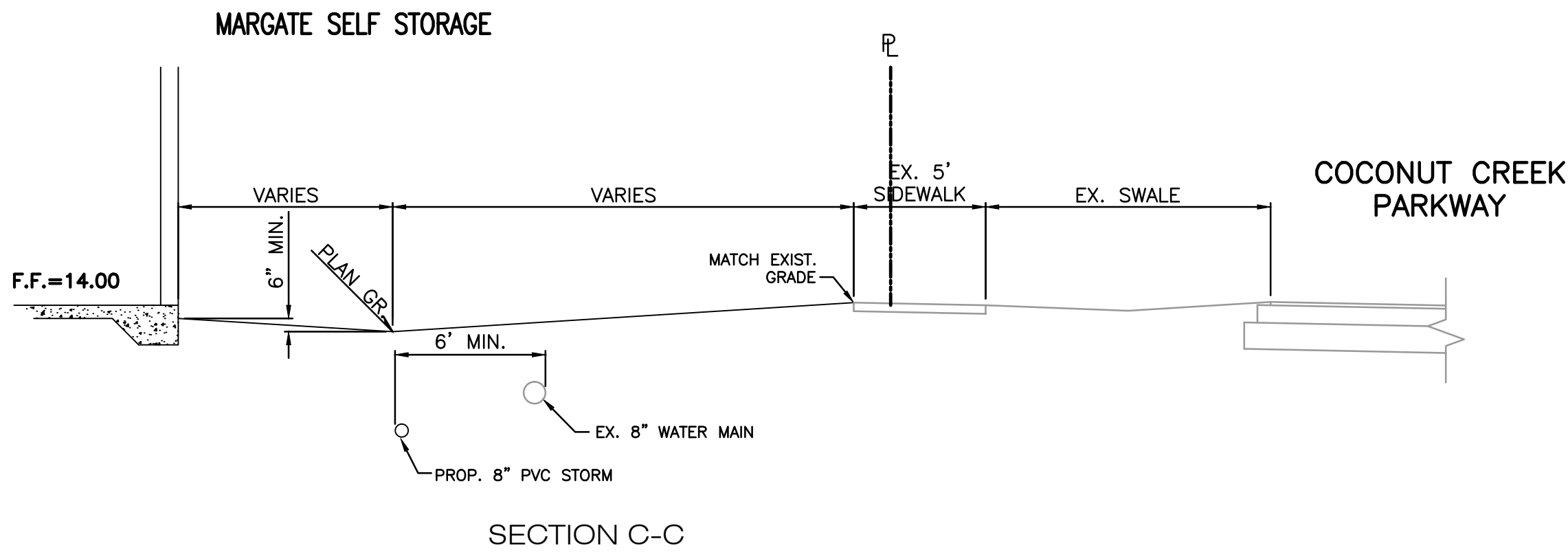
- (A) 6" CONCRETE PAVEMENT, 3000 PSI @ 28 DAYS WITH 6X6 10/10 WWM. CUT CONTROL JOINT WITHIN 6 HOURS OR WHEN CONCRETE CAN SUPPORT THE WEIGHT OF SAW. BROOM FINISH
- (B) 8" CONCRETE PAVEMENT, 3000 PSI @ 28 DAYS WITH 6X6 10/10 WWM. CUT CONTROL JOINT WITHIN 6 HOURS OR WHEN CONCRETE CAN SUPPORT THE WEIGHT OF SAW. BROOM FINISH
- (C) 12" SUBGRADE COMPACTED TO 98% MAX DENSITY AASHTO T-180, STABILIZE TO LBR 40 OR MIN. 75 PSI FBV.
- (D) SOD - SEE LANDSCAPE PLANS
- (E) GRASS PAVE 2 SOIL REINFORCEMENT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- (F) 8" LIMEROCK BASE COMPACTED IN (2) 4" LAYERS TO 98 (DENSITY AASHTO T-180.)
- (G) 12" SUBGRADE COMPACTED TO 98% MAX. DENSITY AASHTO T-180 STABILIZED TO LBR 40 OR FBV 50 P.S.I.



CONCRETE CURB
DETAIL TYPE "D"



CONCRETE CURB
AND GUTTER
DETAIL TYPE "F"

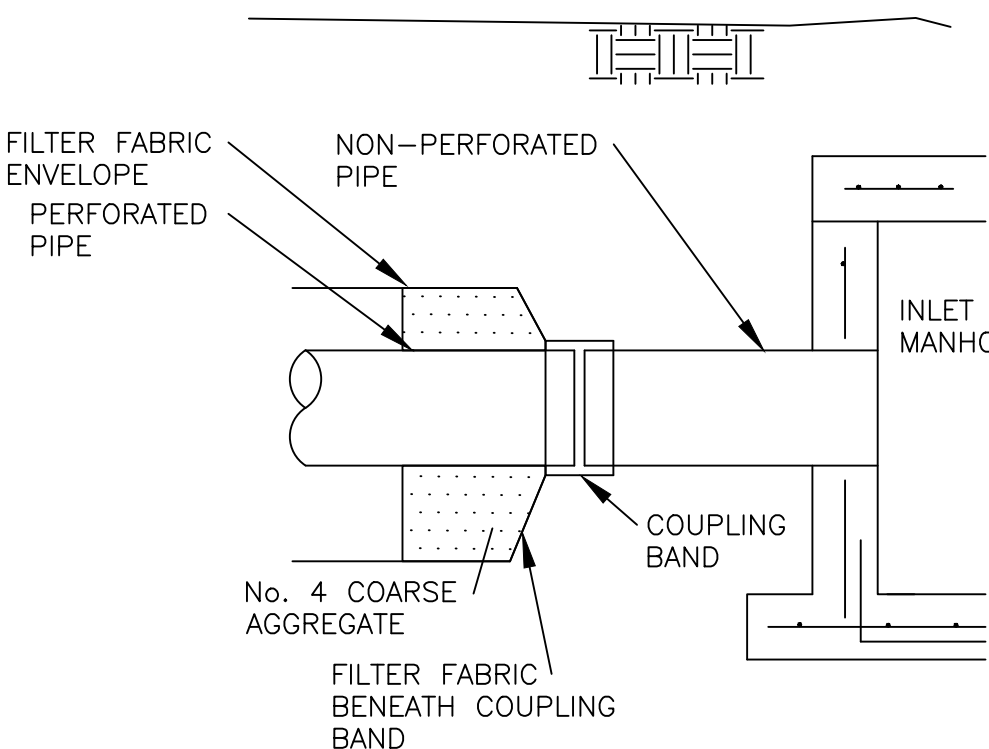
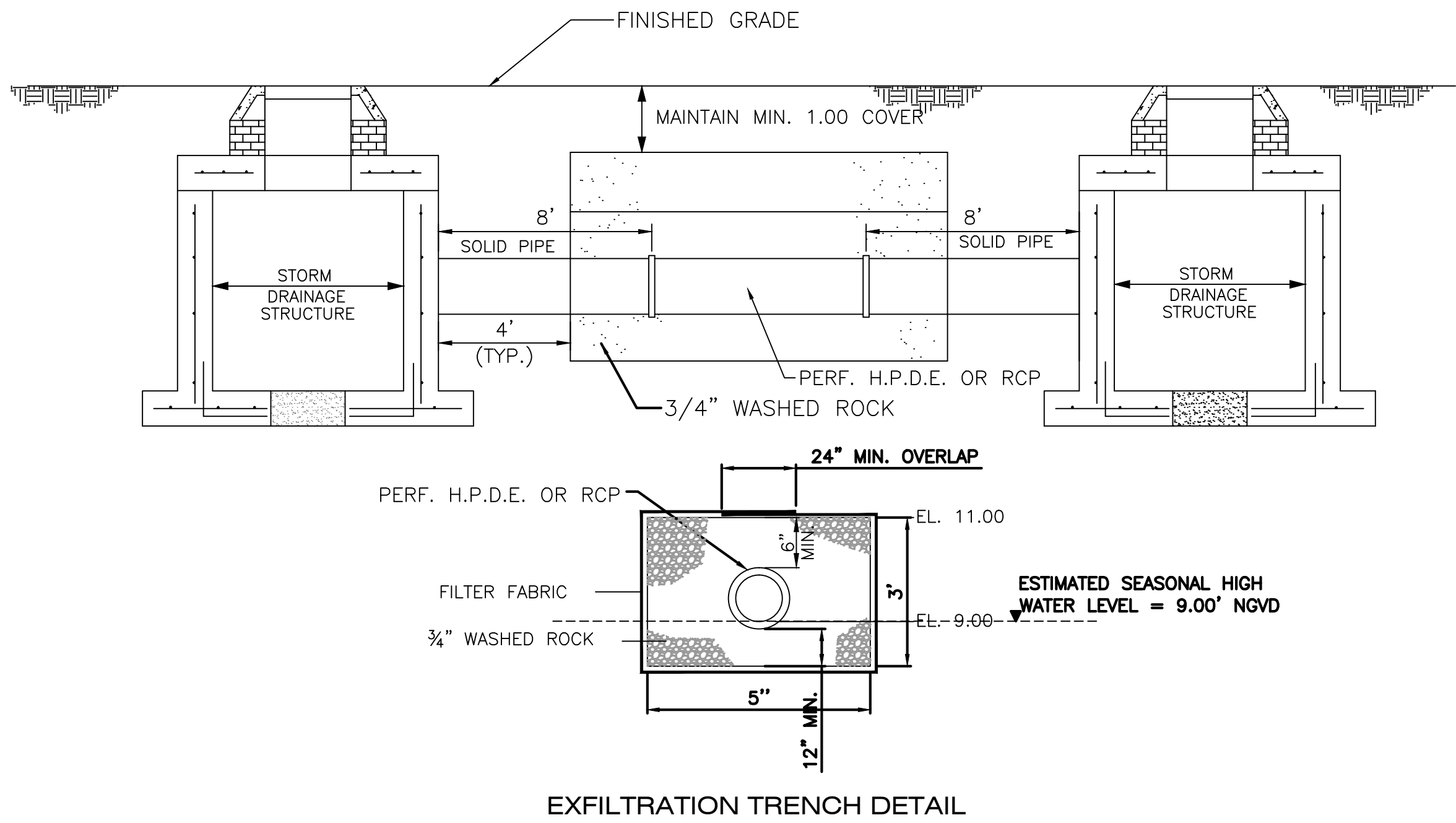


| TYPE | LOCATION |
|------|---------------------------------------|
| "A" | P.C. AND P.T. OF CURVES |
| "B" | 5 FEET CENTER TO CENTER ON SIDEWALKS. |

NOTE:

1. CONCRETE TO BE CLASS-1, 3000 P.S.I.
2. THE USE OF REINFORCEMENT CEMENT WILL NOT BE PERMITTED.
3. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE "AMERICAN WITH DISABILITIES ACT"

TYPICAL SIDEWALK DETAIL



- NOTES:
1. PIPES SHALL CONNECT TO ADDITIONAL CATCH BASINS AS REQUIRED
 2. BALLAST ROCK SHALL BE FROM FRESH WATER WASHED FREE OF DELETERIOUS MATTER.
 3. TRENCH TO BE LINED WITH AMOCO PROPEX 4545 OR APPROVED EQUIVALENT TYPE FILTER FABRIC. OVERLAP TRENCH LINING MATERIAL A MINIMUM OF 2' AT TOP OF TRENCH. CLOSE ENDS AND STRAP AROUND PIPE.

