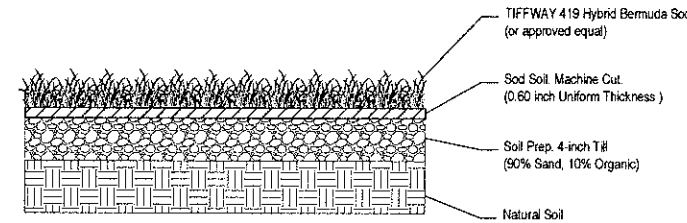
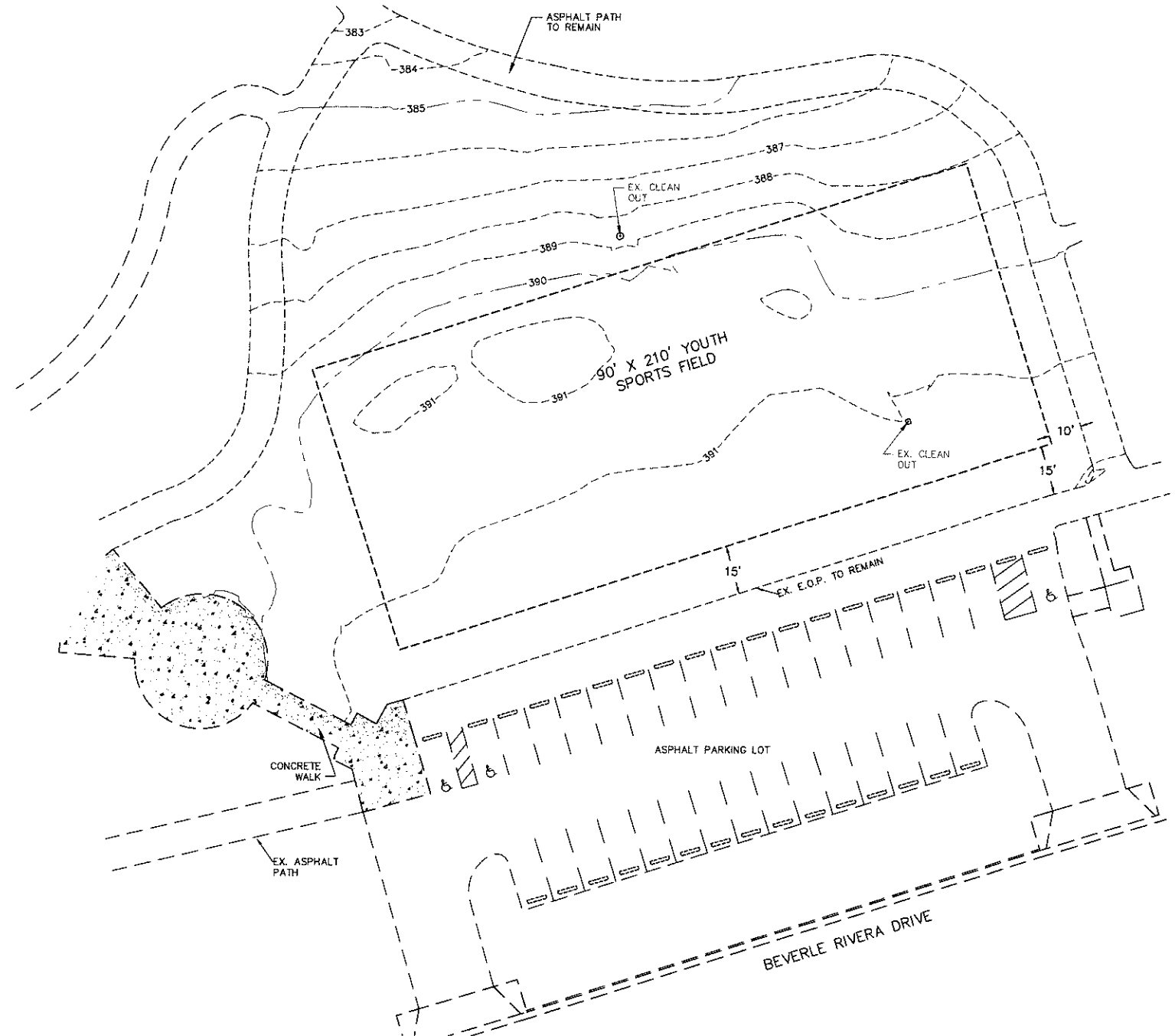


