

MANATEE COUNTY, FLORIDA

CANAL ROAD PIPING – FINAL DESIGN

FROM 24TH STREET EAST TO 29TH STREET EAST

MANATEE COUNTY PROJECT NO. 6067300

NO.	INDEX OF SHEETS
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2	SUMMARY OF PAY ITEMS
3	GENERAL NOTES & TYPICAL SECTION
4	DRAINAGE MAP
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12	STORMWATER POLLUTION PREVENTION PLAN

GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED JANUARY 2008,

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, AS AMMENDED BY CONTRACT DOCUMENTS,

MANATEE COUNTY TRANSPORTATION HIGHWAY & DRAINAGE STANDARDS DATED 2007.

ANY COUNTY UTILITIES EFFECTED AS A RESULT OF THIS PROJECT SHALL BE DEALT WITH PER THE LATEST VERSION OF THE APPROVED MANATEE COUNTY UTILITY STANDARDS.

AT LEAST 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE LOCAL MAINTENANCE FDOT ENGINEER'S OFFICE TO SECURE GENERAL USE PERMIT AND/OR OTHER PERMITS AS REQUIRED FOR WORKING WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.

UTILITIES SHOWN WHERE INTERPOLATED FROM THE FOLLOWING CONSTRUCTION AND RECORD DRAWINGS:

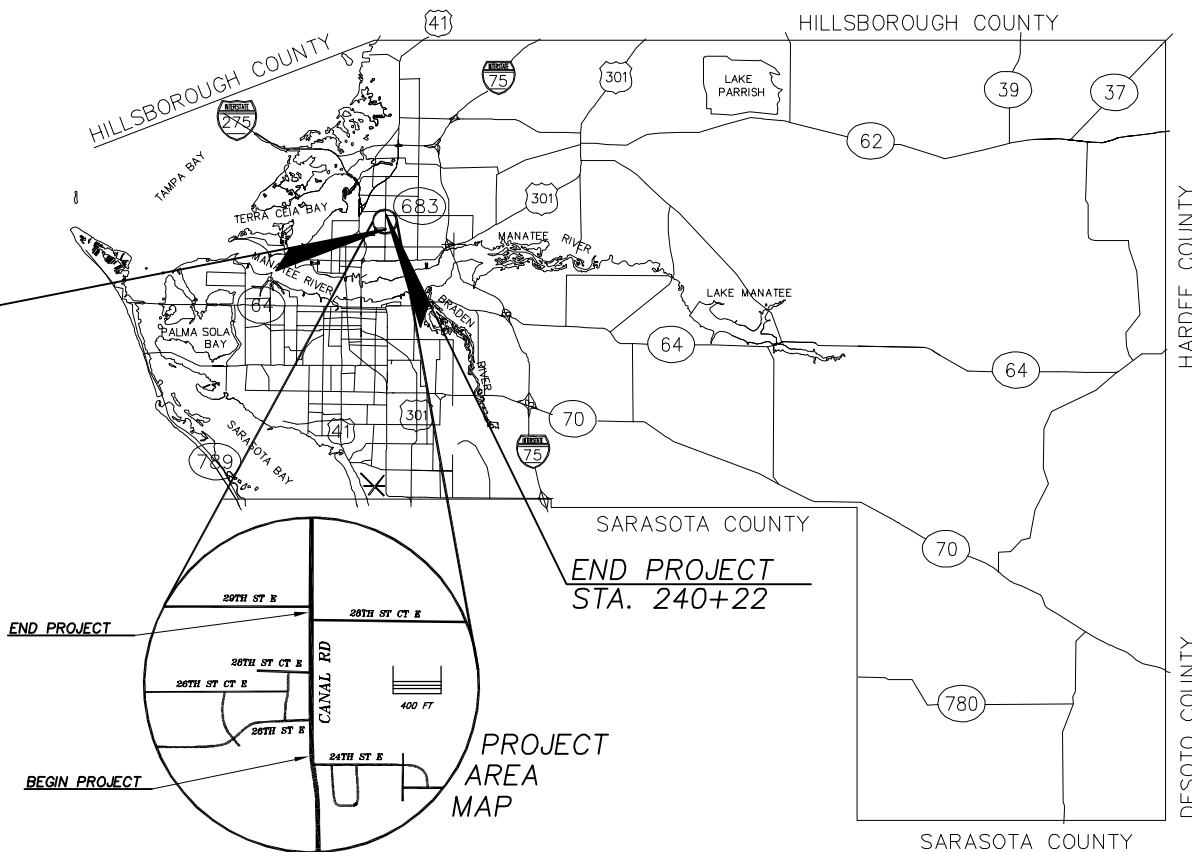
NORTH SUREGIONAL SEWER SYSTEM – 1988 – LARSON ENGINEERING, INC.
SAFETY IMPROVEMENTS TO CANAL ROAD – 1993 – GRACE RADCLIFFE, INC.

SURVEY DATA ALONG CANAL ROAD WAS INTERPOLATED FROM GRACE RADCLIFFE, INC. PLANS DATED 1993.

SURVEY DATA FOR THE EXISTING CANAL ROAD DITCH SYSTEM WAS PROVIDED BY BOWYER-SINGLETON & ASSOCIATES, INC. DATED 2007.

BEGIN PROJECT
STA. 226+71

END PROJECT
STA. 240+22



SHOP DRAWINGS TO BE SUBMITTED TO:

DAVID O. THEUNG, PE #44786
Wade Trim, Inc.
8745 Henderson Road, Suite 220
Tampa, Florida 33634

Vendor No. 59-2417170

PLANS PREPARED BY:



NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

CONSTRUCTION PLANS ENGINEER OF RECORD: DAVID O. THEUNG, P.E.