SDA SHAH
DROTOS
& ASSOCIATES

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505

DOMINION STORAGE
BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA

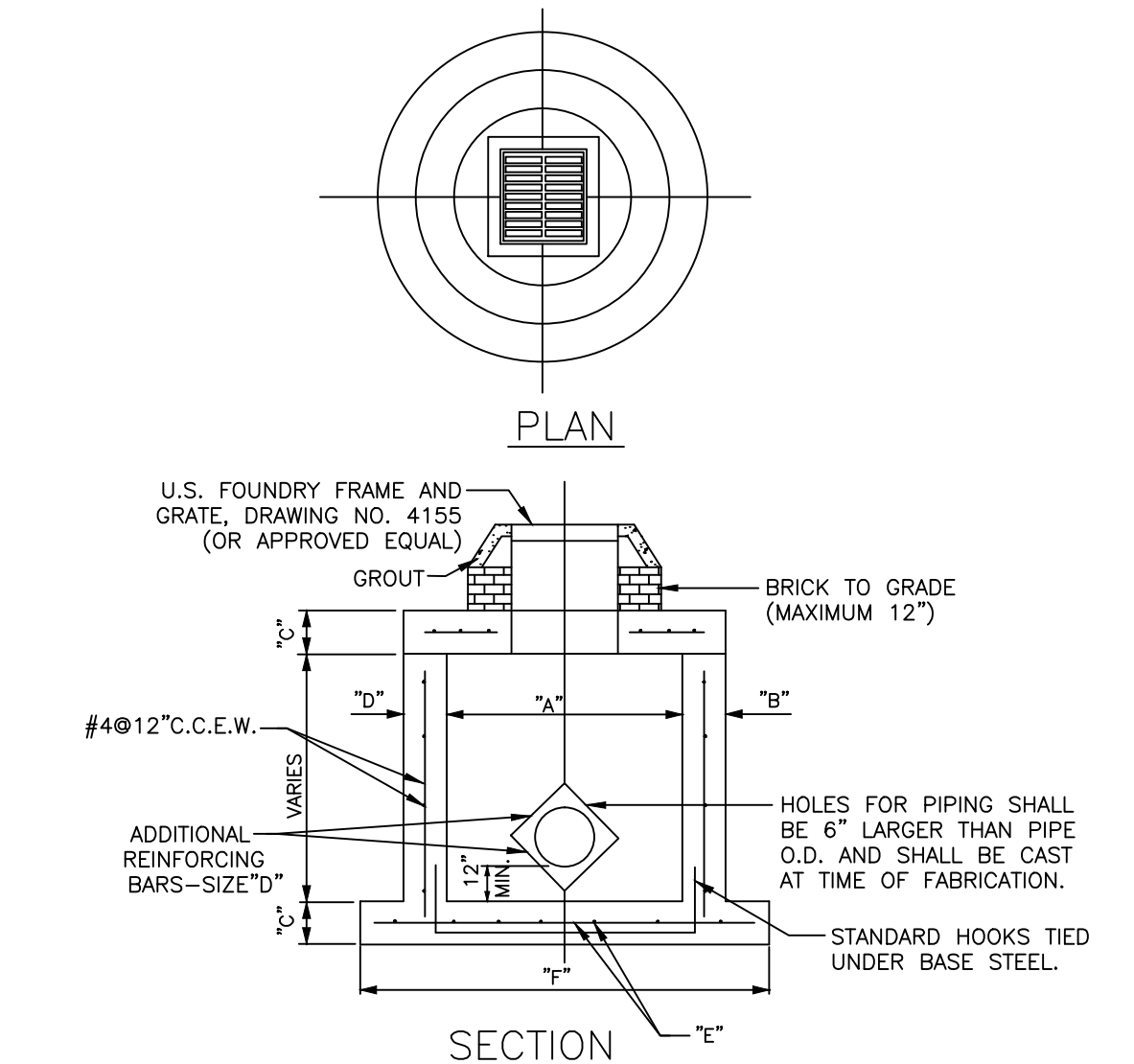
KENNETH R. CARLSON - ARCHITECT, P.A.

1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
e-mail: kenc@kencarlson.com

Revisions:

DRAWN BY: MFG
CHECKED BY: JFD
DATE: 2/16/15
SCALE: AS NOTED
PROJECT #: 15016
CAD DWG FILE:

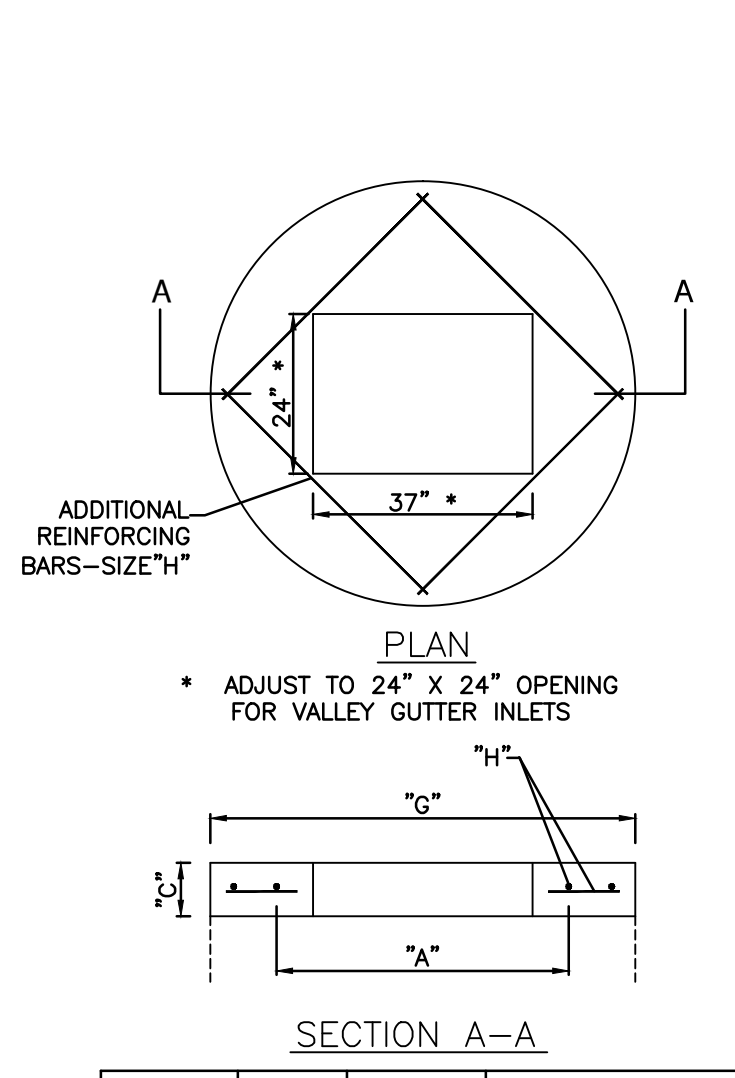
KENNETH R. CARLSON
AR12546



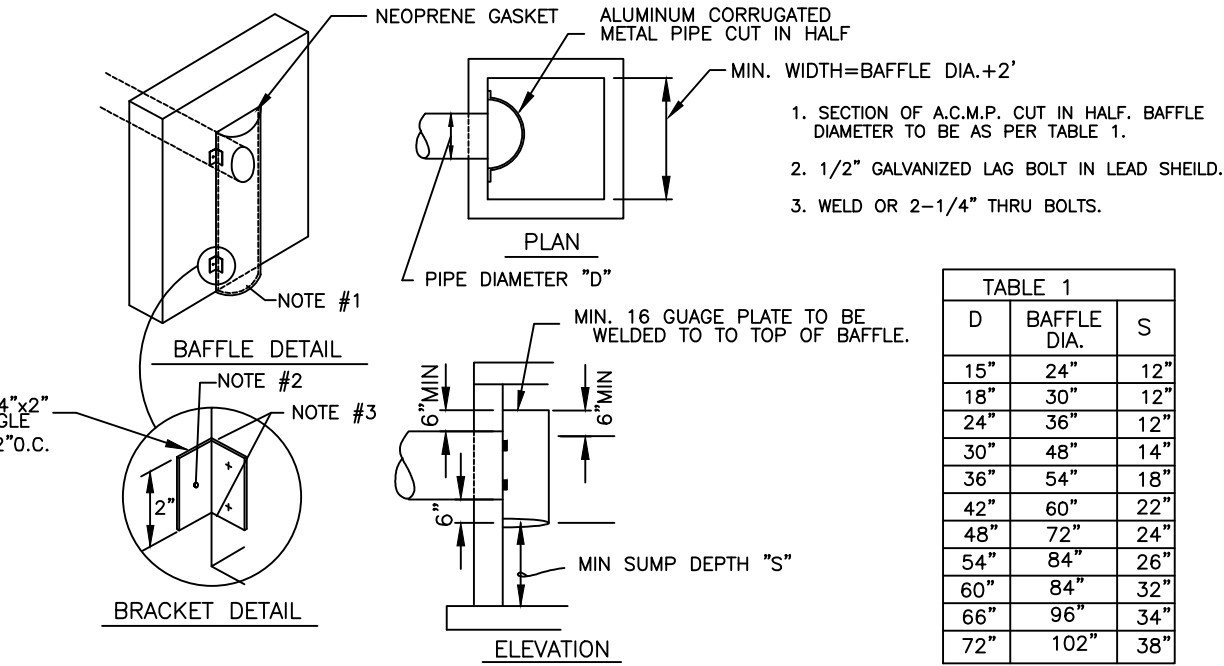
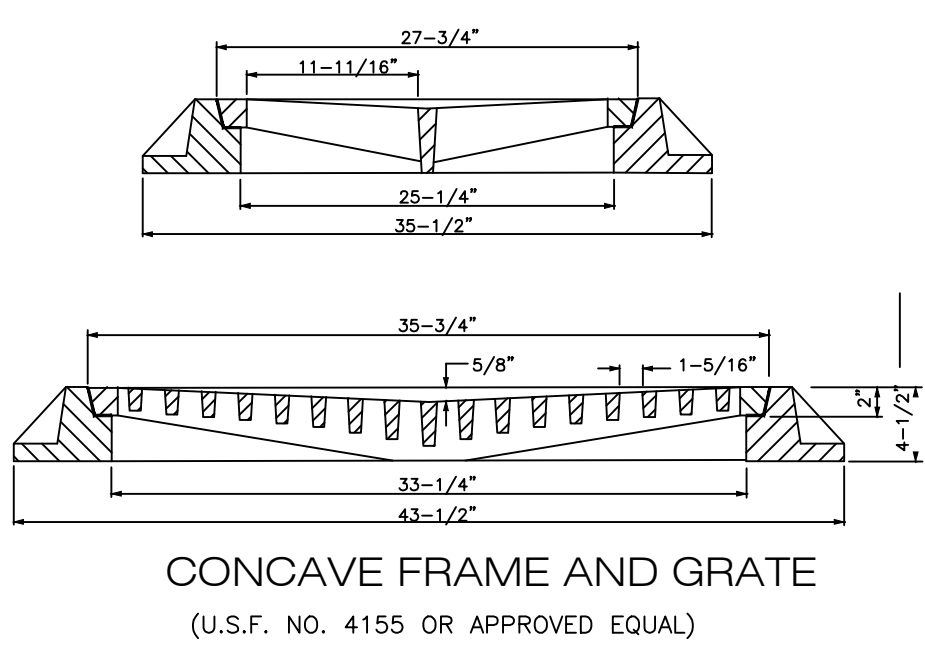
NOTE: SQUARE STRUCTURES MAY BE USED AS AN ALTERNATE EXCEPT FOR CURB INLETS UNLESS STRUCTURE CONTAINS A POLLUTION RETARDANT BAFFLE. SQUARE STRUCTURES MUST BE USED FOR POLLUTION RETARDANT STRUCTURES.