VICINITY MAP



YOUTH SPORTS FIELD
STANDARD INSTALL CROSS SECTION
(not to scale)

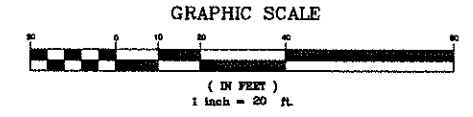
Soil Mix:

- Mix sand and organic matter to create an evenly distributed mixture of 90% sand and 10% organic material. Mix the materials thoroughly in an area separate and apart from the athletic field areas.
- Irrigation main and lateral piping to be installed prior to placement of the athletic field mix. Heads to be set after finished grading with remedial fine grading accomplished thereafter.
- Inspect the fields to determine that the grades are within tolerances. Perform remedial grading if necessary to bring fields within specified tolerances. Eradicate and remove vegetative cover just prior to beginning placement of the athletic field mix.
- Spread athletic field mixture in a uniform two (2) inch layer over the field(s). Thoroughly till the mixture into the soil to a depth of six (6) inches.
- Stabilize the field(s) by rolling with mechanical rollers. Lightly water the field(s) to identify areas of settlement. Repeat this two-step operation as necessary to stabilize and compact the field(s).

Sod Material:

- This turfgrass sod shall be composed of Tiffway 419 Hybrid Bermudagrass, (or approved equal)
- Bermudagrass shall be classified as certified stock or shall originate from certified stock.
- Thickness of Cut: Bermudagrass shall be machine cut at a uniform soil thickness of 0.60 inch (15 mm), plus or minus 0.25 inch (6 mm), at the time of cutting, unless otherwise agreed upon. Measurement for thickness shall exclude top growth and thatch.
- Pad Size: Individual pieces of Bermudagrass shall be cut to the supplier's standard width and length. Maximum allowable deviation from standard widths and lengths shall be plus or minus 0.5 inch (15 mm) on width and plus or minus five percent on length. Broken pads and torn or uneven ends will not be acceptable.
- Strength of Turf Sod Sections: Standard size sections of turfgrass sod shall be strong enough that it can be picked up and handled without damage.
- Moisture Content: Bermudagrass shall not be harvested or transplanted when its moisture content (excessively dry or wet) may adversely affect its survival.
- Mowing Height: Before harvesting, Bermudagrass shall be mowed uniformly at the following height: 1" - 1.5" inch.
- Time Limitations: Bermudagrass shall be harvested and delivered within a period of 24 hours. Bermudagrass shall be installed/transplanted as soon as possible after delivery, unless a suitable preservation method is approved prior to delivery. Bermudagrass not transplanted shortly after delivery shall be inspected and approved by the inspecting officer or his representative prior to its installation.
- Diseases, Nematodes and Insects: Bermudagrass shall be reasonably free of diseases, nematodes and soil-borne insects. Specific nursery and/or plant materials laws may require that all sod entering inter-state commerce be inspected and approved for sale. The inspections and approval must be made by the appropriate government representative of the agriculture department or office of entomologist.
- Weeds: Field Grown Bermudagrass shall be 100% free of all noxious weeds. Field Grown Bermudagrass shall be considered free of grassy and broad leaf weeds if, on average, less than 1 such plant is found per 100 square feet (10 sq. m.) of area. For a complete list of noxious weeds, please go to the following website at - <http://plants.usda.gov/ava/noxiousDriver#composite>