P.E. NO.: 44786

LENGTH OF PROJECT	
	FEET
ROADWAY	1,351
BRIDGES	N/A
NET LENGTH OF PROJ.	1,351
EXCEPTIONS	N/A
GROSS LENGTH OF PROJ.	1,351

WADE TRIM PROJECT MANAGER : MICHAEL REINEKE

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

JUNE 22, 2009
BID PLANS

PAY ITEM QUANTITIES:

ITEM	PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	101-1	Mobilization (5%)	LS	1
2	102-1	Maintenance of Traffic (7%)	LS	1
3	104-10-2	Synthetic Bales	LF	20
4	104-11	Floating Turbidity Barrier	LF	45
5	110-1-1	Clearing & Grubbing	LS	1
6	120-1	Regular Excavation	CY	3219
7	120-6	Embankment (Inc. final grading work)	CY	4097
8	285-705	Optional Base, Group 5 (Crushed Conc)	SY	70
9	327-70-1	Milling Existing Asphalt Pavement, 1"	SY	94
10	334-1-11	Superpave Asphaltic Conc, Traffic A, SP-9.5	TN	11.6
11	400-1-2	Concrete Class I, Endwalls	CY	11.6
12	400-1-15	Concrete Class I, Miscellaneous	CY	0.2
13	425-1-583	DBI Type H, J Bot, <10', Mod	EA	7
14	425-2-71	MH, J-7, <10', Mod	EA	3
15	430-175-101	Pipe Culvert, Opt Mat, Round, 0-24"S/CD	LF	16
16	430-175-202	Pipe Culvert, Opt Mat, Ellip, 25-36"S/CD	LF	34
17	430-175-203	Pipe Culvert, Opt Mat, Ellip, 37-48"S/CD	LF	2590
18	520-1-10	Concrete Curb and Gutter, Type F	LF	35
19	536-73	Guardrail Removal	LF	1196
20	570-1-2	Performance Turf, Sod	SY	6584
21	630-1-12	Signals-Conduit, F&I, Underground	LF	15
22	635-1-11	Pull & Junction Boxes, F&I, Pull Box	EA	1
23	660-2-106	Loop Detector, Inductive, F&I, Type F	EA	2
24	700-20-40	Single Post Sign (Relocate)	AS	1
25	730-76-108	Steel Casing, F&I, 14"	LF	20
26	1100-141-508	6" DIP Class 50 Watermain (RJ)	LF	35
27	1698-122-408	6" 45° Bend	EA	4
28		Utility Adjustments	LS	1
29		Utility Coordination	LS	1
30		Discretionary Work (7%)	LS	1

PAY ITEM NOTES:

120-1 CONTRACTOR IS ADVISED OF THE POTENTIAL OF SHALLOW LIMESTONE LAYERS IN THE PROJECT VICINITY. ROCK EXCAVATED SHALL BE INCIDENTAL TO REGULAR EXCAVATION, SUBSOIL EXCAVATION, OR INCLUDED IN THE BID PRICE FOR PIPE. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

285-107 OPTIONAL BASE, GROUP 5 SHOULD BE CRUSHED CONCRETE ONLY.

DESIGNED BY	MR	DATE	05/01/09	REVISION DESCRIPTION & DATE	BY	NO.
CHECKED BY	JT	DATE	05/01/09
DRAWN BY	BG	DATE	05/01/09			
CHECKED BY	LS	DATE	05/01/09			
SUPERVISED BY	DAVID O. THEUNG, PE 44786					



**CANAL ROAD PIPING
FINAL DESIGN**
FROM 24TH STREET EAST TO 29TH STREET EAST
MANATEE COUNTY, FLORIDA



ENGINEER Proj. No. 6067300

Dwg. Date 06/01/09

**SUMMARY OF
PAY ITEMS**

GENERAL NOTES:

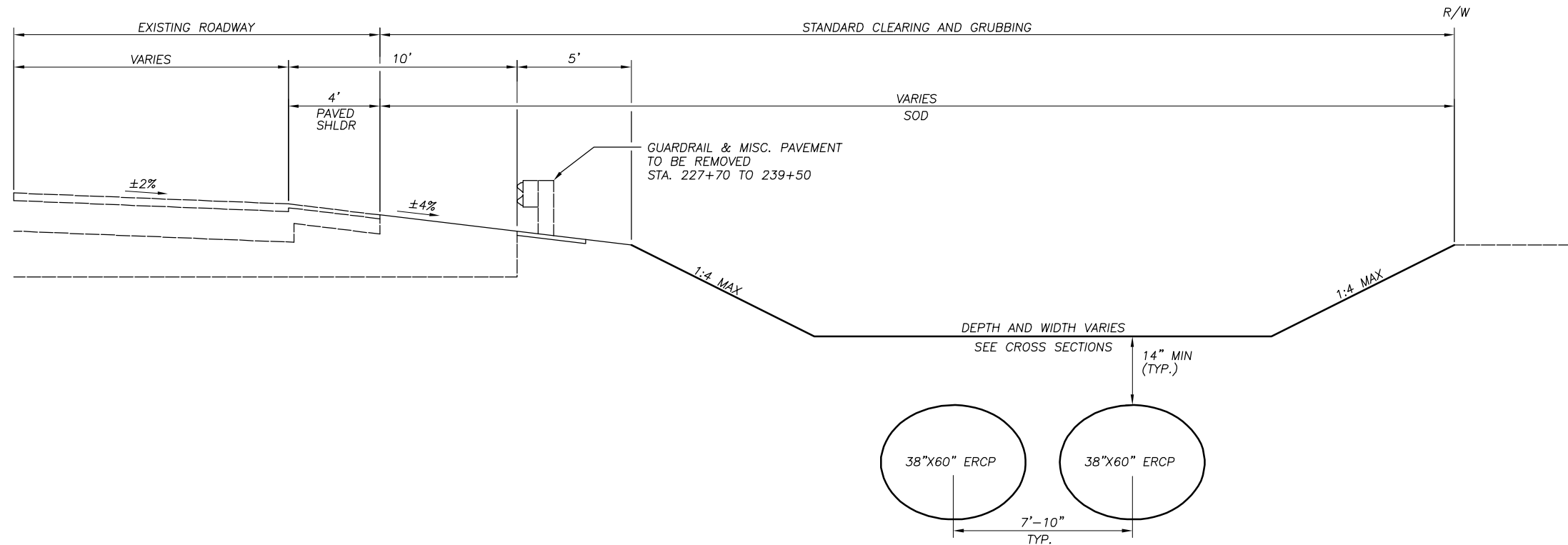
1. All elevations are based on NAVD-88 Datum. Addition of +0.98 required to convert shown elevation to NGVD-29.
2. Florida Statute 553.851 (1979) requires a minimum of 2 days and a maximum of 5 days notice before any excavation. Call Sunshine State One Call Center of Florida, Inc. (811).
3. The Contractor shall contact the Manatee County Public Services Department 48 hours prior to Construction activities commencing.
4. All existing drainage structures within the right-of-way shall be removed unless shown on the plans to remain.
5. Special attention is directed to the fact that portions of some drainage structures extend into the stabilized portion of the roadbed and extreme caution will be necessary in stabilization operations at these locations.
6. All proposed storm pipe shall be Class IV reinforced concrete pipe.
7. Install a filter fabric jacket around all storm pipe joints and the joints between the pipe and structures.
8. Pipe shall be constructed per manufacturer's specifications.
9. The contractor(s) shall make whatever additional geotechnical investigation he deems necessary to determine his bid.
10. The contractor(s) performing trench excavation on this contract shall comply with the occupational safety and health administrations (OSHA) trench excavation safety standards, 29 C.F.R., S.1926.650. subpart P, including all subsequent revisions or updates to the standards as adopted by the department of labor and employment security (DLES).
11. Unless otherwise specified in the plans, existing sod, seed, and pavement material disturbed by construction, shall be replaced in kind (or better, as approved by the county's project manager.)
12. Any wells discovered during Land Clearing shall be protected or abandoned in accordance with SWFWMD rule Chapter 40 D.
13. Any public land corner, right-of-way monumentation, or other property corners within the limits of construction are to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the Engineer should notify the Consultant's Project Surveyor, without delay, by telephone. Monumentation destroyed during the course of construction should be reset at the completion of the project.
14. Maintenance of Traffic (MOT) shall be performed per Manatee Co. std. 406.0.

Posted speed = 35 mph

UTILITY NOTES:

1. The contractor shall verify the location, elevation, and dimensions of all existing utilities, structures, and other features affecting his work and shall comply with all state, county, and local ordinances and obtain any necessary work permits that may be required prior to construction.
2. Existing utilities are to remain in place unless otherwise noted.
3. Utility/Agency Owners:

Company	Contact	Telephone Number
Bright House Networks	Tom Wright	(941) 748-3816
Peace River Electric Cooperative, Inc.	Jerry Twigg	(863) 767-4602x4602
Florida Power & Light	Greg Coker	(941) 723-4430
Manatee County Public Works	Tod Phinney	(941) 708-7400x5064
Manatee County Transportation Department	Aaron Burkett	(941) 708-7510
Verizon Florida, Inc.	Denise Hutton	(941) 906-6722



**TYPICAL SECTION CANAL ROAD
STA. 228+00.00 TO STA. 239+21.00**

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CHECKED BY	LS	DATE	05/01/09			
SUPERVISED BY	DAVID O. THEUNG, PE	44786				