| TYPE | "A" | "B" | "C" | "D" | "E" | "F" |
|------|-------|-----|-----|--------------------------------|------------|----------|
| C-4 | 4'-0" | 8" | 8" | #4@12"CCEW | #4@12"CCEW | 6'-4" Ø |
| C-5 | 5'-0" | 8" | 8" | #5@12"CCEW | #5@12"CCEW | 7'-4" Ø |
| C-6 | 6'-0" | 8" | 8" | #5@12"CCEW | #5@6"CCEW | 8'-4" Ø |
| C-7 | 7'-0" | 8" | 8" | #5@12"CCEW | #5@6"CCEW | 9'-4" Ø |
| C-8 | 8'-0" | 10" | 10" | 2-W.W.M. w/#4 @ 12" C.C. VERT. | #5@6"CCEW | 10'-4" Ø |

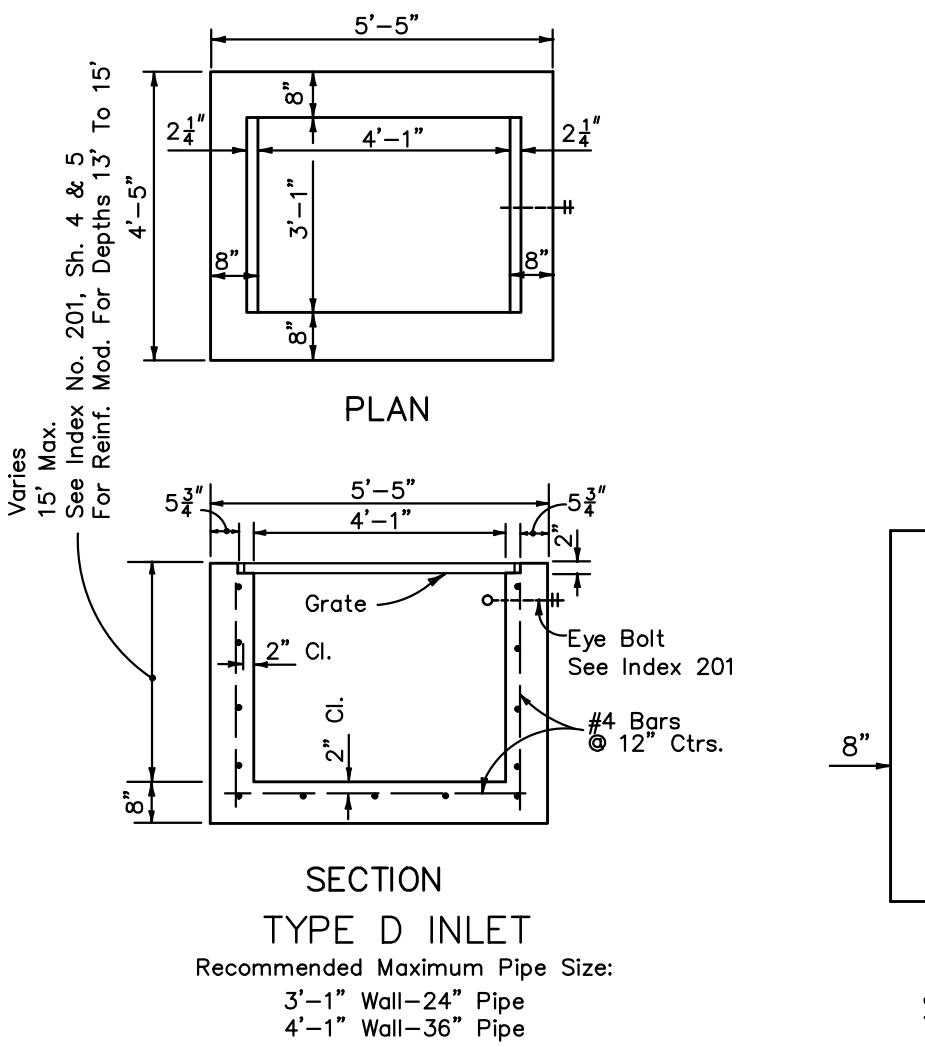
PRECAST CIRCULAR CATCH BASIN
N.T.S.



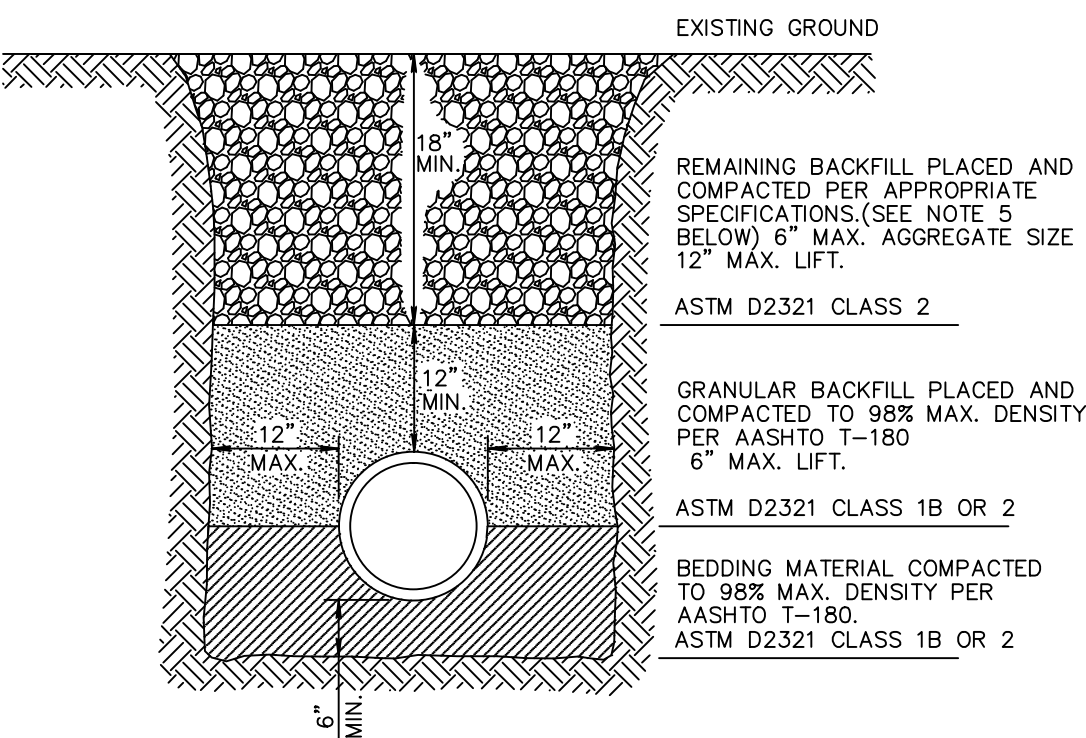
PRECAST CONCRETE - TOP SLAB
FOR CATCH BASIN