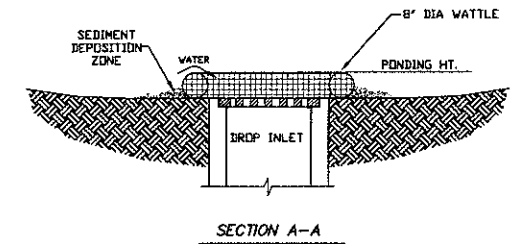
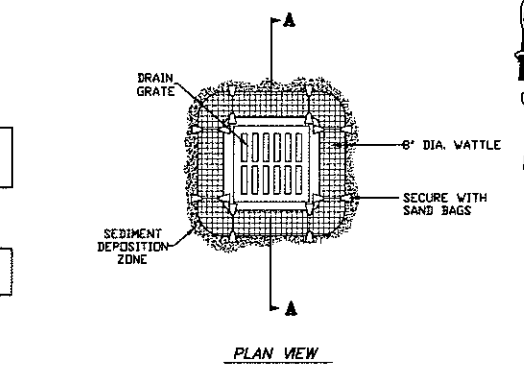
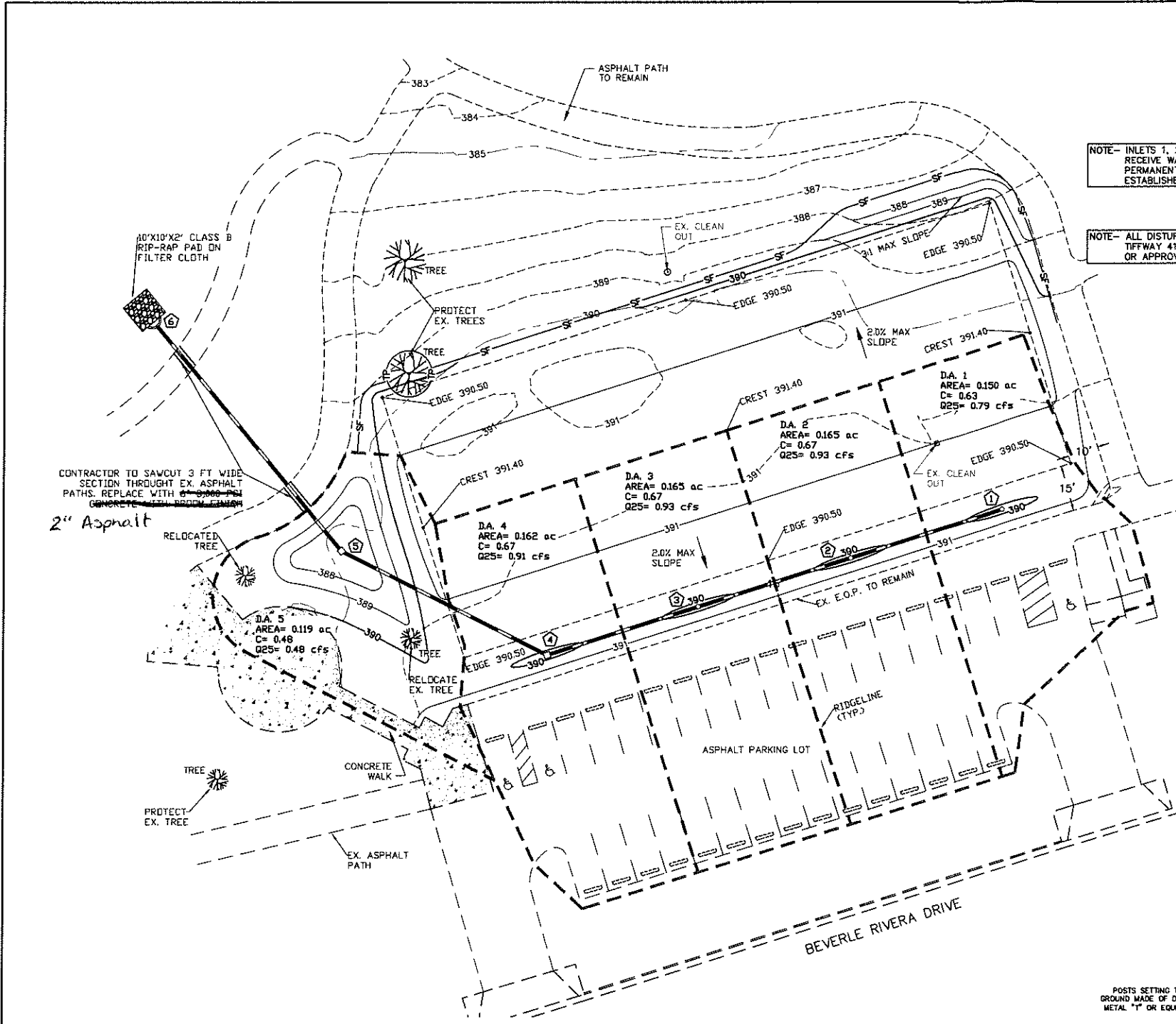
T.B.M. #3
N=346,699.79
E=853,411.91
ELEV.=390.46



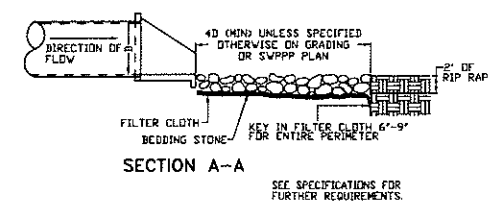
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	ITEM NO.	DESCRIPTION OF CHANGE	