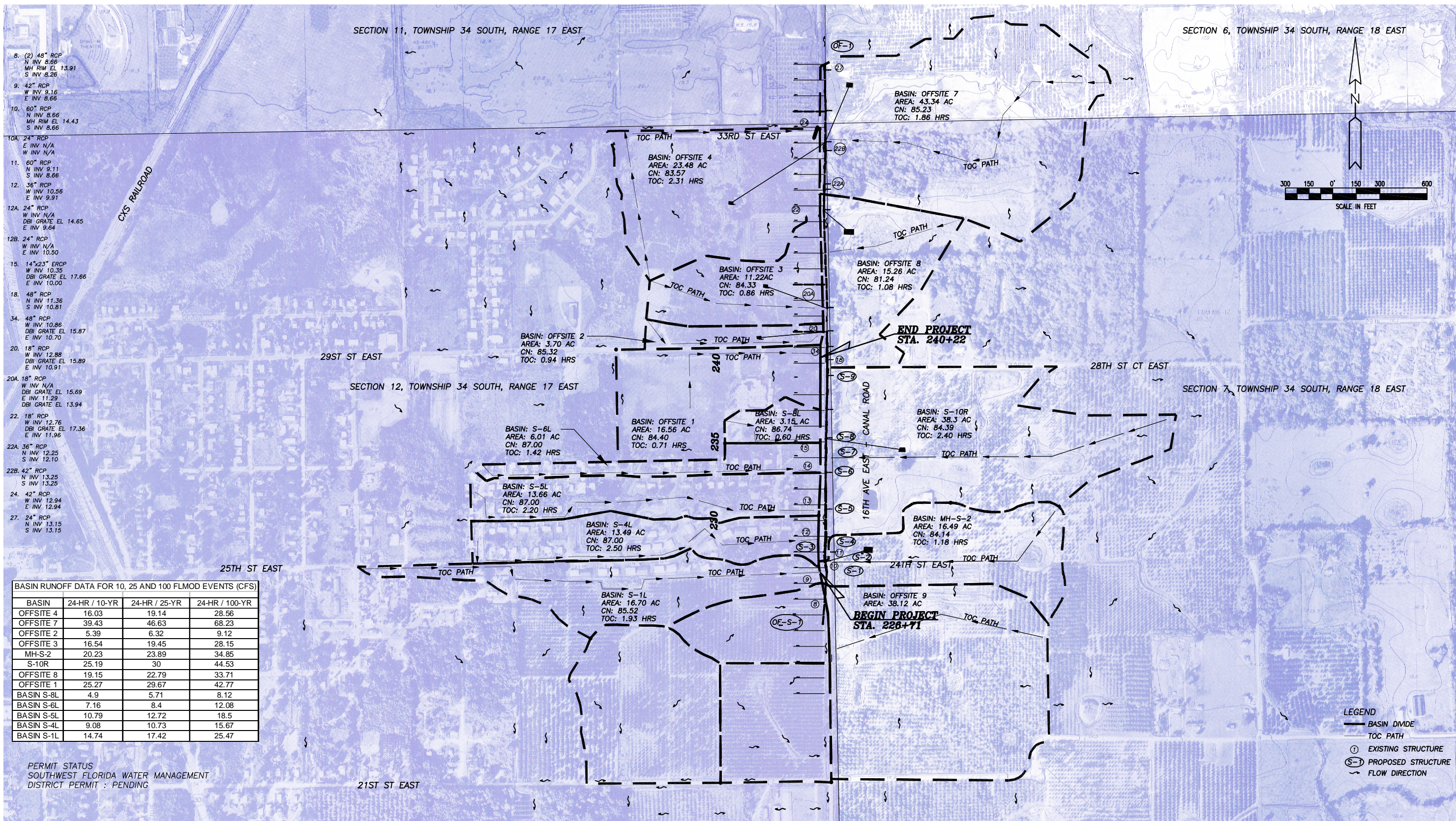


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**GENERAL NOTES &
TYPICAL SECTION**



BASIN RUNOFF DATA FOR 10, 25 AND 100 FLMOD EVENTS (CFS)

BASIN	24-HR / 10-YR	24-HR / 25-YR	24-HR / 100-YR
OFFSITE 4	16.03	19.14	28.56
OFFSITE 7	39.43	46.63	68.23
OFFSITE 2	5.39	6.32	9.12
OFFSITE 3	16.54	19.45	28.15
MH-S-2	20.23	23.89	34.85
S-10R	25.19	30	44.53
OFFSITE 8	19.15	22.79	33.71
OFFSITE 1	25.27	29.67	42.77
BASIN S-8L	4.9	5.71	8.12
BASIN S-6L	7.16	8.4	12.08
BASIN S-5L	10.79	12.72	18.5
BASIN S-4L	9.08	10.73	15.67
BASIN S-1L	14.74	17.42	25.47