POLLUTION RETARDANT BAFFLE



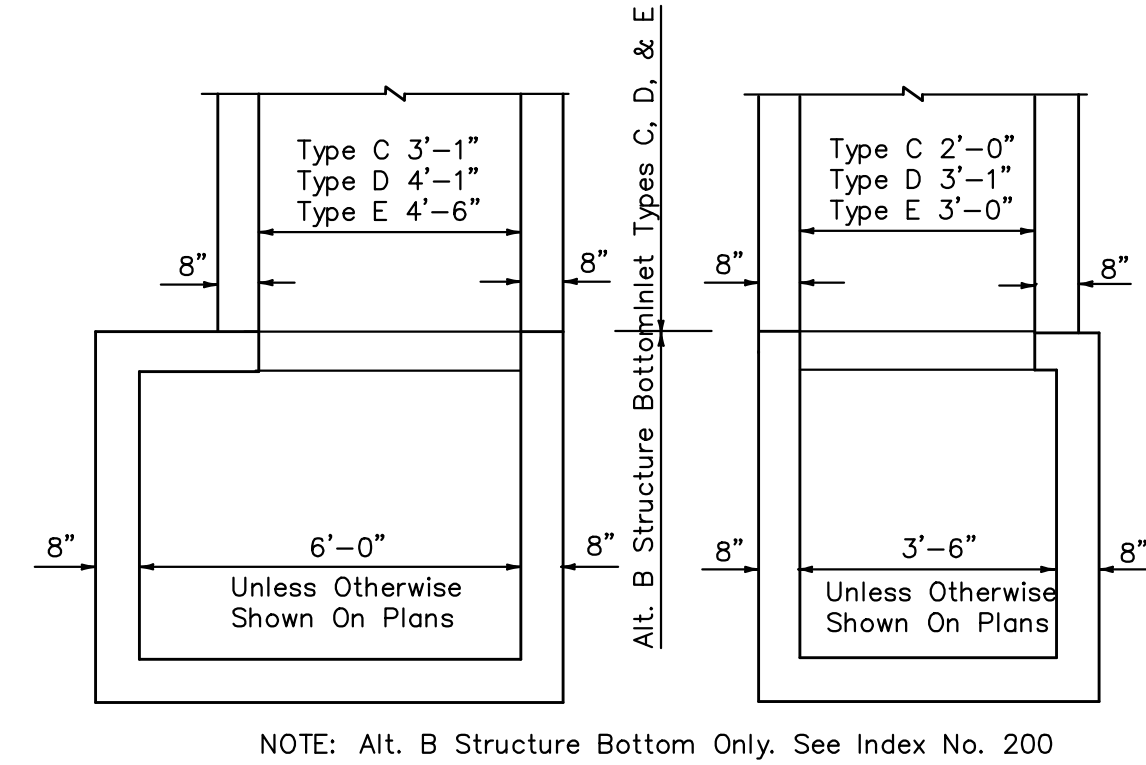
TYPICAL TRENCH
DETAIL



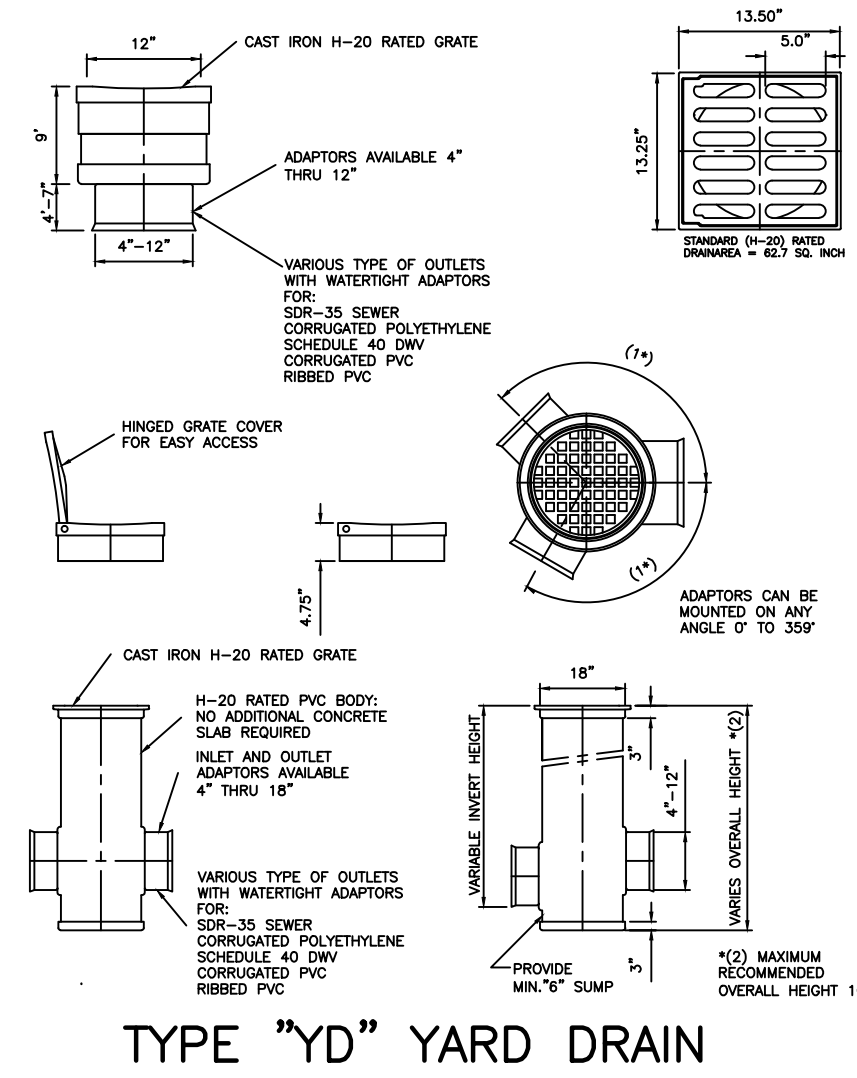
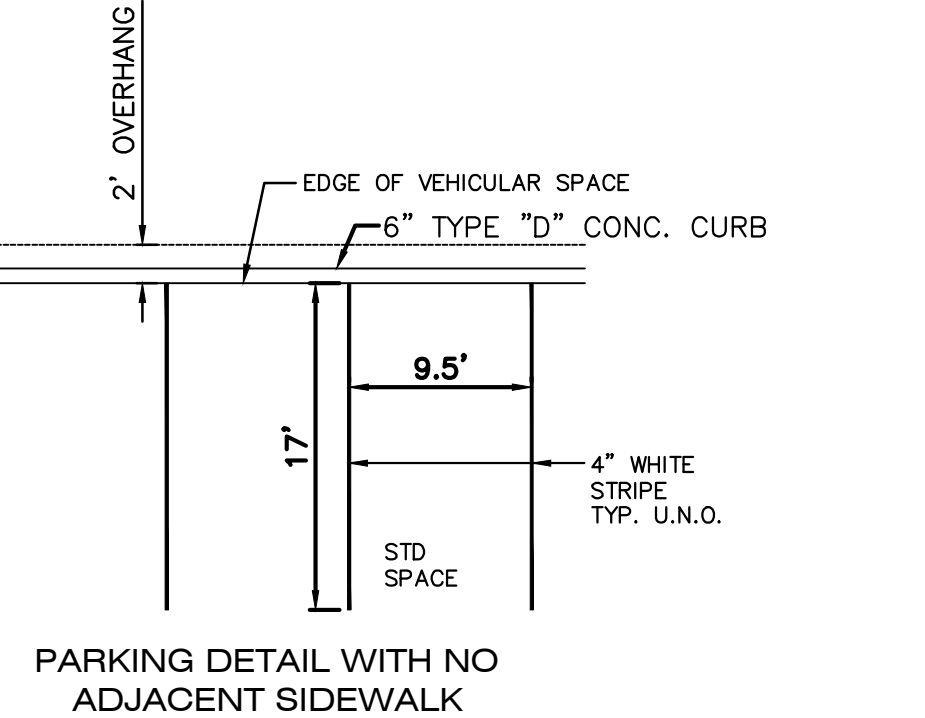
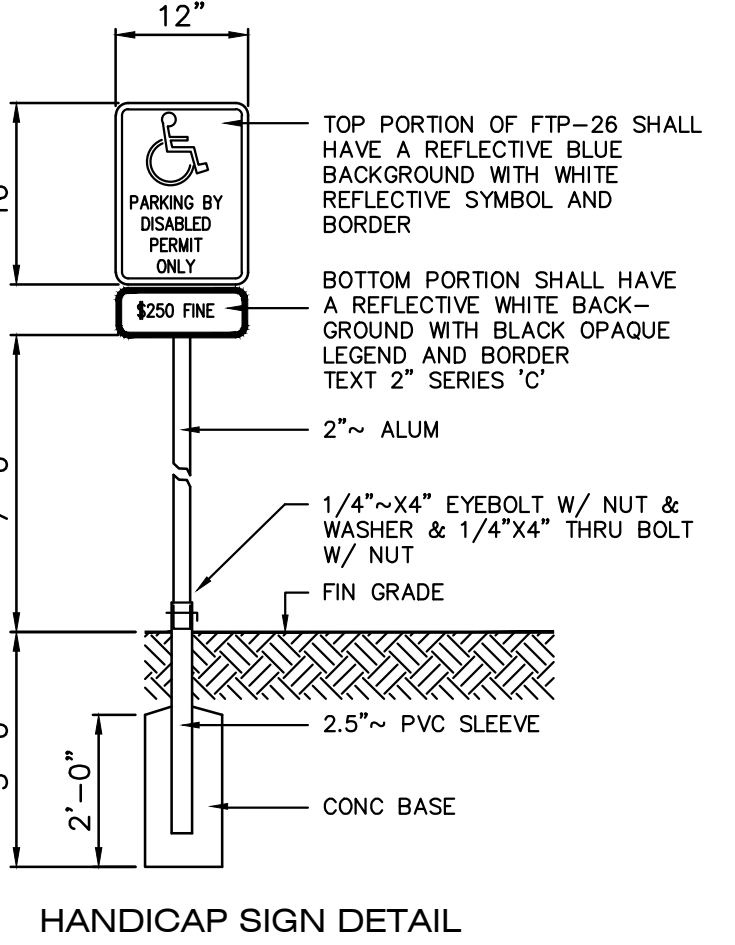
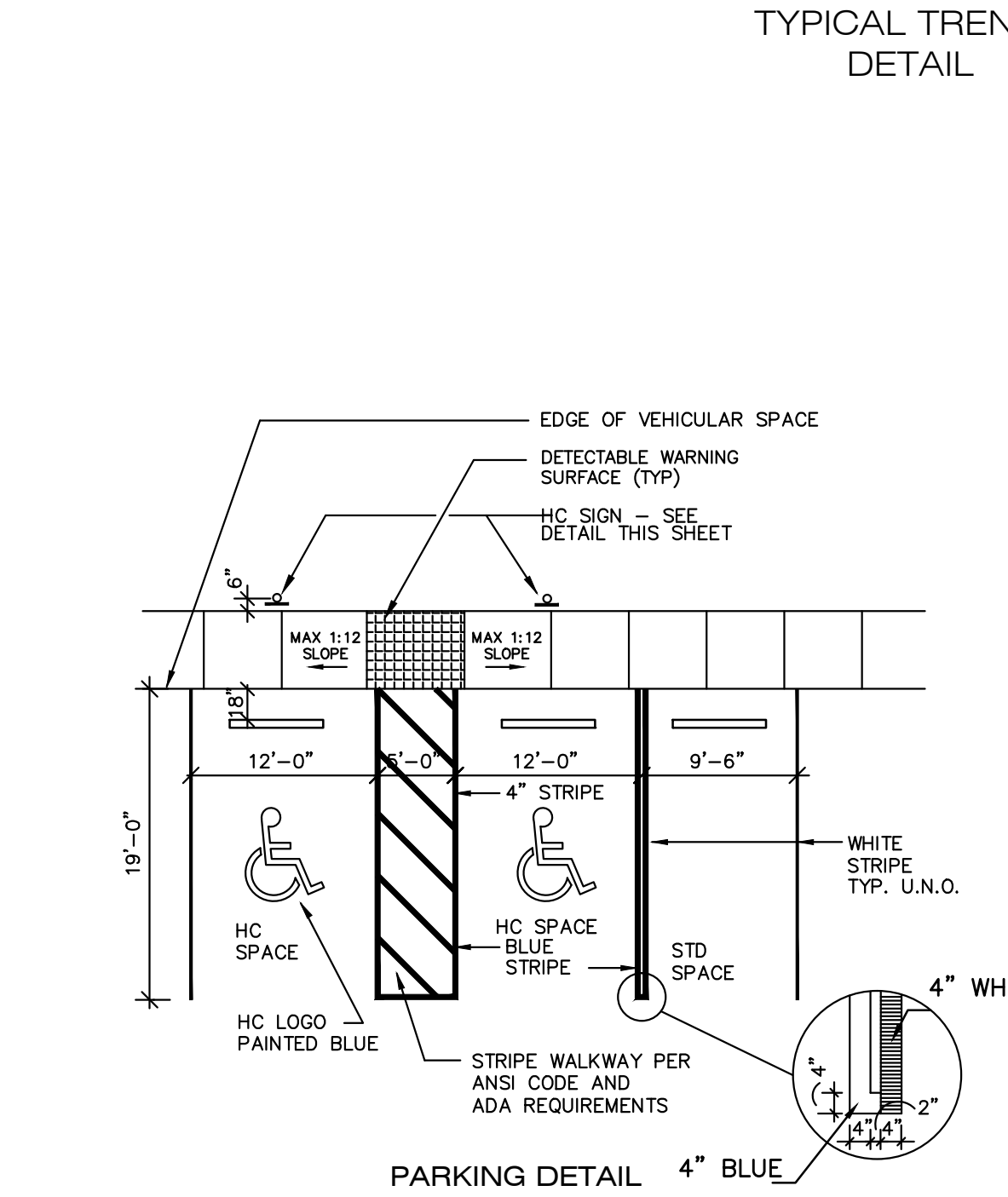
NOTES:

- UNSUITEABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED; BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING.
- THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- THE PIPE SHALL BE PLACED IN A DRY TRENCH.
- BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
- COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE (AASHTO T-180).
- COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS. CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

| D | BAFFLE DIA. | S |
|-----|-------------|-----|
| 15" | 24" | 12" |
| 16" | 30" | 12" |
| 24" | 36" | 12" |
| 30" | 48" | 14" |
| 36" | 54" | 18" |
| 42" | 60" | 22" |
| 48" | 72" | 24" |
| 54" | 84" | 28" |
| 60" | 84" | 32" |
| 66" | 96" | 34" |
| 72" | 102" | 38" |



STRUCTURE BOTTOM FOR INLETS TYPE C, D & E
DITCH BOTTOM INLET



TYPE "YD" YARD DRAIN
18" YARD DRAIN BASIN ADS PRODUCTS CODE 28118AG

ON-SITE PAVING AND DRAINAGE SPECIFICATIONS:

- ALL ORGANIC OR DELETERIOUS MATERIAL SHALL BE REMOVED FROM WITHIN 5 FEET OF ANY EDGE OF PAVEMENT. ANY SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL WHICH SHALL BE PLACED AND IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT FOR THE SITE.
- STABILIZED SUBGRADE SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF 40 AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 311 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. THE MINIMUM PERCENTAGE OF CARBONATES OF CALCIUM AND MAGNESIUM SHALL BE 70%, LIQUID LIMIT 35 PLASTICITY 6, MIN LBR 100 OR ACCEPTABLE FDOT PRODUCT APPROVAL.
- ASPHALTIC CONCRETE TYPE S-3 SHALL CONFORM TO THE REQUIREMENTS OF SECTION 331 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS.
- PRIME COAT AND TACK COAT FOR BASE COURSES SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 300-1 THROUGH 300-7 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD AND TACK COAT AT A RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS A VARIATION RATE IS APPROVED BY THE ENGINEER.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, EXCEPT DRAINAGE STRUCTURES.
- PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATIONS C-478 AND 64T.
- CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A-615 AND A-305, LATEST REVISION. GRADE 60 STEEL SHALL BE USED FOR TOP AND BOTTOM SLABS.
- ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
- ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATER TIGHT.
- ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 WATERPROOF, NON-SHRINKING CEMENT MORTAR.
- REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-76, FOR CLASS III WALL THICKNESS. REINFORCED CONCRETE PIPE, AND AS MODIFIED IN SECTION 941 OF FLORIDA D.O.T. STANDARD SPECIFICATION.
- CORRUGATED METAL PIPE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 945 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS.
- PVC DRAINAGE PIPE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 945 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS.
- HOPE PIPE SHALL BE ADS N-12 OR APPROVED EQUAL.
- ALL LABOR, MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY CITY OF COCONUT CREEK PUBLIC WORKS. THE PLANS AND CONSTRUCTION SPECIFICATIONS, WHERE CONFLICTS OR OMISSIONS EXIST, THE CITY OF COCONUT CREEK PUBLIC WORKS STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- THE EXISTING ELEVATIONS SHOWN ON THE GRADING PLAN INDICATES THE ELEVATION AT THE POINT DEPICTED ONLY, AND SHOULD NOT BE INTERPRETED AS INDICATING THE ELEVATIONS OF ANY OTHER POINT. THESE EXISTING ELEVATIONS ARE IN NO WAY AN INDICATOR OF SURFACE OR SUBSURFACE SOIL CONDITIONS.
- BITUMINOUS COATING REQUIRED FOR ALL CORRUGATED METAL PIPE (CMP).

PAVEMENT MARKING AND SIGNAGE SPECIFICATIONS:

- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH BROWARD COUNTY PUBLIC WORKS TRAFFIC ENGINEERING STANDARDS.
- ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED DESIGN SHALL BE REMOVED. METHOD OF REMOVAL TO BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK IN THIS AREA.
- PROVIDE FOR TWO (2) BLUE REFLECTIVE PAVEMENT MARKERS IN THE CENTER OF THE DRIVE LANE ADJACENT TO EACH FIRE HYDRANT.
- PROVIDE FOR ONE (1) WHITE REFLECTIVE PAVEMENT MARKER IN THE CENTER OF THE DRIVE LANE ADJACENT TO EACH GATE VALVE.
- ALL PAVEMENT MARKING AND SIGNING DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARD (CURRENT EDITION)
- PAVEMENT MARKINGS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND BROWARD COUNTY STANDARDS.

ON-SITE GRADING SPECIFICATIONS

- SITE GRADING TO INCLUDE ROUGH GRADING, PAD GRADING, FINE GRADING AND FINAL LANDSCAPE AREA GRADING.

EROSION CONTROL

- STABILIZATION PRACTICES

LAKE BANKS AND FILL STOCKPILES WHERE ADJACENT CONSTRUCTION ACTIVITY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2000, SECTION 570. SEED AND MULCH SHALL BE APPLIED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THE AREA.

- PERMANENT STABILIZATION

ALL LANDSCAPING, INCLUDING SODDING, SHALL BE INSTALLED ON THE PERIMETER LANDSCAPE BERMS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THE LANDSCAPE BUFFER AREAS.

- STRUCTURAL PRACTICES

TEMPORARY SVALES SHALL BE CONSTRUCTED AT THE TOP OF BANK OF THE LAKE AND AT THE SITE PERIMETER TO PREVENT DIRECT RUNOFF FROM THE SITE. A SILTATION FENCE SHALL BE INSTALLED ALONG ALL PROPERTY LINES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. A WINDSCREEN SHALL BE INSTALLED ALONG ALL PROPERTY LINES AS DEEMED NECESSARY BY THE OWNER DURING THE CONSTRUCTION PROCESS TO REDUCE WINDBLOWN EROSION.

- OFF-SITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF MINIMUM 4" COMPACTED LIMEROCK BASE WILL BE CONSTRUCTED AS SOON AS CONSTRUCTION STARTS TO REDUCE THE AMOUNT OF VEHICLE TRACKING FROM THE SITE. THE PAVED STREET ADJACENT TO THE CONSTRUCTION ENTRANCE WILL BE SWEEPED ON A REGULAR BASIS TO REMOVE ANY ACCUMULATION OF DIRT OR ROCKS WHICH HAVE BEEN TRACKED FROM THE SITE. ALL DUMP TRUCKS BRINGING MATERIAL TO, OR LEAVING THE SITE WILL BE COVERED WITH A TARPULIN.

- EROSION AND SEDIMENT CONTROL, INSPECTION AND MAINTENANCE PRACTICES

- ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE WEEKLY AND FOLLOWING ANY STORM EVENT GREATER THAN 1/2".
- REPAIRS WILL BE COMPLETED WITHIN 24 HOURS.
- THE LAKE BANK AND PERIMETER SVALES WILL BE INSPECTED REGULARLY AND REGRADED AS NECESSARY TO REMOVE THE BUILT UP SEDIMENT.
- TEMPORARY SEED AND MULCH AREAS AND PERMANENT SOD AREAS WILL BE INSPECTED REGULARLY FOR BARE SPOTS AND TO ENSURE ADEQUATE GROWTH.
- TURBIDITY SCREENS AND WINDSCREENS SHALL BE INSPECTED REGULARLY, AND REPAIRED AS NECESSARY.

SDA **SHAH DROTOS**
& ASSOCIATES

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. NO. 35505

CE5

KENNETH R. CARLSON - ARCHITECT, P.A.

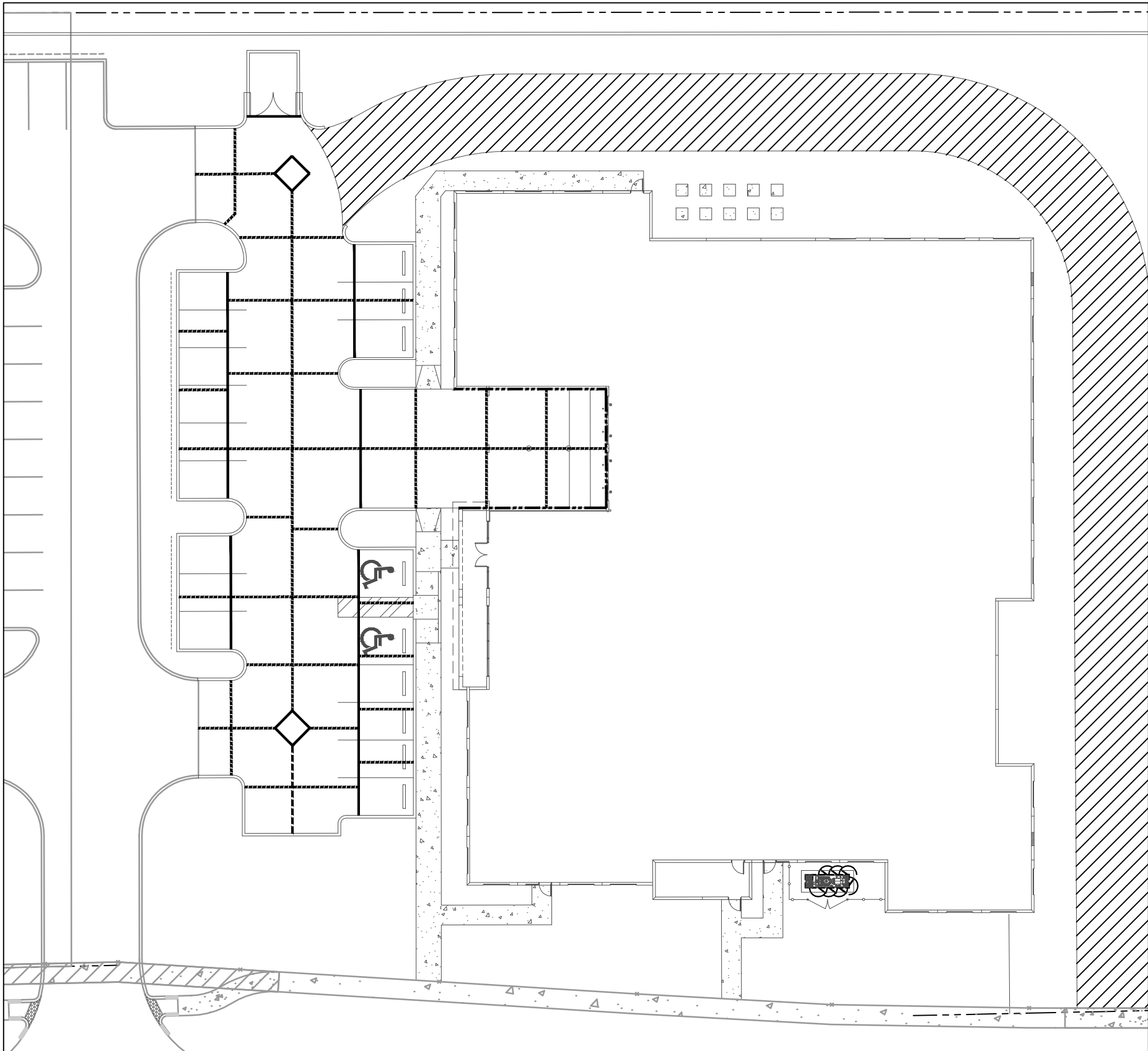
1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
e-mail: kencarlson.com