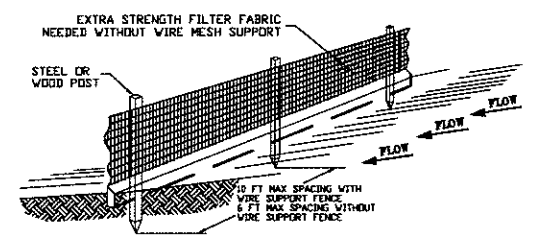
VICINITY MAP



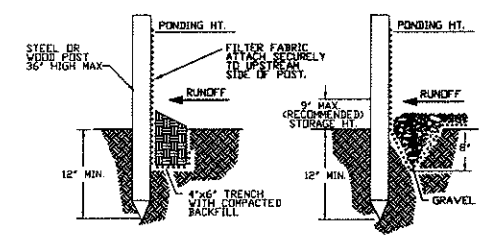
WATTLE PROTECTION for DROP INLET SEDIMENT N.T.S.



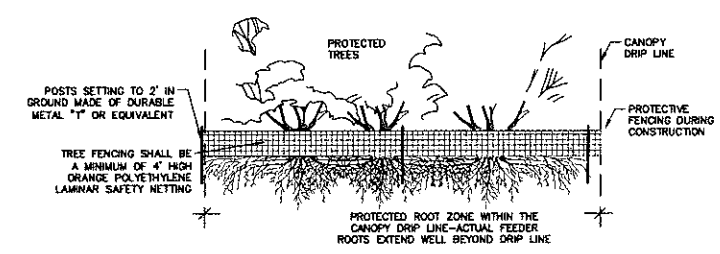
RIP-RAP PAD N.T.S.



SILT FENCE N.T.S.



T.B.M. #3
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E=853,411.91
ELEV.=380.46



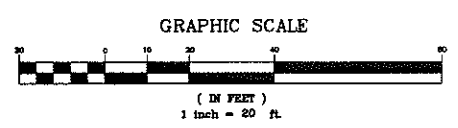
TREE PROTECTION FENCING N.T.S.

WINDWARD SLOPES PARK - STORM DRAINAGE - STRUCTURE TABLE										ASBUILT			
NO	TYPE	DA (AC)	Q25 (CFS)	TG/REM ELEV	FL IN	FL IN	FL IN	FL OUT	INV. ELEV	INV. ELEV	SLOPE (%)	CAPACITY Q (CFS)	REM. ELEV.
*1	10" INLINE DRAIN	0.150	0.79	389.67				386.67					
*2	10" INLINE DRAIN	0.165	0.93	389.67	386.16			386.16					
*3	10" INLINE DRAIN	0.165	0.93	389.67	385.65			385.65					
*4	12" DRAIN BASIN	0.162	0.91	389.67	388.14			385.14					
*5	12" DRAIN BASIN	0.119	0.48	387.50	384.03			384.03					
*6	TYPE "E" HEADWALL	N/A	N/A	N/A	380.50			380.50					

*ALL STORM DRAIN INLETS AND PIPING TO BE ADS NYLOPLAST

WINDWARD SLOPES PARK - STORM DRAINAGE - PIPE TABLE										ASBUILT											
FROM	INV. ELEV	TO	INV. ELEV	PIPE DIA (IN)	LEN (FT)	MATERIAL	SLOPE (%)	DESIGN D.A. (AC)	DESIGN Q25 (CFS)	CAPACITY Q2 (CFS)	VEL (FPS)	VELOCITY FULL (FPS)	FROM	INV. ELEV	TO	INV. ELEV	PIPE DIA (IN)	LENGTH (FT.)	SLOPE (%)	CAPACITY Q (CFS)	
*1	386.67	2	386.16	12	51.0	ADS	1.00	0.15	0.79	3.56	3.63	4.94									
*2	386.16	3	385.65	12	51.0	ADS	1.00	0.32	1.72	3.56	4.49	4.94									
*3	385.65	4	385.14	12	51.0	ADS	1.00	0.48	2.65	3.56	4.95	4.94									
*4	385.14	5	384.03	12	74.0	ADS	1.50	0.64	3.56	4.38	6.19	5.96									
*5	384.03	6	380.50	12	95.0	ADS	3.72	0.76	4.04	6.87	9.69	6.74									