PERMIT STATUS
SOUTHWEST FLORIDA WATER MANAGEMENT
DISTRICT PERMIT : PENDING

LEGEND
 — BASIN DIVIDE
 - - - TOC PATH
 (S) EXISTING STRUCTURE
 (S-1) PROPOSED STRUCTURE
 ~~~ FLOW DIRECTION

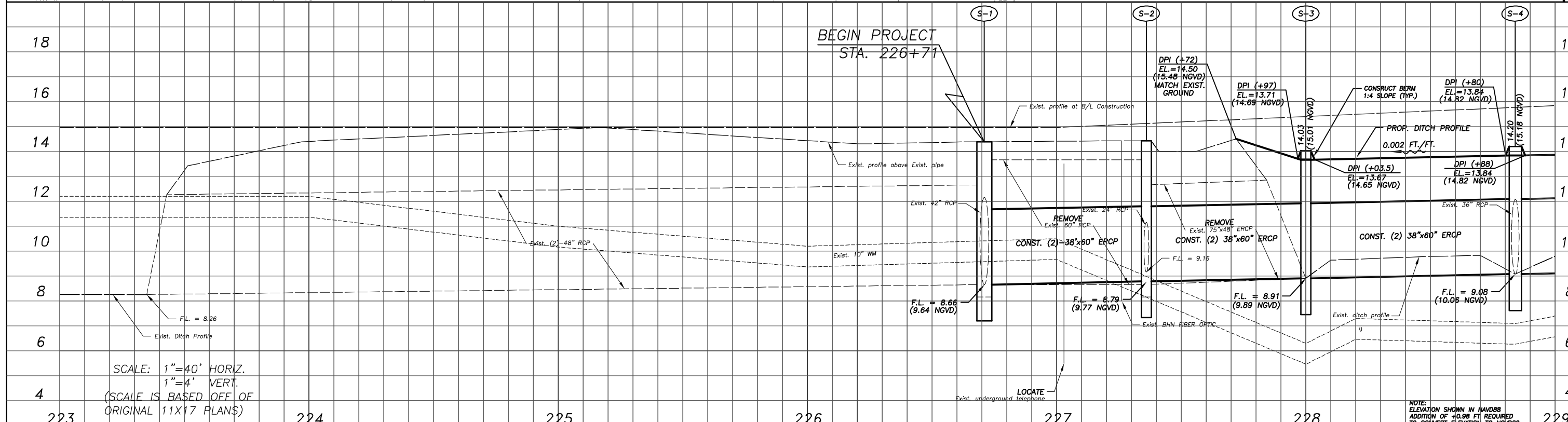
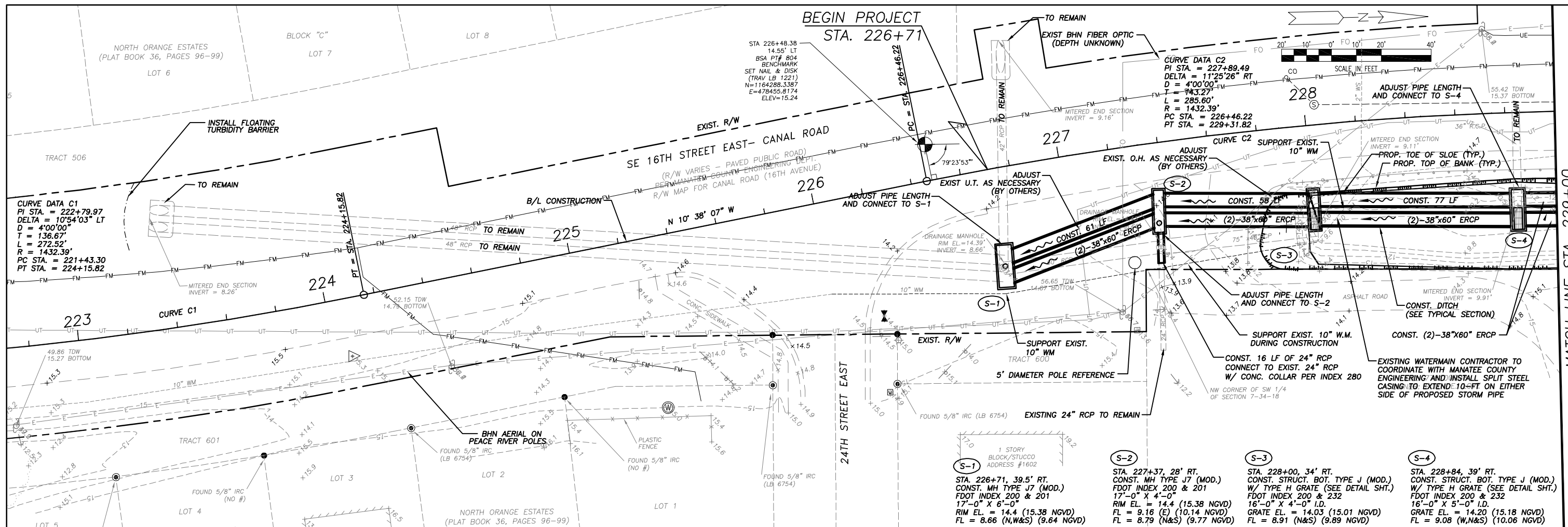
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| CHECKED BY    | PS                  | DATE | 05/01/09 | ...                         | ... | ... |
| DRAWN BY      | LM                  | DATE | 05/01/09 |                             |     |     |
| CHECKED BY    | PS                  | DATE | 05/01/09 |                             |     |     |
| SUPERVISED BY | DAVID O. THEUNG, PE |      | 44786    |                             |     |     |



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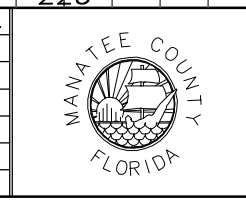


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| ENGINEER            | Proj. No. 6067300  |
|                     | Dwg. Date 05/01/09 |
| <b>DRAINAGE MAP</b> |                    |