Revisions:
1. _____
2. _____
3. _____
4. _____
5. _____

DRAWN BY: MFG
CHECKED BY: JFD
DATE: 2/16/15
SCALE: AS NOTED
PROJECT #: 15016
CAD DWG FILE: _____

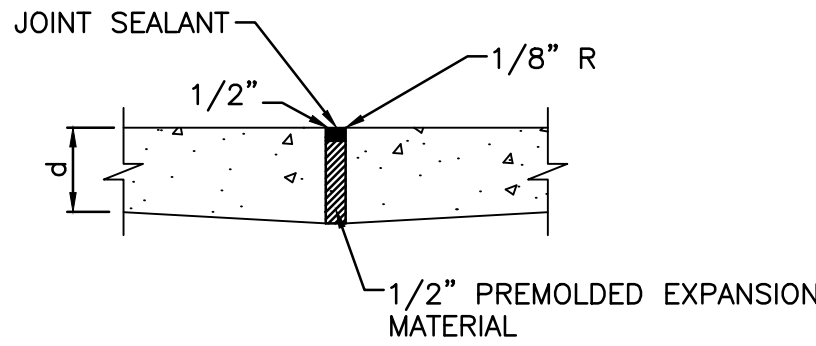
AR12546

KENNETH R. CARLSON

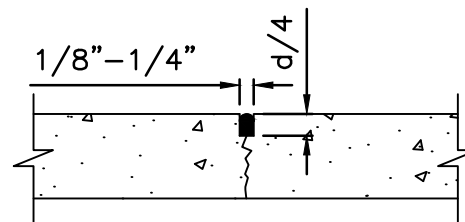


SCALE: 1"=30'

- LEGEND**
- EXPANSION JOINT
 - CONSTRUCTION JOINT
 - CONTROL JOINT

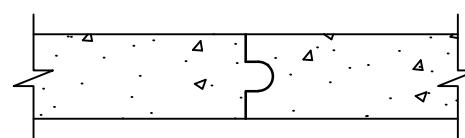


EXPANSION JOINT



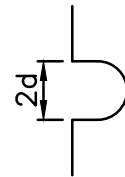
TRANSVERSE CONTRACTION OR
LONGITUDINAL SAWCUT JOINT. FILL
WITH JOINT SEALANT

CONTROL JOINT



LONGITUDINAL KEYWAY
CONSTRUCTION JOINT FOR
PAVEMENT 6 INCHES OR GREATER.
STRAIGHT BUTT TYPE JOINT USED
FOR 5 INCH PAVEMENTS OR LESS

CONSTRUCTION JOINT



KENNETH R. CARLSON - ARCHITECT, P.A.
1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
FAX (954) 427 - 9929
e-mail: kenc@kencarlson.com

DOMINION STORAGE
BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA

Revisions:

| | |
|---|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

| | |
|---------------|----------|
| DRAWN BY: | MFG |
| CHECKED BY: | JFD |
| DATE: | 2/16/15 |
| SCALE: | AS NOTED |
| PROJECT # | 15016 |
| CAD DWG FILE: | |

KENNETH R. CARLSON
AR12546

SDA **SHAH DROTOS**
& ASSOCIATES

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL. 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS, P.E.
FLA. P.E. No. 35505

KENNETH R. CARLSON - ARCHITECT, P.A.

- 1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848 FAX (954) 427 - 9929
e-mail: kenc@kencarlson.com

KENNETH R. CARLS
1002 E. NEWPORT CENTER
DEERFIELD BEACH, FLORIDA 33441
PH. (954) 427 - 8848
e-mail: kenc@kencarlson.com

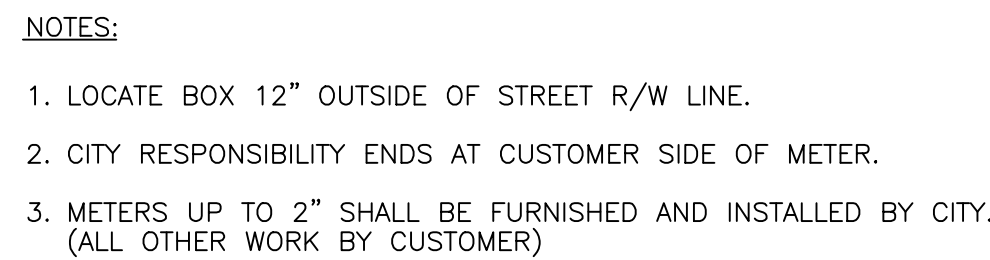


Diagram illustrating the installation of a vertical manhole structure, showing the relationship between various pipe materials, joints, and deflection requirements.

Top Section (Horizontal View):

- FINISH GRADE** is indicated at the top.
- WATER MAIN OR OTHER UTILITY** is shown crossing the manhole structure.
- 6" MIN.** clearance is required between the utility and the manhole structure.
- THE AMOUNT OF DEFLECTION PER PIPE JOINT SHALL NOT EXCEED 75% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.**
- DISTANCE AS REQUIRED** is indicated for the deflection measurement.
- SEWER MAIN, FORCE MAIN, OR REUSE MAIN** is shown entering the manhole structure.
- 10'** and **20'** distances are marked for the sewer/main.
- DUCTILE IRON PIPE OR POLYVINYL CHLORIDE** is the material for the main.
- IRON PIPE** is the material for the manhole structure.
- ONE LENGTH DUCTILE** is the length of the ductile pipe section.

Bottom Section (Vertical View):

- DUCTILE IRON PIPE OR POLYVINYL CHLORIDE** is the material for the main.
- RESTRAINED JOINT (D.I.P.) (MINIMUM 40')** is the length of the restrained joint.
- SEWER MAIN, FORCE MAIN OR REUSE MAIN** is shown entering the manhole structure.
- TRANSITION COUPLING (MISSION OR EQUAL) WHEN SEWER OR FORCE MAIN IS POLYVINYL CHLORIDE (TYPICAL BOTH SIDES)** is used for the connection.
- RESTRAINED JOINTS** are shown at the manhole structure.
- WATER MAIN OR UTILITY** is shown crossing the manhole structure.
- DUCTILE IRON PIPE OR POLYVINYL CHLORIDE** is the material for the main.
- ONE LENGTH** is the length of the pipe section.
- M.J., D.I.P. (MIN. 12')** is the length of the mechanical joint.
- M.J., D.I.P. (MIN. 16')** is the length of the mechanical joint.
- M.J., D.I.P. (MIN. 12')** is the length of the mechanical joint.

Legend:

- M.J. = MECHANICAL JOINT**
- D.I.P. = DUCTILE IRON PIPE**

NOTES:

All water main pipe, including fittings, installed on or after August 28, 2003, except pipe installed under a construction permit for which the Health Department received a complete application before August 28, 2003, shall be color coded or marked using blue as a predominant color to differentiate drinking water for reclaimed or there water. Underground plastic pipe shall be color coded with blue stripes. Aboveground plastic pipe shall be color coded with black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe shall have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact through the life of the pipe. For pipe that is installed after August 28, 2003, the color coding of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe. Aboveground pipe at drinking water treatment plants shall be color coded and labeled in accordance with subsection 62-555.32(10), F.A.C., and all other aboveground pipe shall be painted blue or shall be color coded or marked like underground pipe.

Subsection 62-555.320(10), F.A.C. reads as follows:

Color Coding of piping for Drinking Water Treatment Plants: All new or altered, aboveground piping at drinking water treatment plants shall be color coded and labeled as recommended in Section 2.14 of Recommended Standards for Water Works as incorporated into Rule 62-555.330, F.A.C. In addition, all under ground water main pipe that is installed at drinking water treatment plants on or after August 28, 2003, and that is conveying finished drinking water shall be color coded as required under subparagraph 62-555.320(2)(b)3., F.A.C. This subsection does not apply to drinking water treatment plant piping installed or altered under a construction permit for which the Department received a complete application before August 28, 2003.



The diagram illustrates a cross-section of a water main installation. A horizontal line represents the water main, with a vertical line indicating its depth. A horizontal line above the main represents the street paving. Two service connections are shown: a 'LONG SERVICE' with a '24" MIN. COVER' and a 'SHORT SERVICE' with an '18" MIN. COVER'. The connections are made using 'P.E. TUBING', 'COMPRESSION FITTING', 'CORPORATION STOP', and 'DOUBLE STRAP SERVICE CLAMP'. A 'WATER MAIN' is also labeled. The diagram is credited to 'CITY OF CHICAGO' and 'CHICAGO DEPARTMENT OF PUBLIC WORKS'.

- $$Q = LD \times \text{SQUARE ROOT OF } P/148,000$$

Q = QUANTITY OF MAKEUP WATER (IN GALLONS PER HOUR)
L = LENGTH OF PIPE SECTION BEING TEST (IN FEET)
D = NOMINAL DIAMETER OF THE PIPE (IN INCHES)
P = AVERAGE TEST PRESSURE, IN POUNDS PER SQUARE INCH.

PIPE SHALL BE TESTED UNDER CONSTANT PRESSURE OF 150 P.S.I. FOR A MINIMUM TEST PERIOD OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER A.N.S.I./A.W.W.A. SPECIFICATIONS OF C-600-05

2. STERILIZATION SHALL BE PERFORMED AFTER THE WATER MAINS HAVE SATISFIED THE LEAKAGE REQUIREMENTS. THE WATER MAINS SHALL BE FLUSHED THROUGH OPENINGS OF THE REQUIRED SIZE AS DETAILED IN A.N.S.I. / A.W.W.A. STANDARD C-651-05. THE MAIN SHALL THEN BE STERILIZED IN ACCORDANCE WITH THE PROVISIONS OF THE APPLICABLE SECTIONS OF THE ABOVE NAMED SPECIFICATIONS, ON MAIN BREAKS, CUT-INS, ETC. A LIBERAL APPLICATION OF CALCIUM HYPOCHLORITE SHALL BE MADE.