*ALL STORM DRAIN INLETS AND PIPING TO BE ADS NYLOPLAST

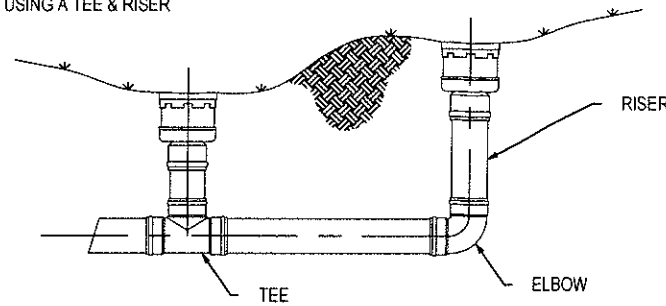


	REVISIONS		WINWARD SLOPES PARK BALL FIELD RENAISSANCE GROUP, INC. 9700 VILLAGE CIRCLE, SUITE 100 LAKELAND, TN 38002 (901) 332-5533 VOICE (901) 332-5534 FAX EMAIL: GRG@RGP.BIZ	DEPARTMENT OF ENGINEERING GRADING PLAN LAKELAND, TENNESSEE FROM: NA TO: NA SURVEY: _____ M.L.S. DATE: 05/17 BOOK: DC SCALE: 1"=20' DESIGN: JNW DATE: 5/17 CHK: JNW DATE: 5/17 REVIEWED BY: _____ TOWN ENGINEER: _____ DATE: _____
	ITEM NO.	DESCRIPTION OF CHANGE		APPROVAL DATE

WHEN ARE INLINE DRAINS USED?

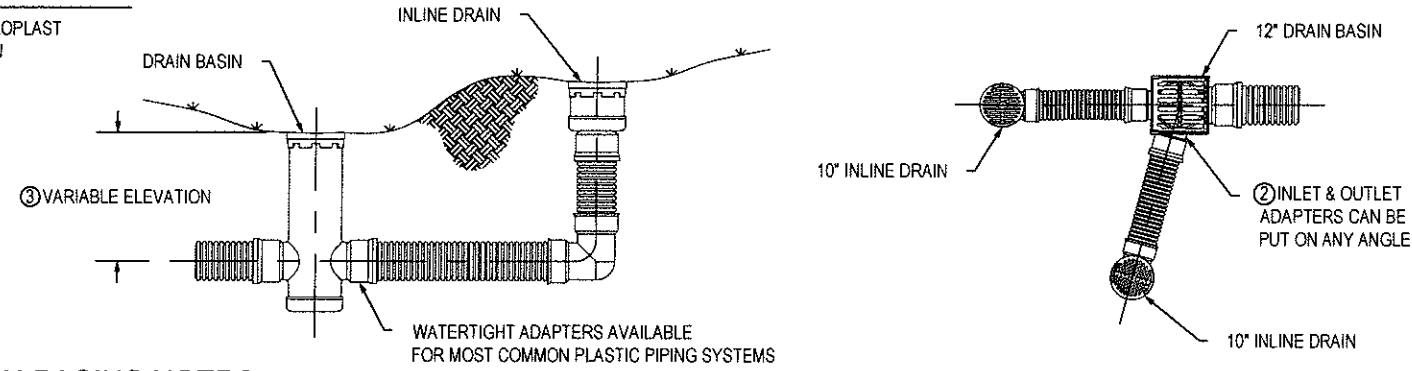
- 2708AG __ X
- 2710AG __ X
- 2712AG __ X
- 2715AG __ X
- 2718AG __ X
- 2724AG __ X
- 2730AG __ X

- 1: TO ENTER AN EXISTING LINE USING A TEE & RISER
- 2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER



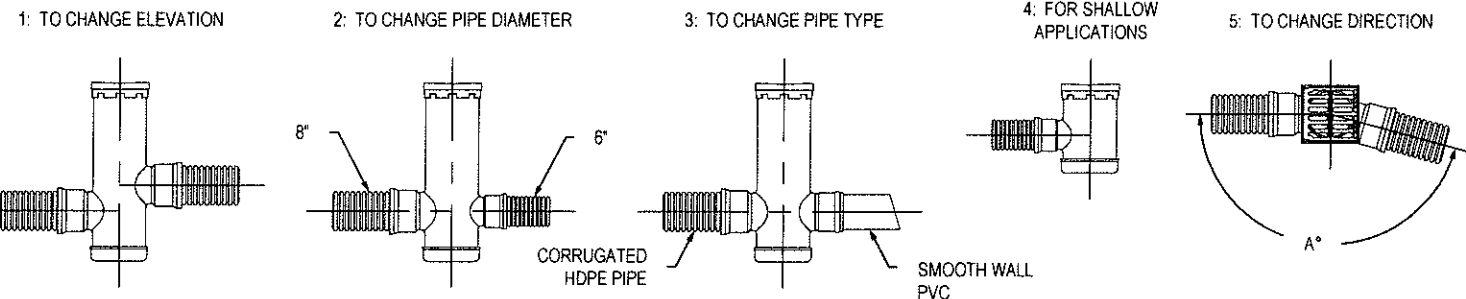
TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN



WHEN ARE DRAIN BASINS USED?