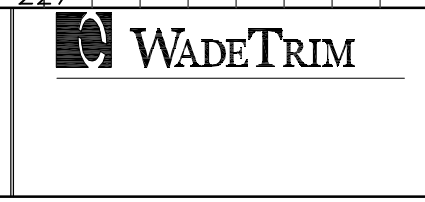
DESIGNED BY MR DATE 05/01/09  
 CHECKED BY PS DATE 05/01/09  
 DRAWN BY KR DATE 05/01/09  
 CHECKED BY PS DATE 05/01/09  
 SUPERVISED BY DAVID O. THEUNG, PE 44786

| REVISION DESCRIPTION & DATE | BY  | NO. |
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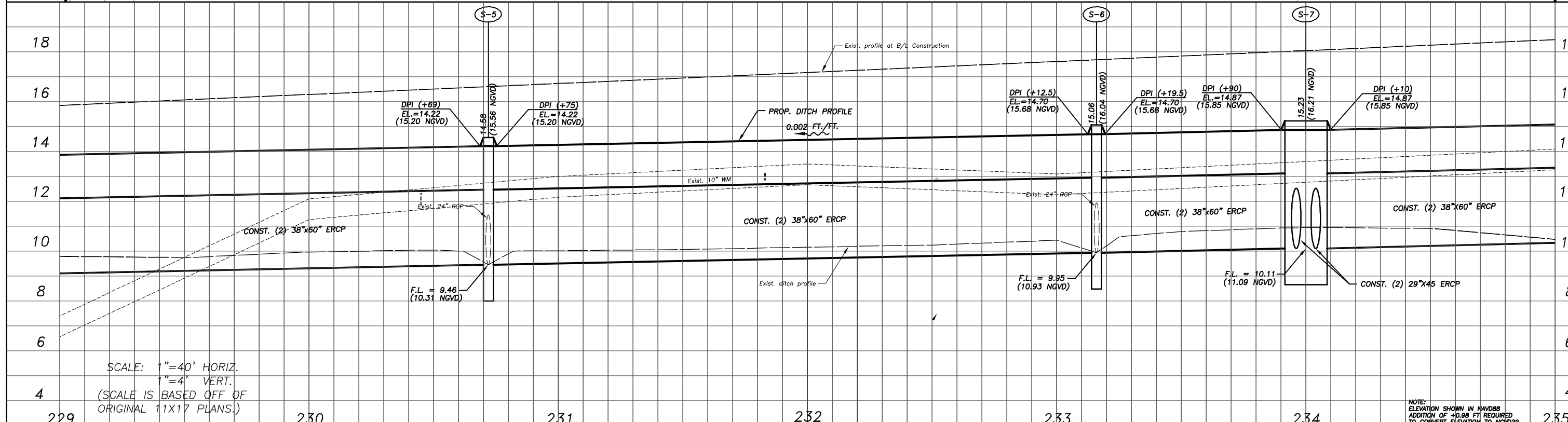
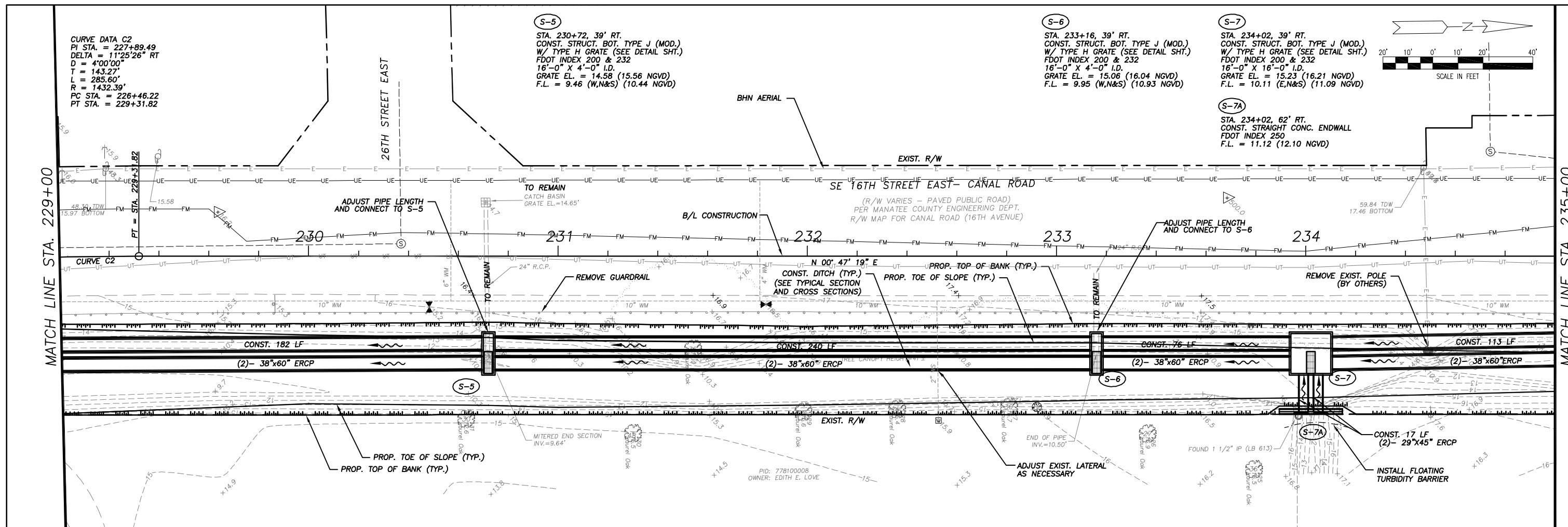


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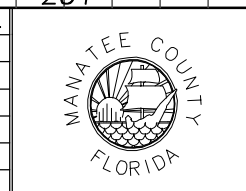
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| <b>PLAN &amp; PROFILE</b> |                    |



SCALE: 1"=40' HORIZ.  
1"=4' VERT.  
(SCALE IS BASED OFF OF ORIGINAL 11X17 PLANS.)

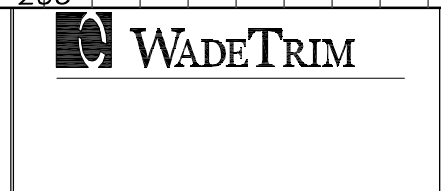
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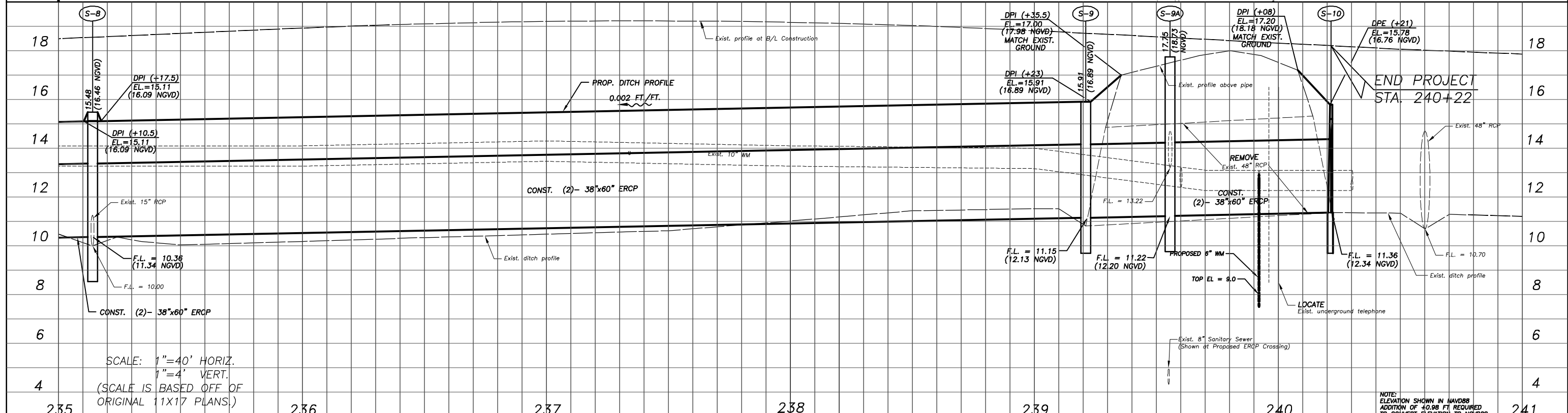
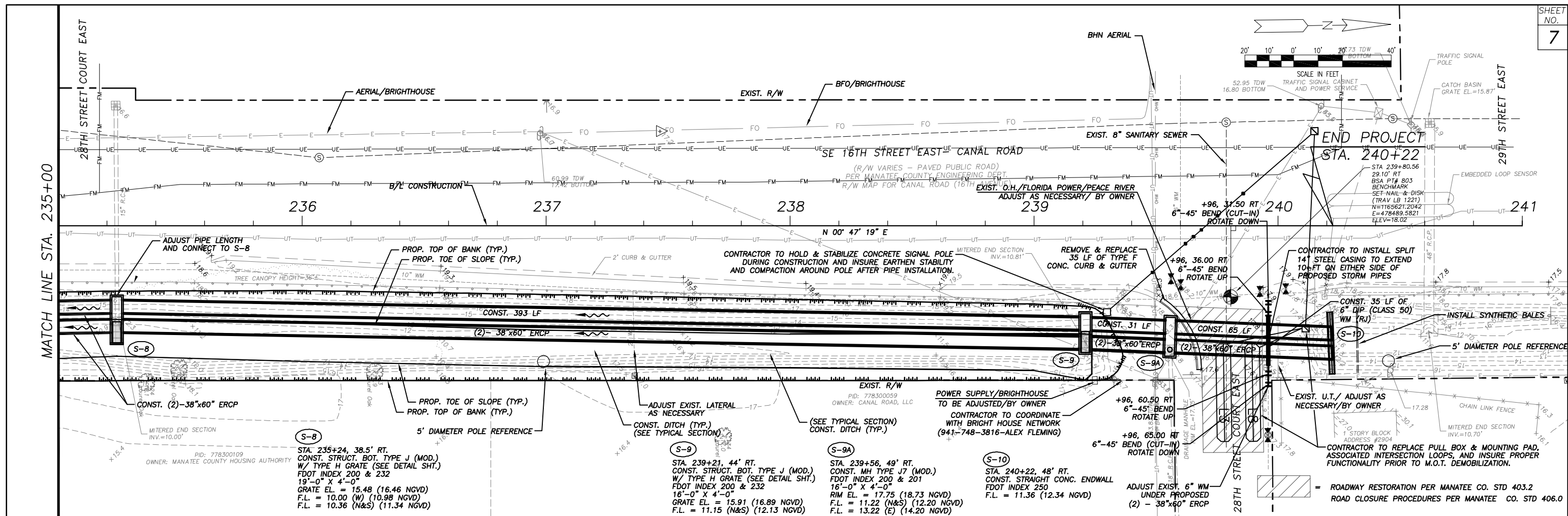


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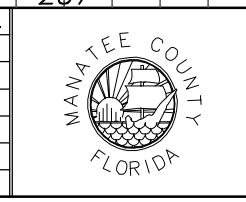
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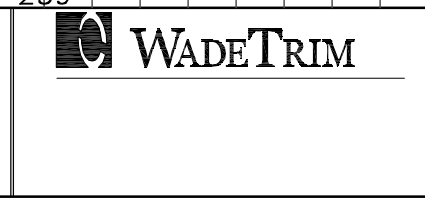