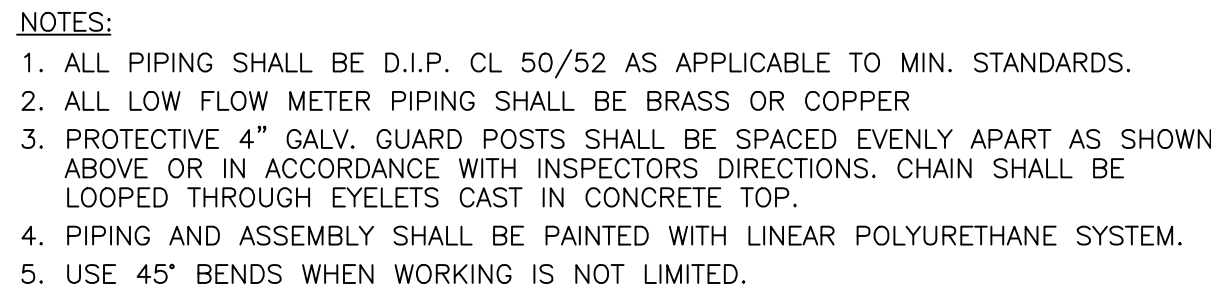
MAINS SHALL NOT BE PUT INTO DOMESTIC SERVICE UNTIL AFTER THE NECESSARY BACTERIOLOGICAL SAMPLES HAVE BEEN APPROVED BY THE APPLICABLE REGULATORY AGENCIES.

ENGINEERING
SURVEYING
PLANNING

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, Fl. 33064
PH: 954-943-9433 • FAX: 954-783-4754

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505



SEE NOTE 1

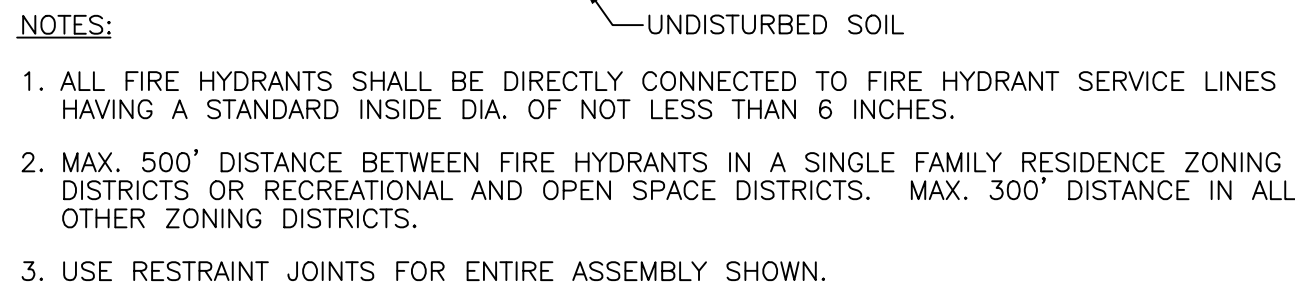
GATE VALVE

90°

45°

3'-0"

FOUR HYDRANT GUARDS, IF REQ'D. BY THE CITY OF MARGATE FIRE DEPT.



NOTES:

1. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN COMPLETED.
3. CLOSE CORPORATION STOPS AND PLUG WITH BRASS FITTINGS AFTER SAMPLING IS COMPLETED.

| MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). * | | | | | | | | | |
|--|-----------|----|-----|-----|-----|-----|-----|-----|-----|
| | PIPE SIZE | | | | | | | | |
| | 6" | 8" | 10" | 12" | 16" | 20" | 24" | 30" | 36" |
| 90° BEND | 20 | 23 | 27 | 31 | 39 | 46 | 53 | 62 | 70 |
| 45° BEND | 20 | 20 | 20 | 20 | 20 | 20 | 22 | 26 | 29 |
| 22-1/2° BEND | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 11-1/4° BEND | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| PLUG OR BRANCH OF TEE | 20 | 20 | 20 | 20 | 37 | 58 | 78 | 105 | 130 |

NOTES:

FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.

INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.

WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.

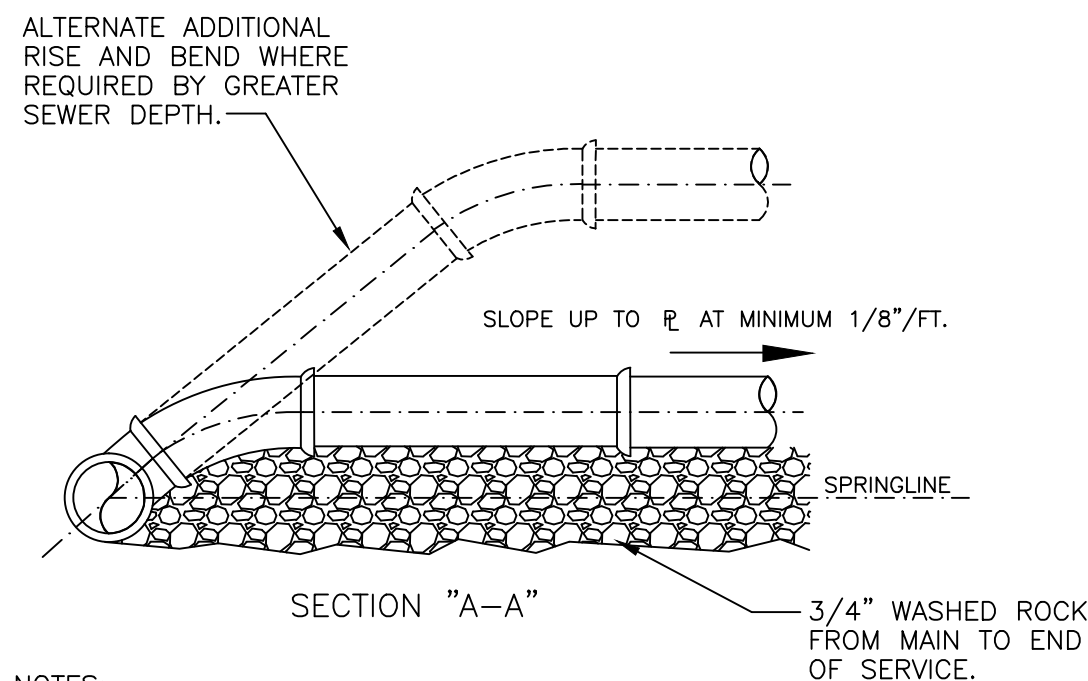
IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.

LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:

6. FOR PIPE ENCASED IN POLYETHYLENE, USE VALUES GIVEN IN PARENTHESES OR INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
7. TO BE COMPLETED BY THE DESIGN ENGINEER.

NOTES:

1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
2. DOUBLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
3. USE RISER CONNECTION WHEN INV. OF SEWER IS MORE THAN 7'-0" DEEP.



NOTES:

1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
2. DOUBLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
3. USE RISER CONNECTION WHEN INV. OF SEWER IS MORE THAN 7'-0" DEEP.

SDA SHAH
DROTOS
— & ASSOCIATES

ENGINEERING
SURVEYING
PLANNING

JAMES DROTOS P.E.
FLA. P.E. No. 35505

KENNETH R. CARLSON - ARCHITECT, P.A.

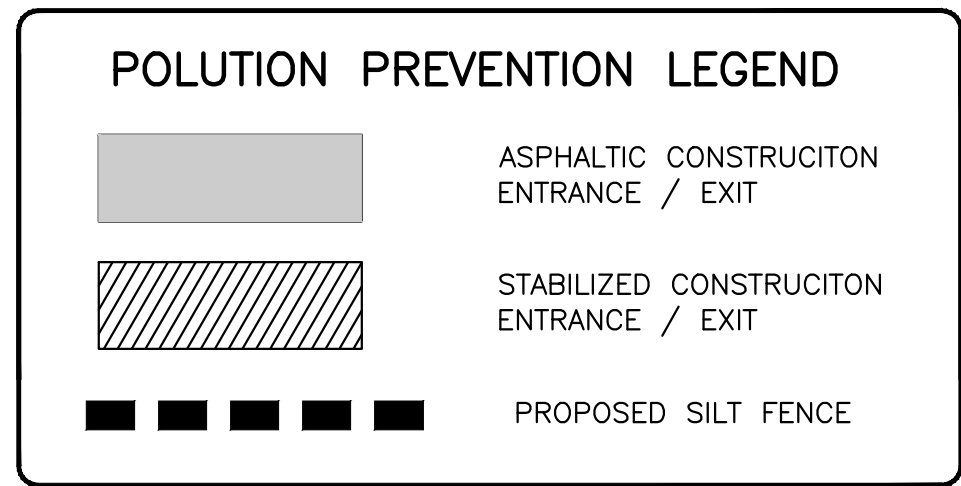
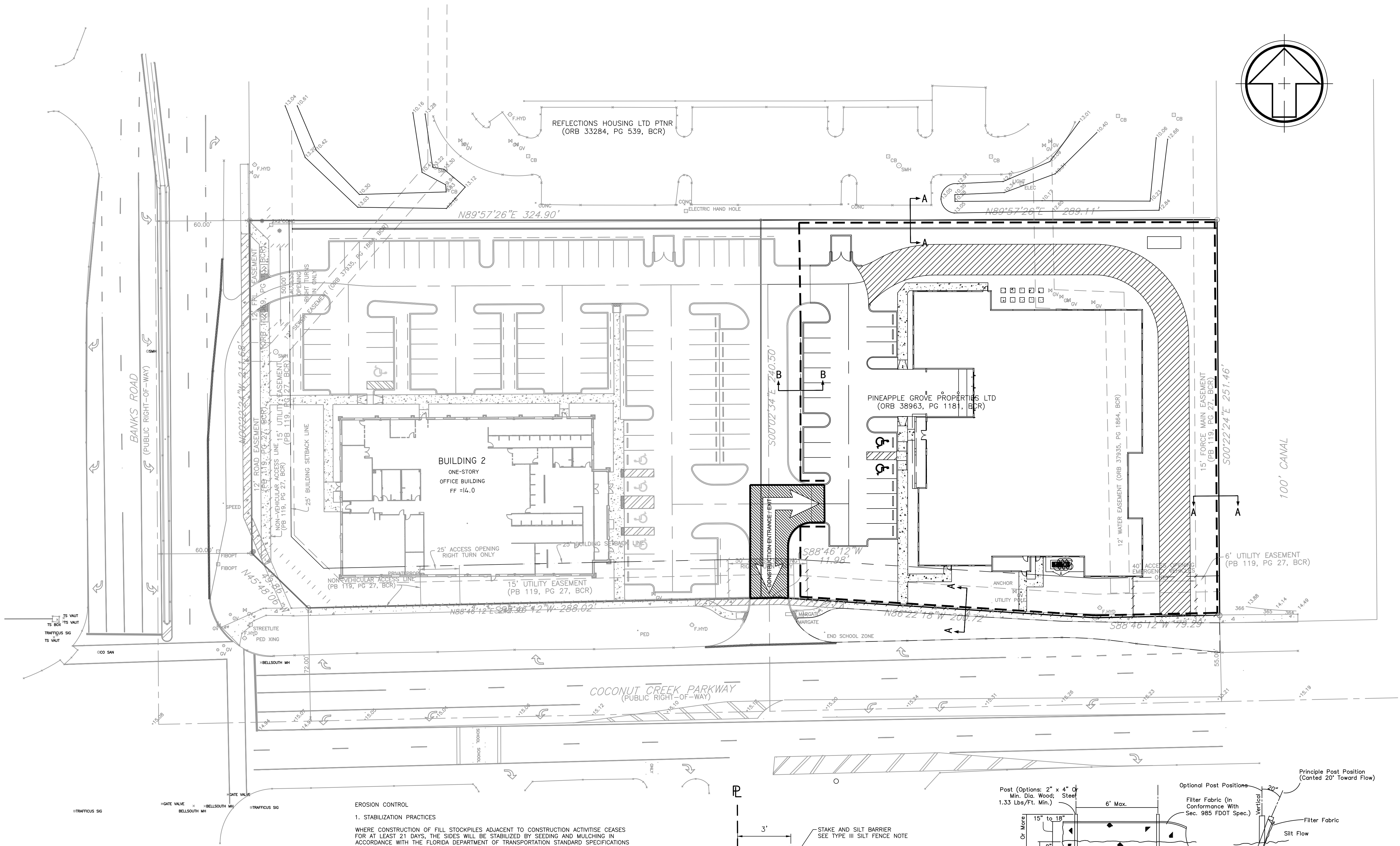
1002 E. NEWPORT CENTER DR. SUITE 101