- 2808AG __ X
- 2810AG __ X
- 2812AG __ X
- 2815AG __ X
- 2818AG __ X
- 2824AG __ X
- 2830AG __ X



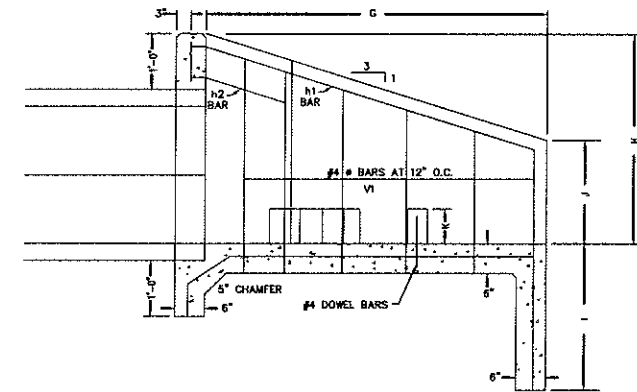
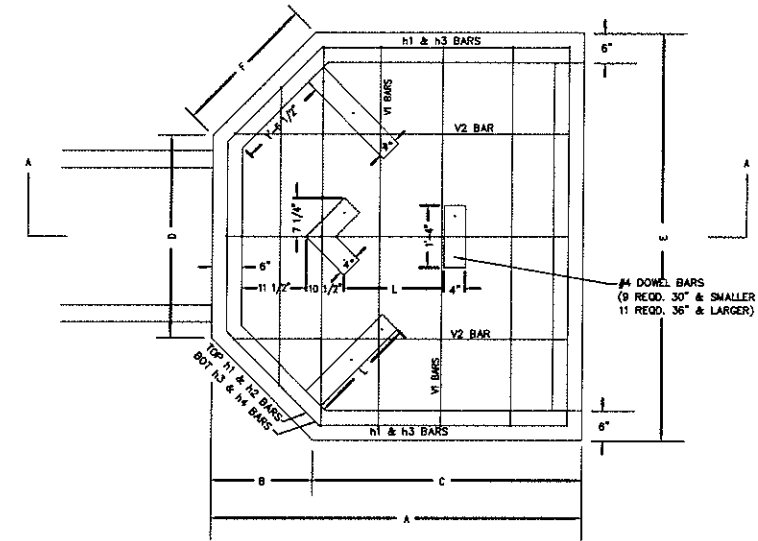
- 1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 30"
- 2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065

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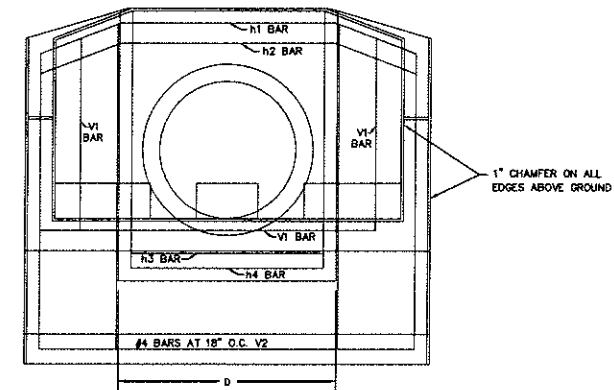
DRAWN BY	AWA	MATERIAL	
DATE	8-10-00		
APPD BY	CJA	PROJECT NO./NAME	
DATE	8-10-00		
DWG SIZE	A	SCALE	1:40 SHEET 1 OF 1
DWG NO. 7001-110-042		REV C	

Nyloplast
 3130 VERONA AVE
 BUFORD, GA 30518
 PHN (770) 932-2443
 FAX (770) 932-2490
 www.nyloplast-us.com

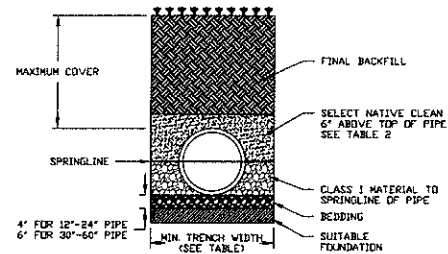
TITLE	8 IN - 30 IN TYPICAL INSTALLATION OPTIONS
DWG NO.	7001-110-042
REV	C



DIA	12" - 15"
A	5'-3 3/4"
B	1'-8 3/4"
C	3'-0 3/4"
D	2'-0 3/4"
E	5'-5 1/2"
F	2'-4 3/4"
G	4'-9 3/4"
H	2'-5 3/4"
I	2'-0"
J	0'-10"
K	8"
L	1'-5"

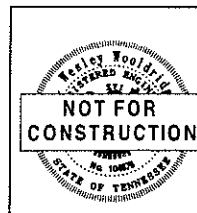


TYPE E HEADWALL with WINGWALLS
 N.T.S.



NOTES

1. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
2. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321, CLASS I/II MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
3. FOUNDATION: EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4" - 24" (100mm-600mm), 6" (150mm) FOR 30" - 48" (760mm-1200mm).
5. BACKFILL: UP TO THE SPRINGLINE OF PIPE, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER, CLASS I MATERIAL MUST BE COMPACTED IN 6" (200mm) LIFTS TO 95% STANDARD PROCTOR DENSITY.
6. MINIMUM COVER: AREAS IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION.
7. SELECT NATIVE CLEAN BACKFILL SHALL BE WELL PLACED, MODERATELY COMPACTED (85% SPD) CLASS IV OR BETTER PER ASTM D2321 WITH NO FOREIGN DEBRIS INCLUDING ROCKS, LARGE CLUMPS ORGANIC MATERIAL, OR FROZEN MATERIAL.

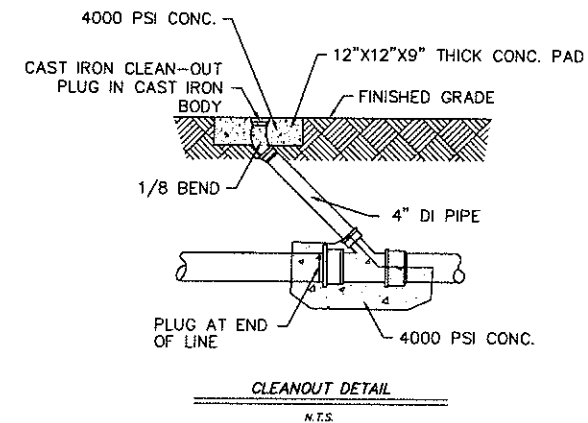
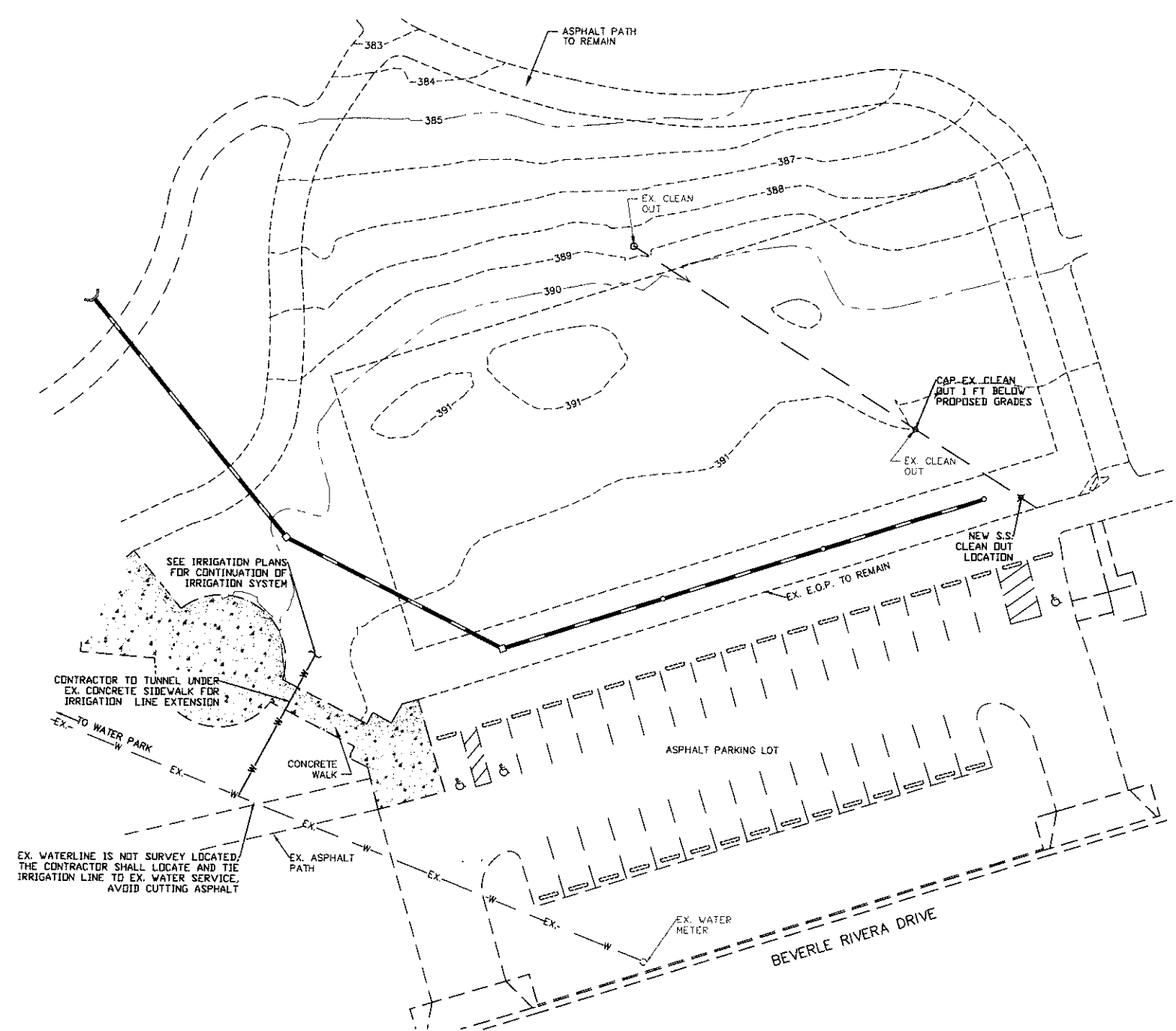
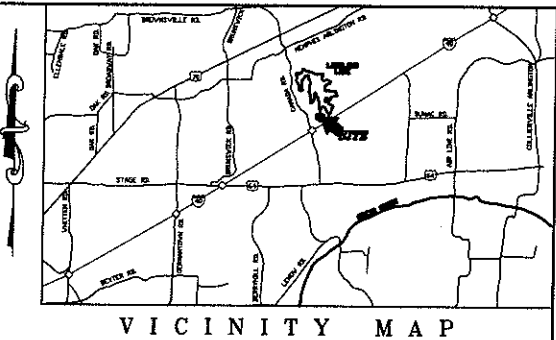