DEERFIELD BEACH, FLORIDA 33442
AA C001878

PH (954) 427 - 8848
FAX (954) 427 - 9929

e-mail: kenc@kencarlson.com

AR12546



EROSION CONTROL

1. STABILIZATION PRACTICES

WHERE CONSTRUCTION OF FILL STOCKPILES ADJACENT TO CONSTRUCTION ACTIVITIES CEASES FOR AT LEAST 21 DAYS, THE SIDES WILL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 1991, SECTION 570. SEED AND MULCH SHALL BE APPLIED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THE AREA.

2. PERMANENT STABILIZATION

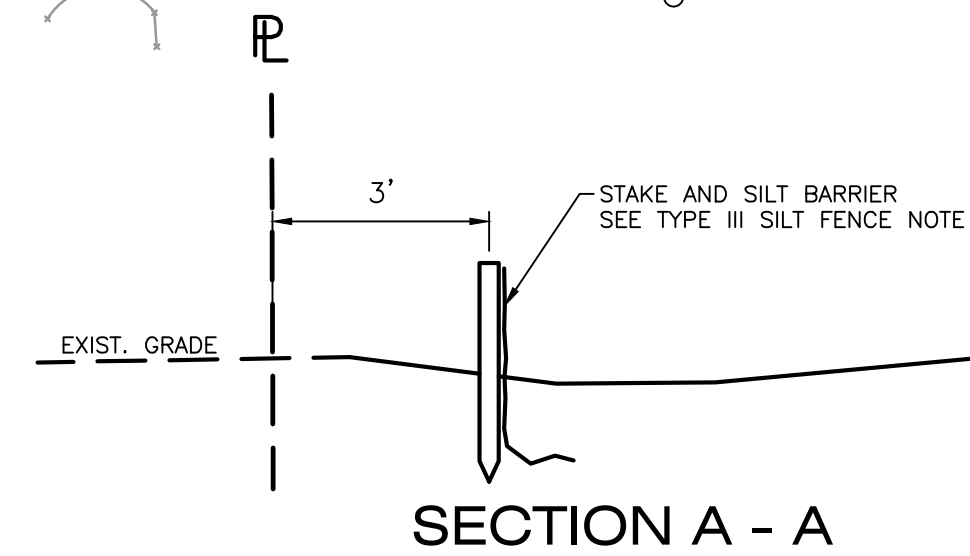
ALL LANDSCAPING, INCLUDING SODDING, SHALL BE INSTALLED ON THE PERIMETER LANDSCAPE BERMS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THE LANDSCAPE BUFFER AREAS.

3. OFF-SITE VEHICLE TRACKING

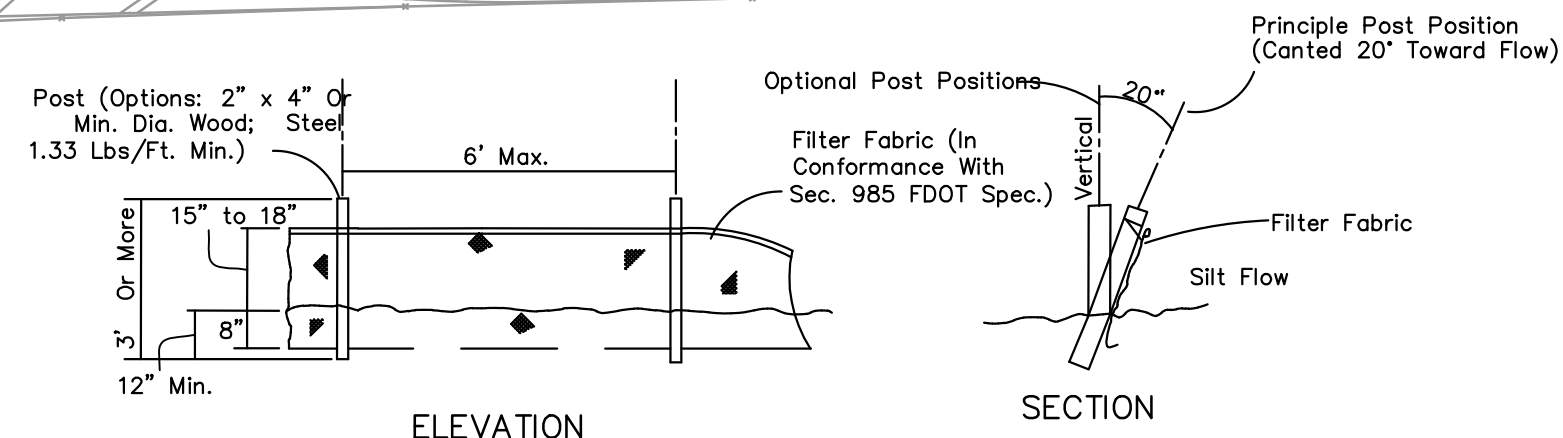
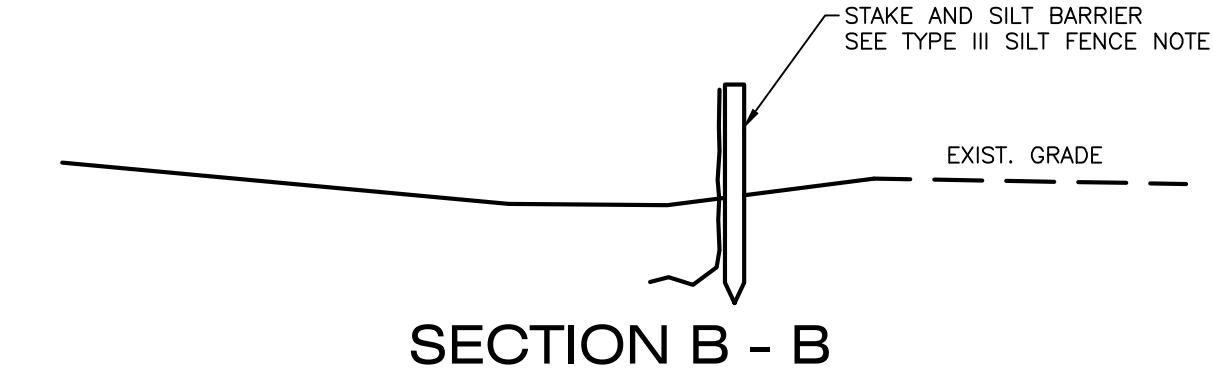
A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF MINIMUM 4" COMPACTED LIMEROCK BASE WILL BE CONSTRUCTED AS SOON AS CONSTRUCTION STARTS TO REDUCE THE AMOUNT OF VEHICLE TRACKING FROM THE SITE. THE PAVED STREET ADJACENT TO THE CONSTRUCTION ENTRANCE WILL BE SWEEPED ON A REGULAR BASIS TO REMOVE ANY ACCUMULATION OF DIRT OR ROCKS WHICH HAVE BEEN TRACKED FROM THE SITE. ALL DUMP TRUCKS BRINGING MATERIAL TO, OR LEAVING THE SITE WILL BE COVERED WITH A TARPULIN.

4. EROSION AND SEDIMENT CONTROL, INSPECTION AND MAINTENANCE PRACTICES

- * ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE WEEKLY AND FOLLOWING ANY STORM EVENT GREATER THAN 1/2".
- * REPAIRS WILL BE COMPLETED WITHIN 24 HOURS.
- * THE PERIMETER SWALES WILL BE INSPECTED REGULARLY AND REGRADED AS NECESSARY TO REMOVE THE BUILT UP SEDIMENT.
- * TEMPORARY SEED AND MULCH AREAS AND PERMANENT SOD AREAS WILL BE INSPECTED REGULARLY FOR BARE SPOTS AND TO ENSURE ADEQUATE GROWTH.
- * TURBIDITY SCREENS SHALL BE INSPECTED REGULARLY AND REPAIRED AS NECESSARY.
- * FILTER FABRIC SHALL BE SECURED IN ALL CATCH BASINS UNTIL COMPLETION OF CONSTRUCTION.



EXISTING MARGATE GSA



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

SDA SHAH DROTOS & ASSOCIATES

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456
3410 N. Andrews Avenue Ext. • Pompano Beach, FL 33064
PH: 954-943-9433 • FAX: 954-783-4754

ENGINEERING
SURVEYING
PLANNING

FOR THE FIRM, BY:

JAMES DROTOS P.E.
FLA. P.E. No. 35505

Revisions:

| | |
|---------------|----------|
| DRAWN BY: | MFG |
| CHECKED BY: | JFD |
| DATE: | 2/16/15 |
| SCALE: | AS NOTED |
| PROJECT #: | 15016 |
| CAD DWG FILE: | |

AR12546

KENNETH R. CARLSON

KENNETH R. CARLSON - ARCHITECT, P.A.

1002 E. NEWPORT CENTER DR. SUITE 101
DEERFIELD BEACH, FLORIDA 33442
PH. (954) 427 - 8848
e-mail: kenc@kencarlson.com

DOMINION STORAGE

BANKS ROAD & COCONUT CREEK PARKWAY
MARGATE, FLORIDA