REVISIONS		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

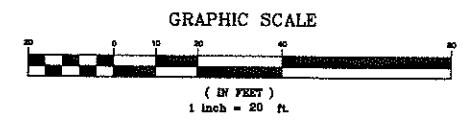
WINWARD SLOPES PARK BALL FIELD
 RENAISSANCE GROUP, INC.
 9700 VILLAGE CIRCLE, SUITE 100
 LAKELAND, TN 38002
 (901) 332-5633 VOICE (901) 332-5634 FAX EMAIL: @RGROUP.BIZ

DEPARTMENT OF ENGINEERING
GRADING DETAILS
 LAKELAND, TENNESSEE

FROM: NA TO: NA
 SURVEY: M.L.S. DATE: 05/17 BOOK: DC
 SCALE: 1"=20'
 DESIGN: JHW DATE: 5/17 CHK: JHW DATE: 5/17
 REVIEWED BY: TOWN ENGINEER DATE:



T.B.M. #3
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	REVISIONS		WINWARD SLOPES PARK BALL FIELD RENAISSANCE GROUP, INC. 9700 VILLAGE CIRCLE, SUITE 100 LAKELAND, TN 38002 (901) 332-5533 VOICE (901) 332-5534 FAX EMAIL: RRGROUP@RZ	DEPARTMENT OF ENGINEERING UTILITY PLAN LAKELAND, TENNESSEE FROM: NA TO: NA SURVEY: MLS DATE: 05/17 BOOK: DC SCALE: 1"=20' DESIGN: JWW DATE: 5/17 CHK: JWW DATE: 5/17 TOWN ENGINEER: DATE:																
	<table border="1"> <thead> <tr> <th>ITEM NO.</th> <th>DESCRIPTION OF CHANGE</th> <th>APPROVAL DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	ITEM NO.		DESCRIPTION OF CHANGE	APPROVAL DATE															
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