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| DRAWN BY      | KR                        | DATE | 05/01/09 |
| CHECKED BY    | PS                        | DATE | 05/01/09 |
| SUPERVISED BY | DAVID O. THEUNG, PE 44786 |      |          |

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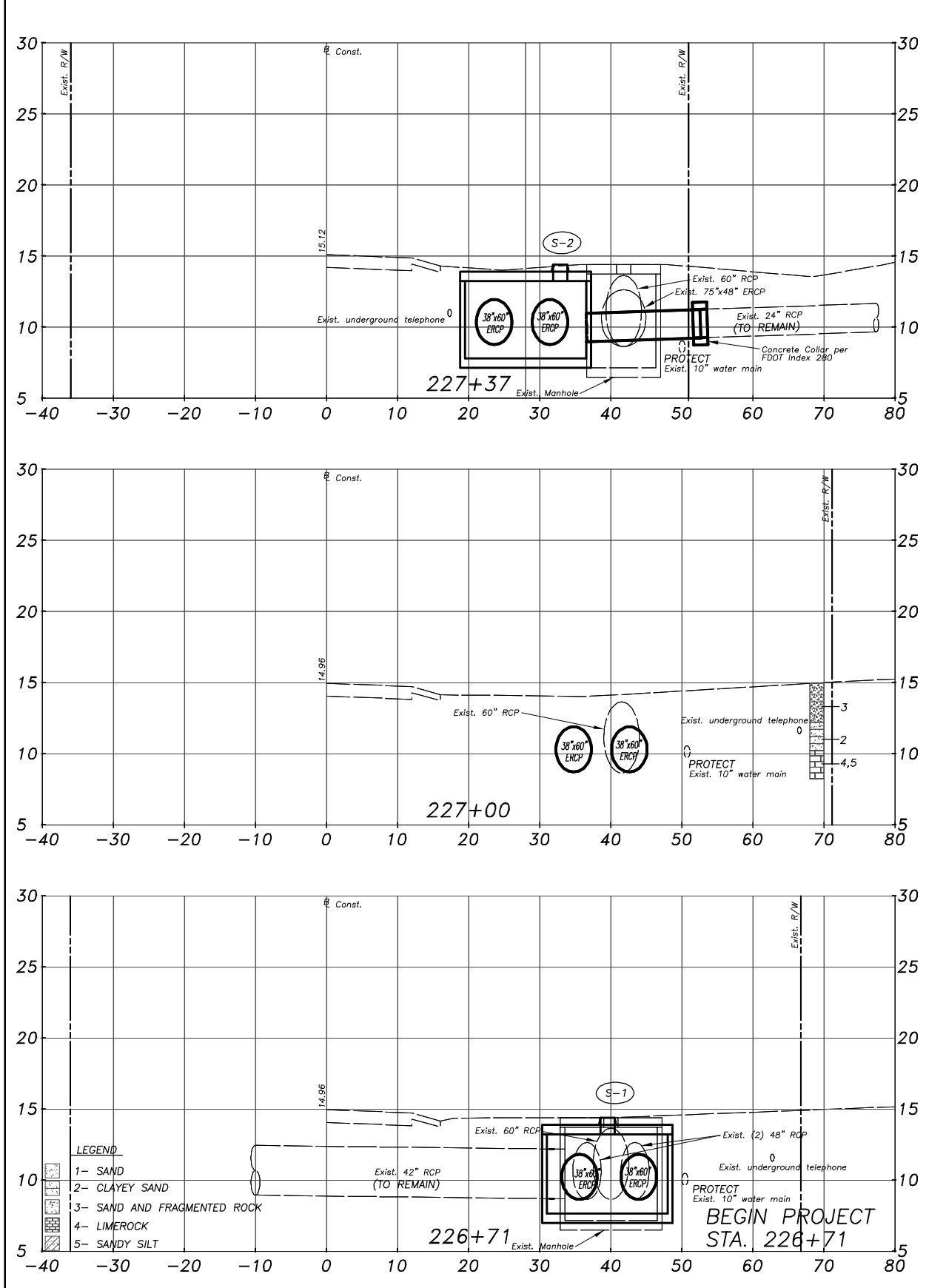
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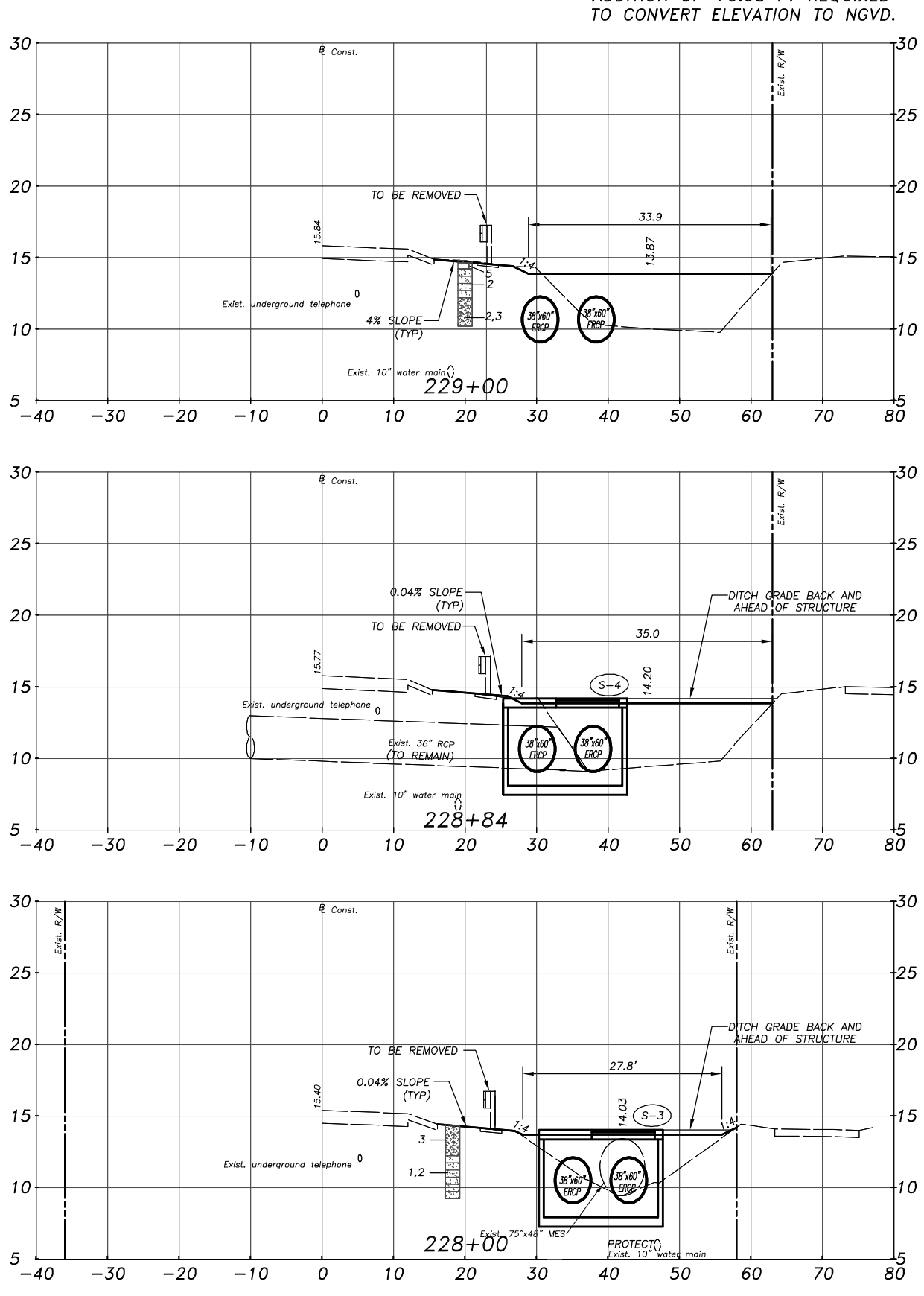


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| ENGINEER                  | Proj. No. | 6067300  |
|                           | Dwg. Date | 05/01/09 |
| <b>PLAN &amp; PROFILE</b> |           |          |

NOTE:  
ELEVATION SHOWN IN NAVD88  
ADDITION OF +0.98 FT REQUIRED  
TO CONVERT ELEVATION TO NGVD.



| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 220          |   | 0          |   |
| 0            |   | 213          |   | 0          |   |
| 0            |   | 91           |   | 0          |   |
| 0            |   | 138          |   | 0          |   |
| 0            |   | 166          |   | 0          |   |



| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 52           |   | 96         |   |
| 0            |   | 42           |   | 61         |   |
| 0            |   | 90           |   | 111        |   |
| 0            |   | 260          |   | 278        |   |
| 0            |   | 77           |   | 68         |   |
| 0            |   | 347          |   | 81         |   |

| DESIGNED BY   | MR                        | DATE | 05/01/09 | REVISION DESCRIPTION & DATE | BY  | NO. |
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| CHECKED BY    | PS                        | DATE | 05/01/09 | ...                         | ... | ... |
| DRAWN BY      | KR                        | DATE | 05/01/09 |                             |     |     |
| CHECKED BY    | LS                        | DATE | 05/01/09 |                             |     |     |
| SUPERVISED BY | DAVID O. THEUNG, PE 44786 |      |          |                             |     |     |



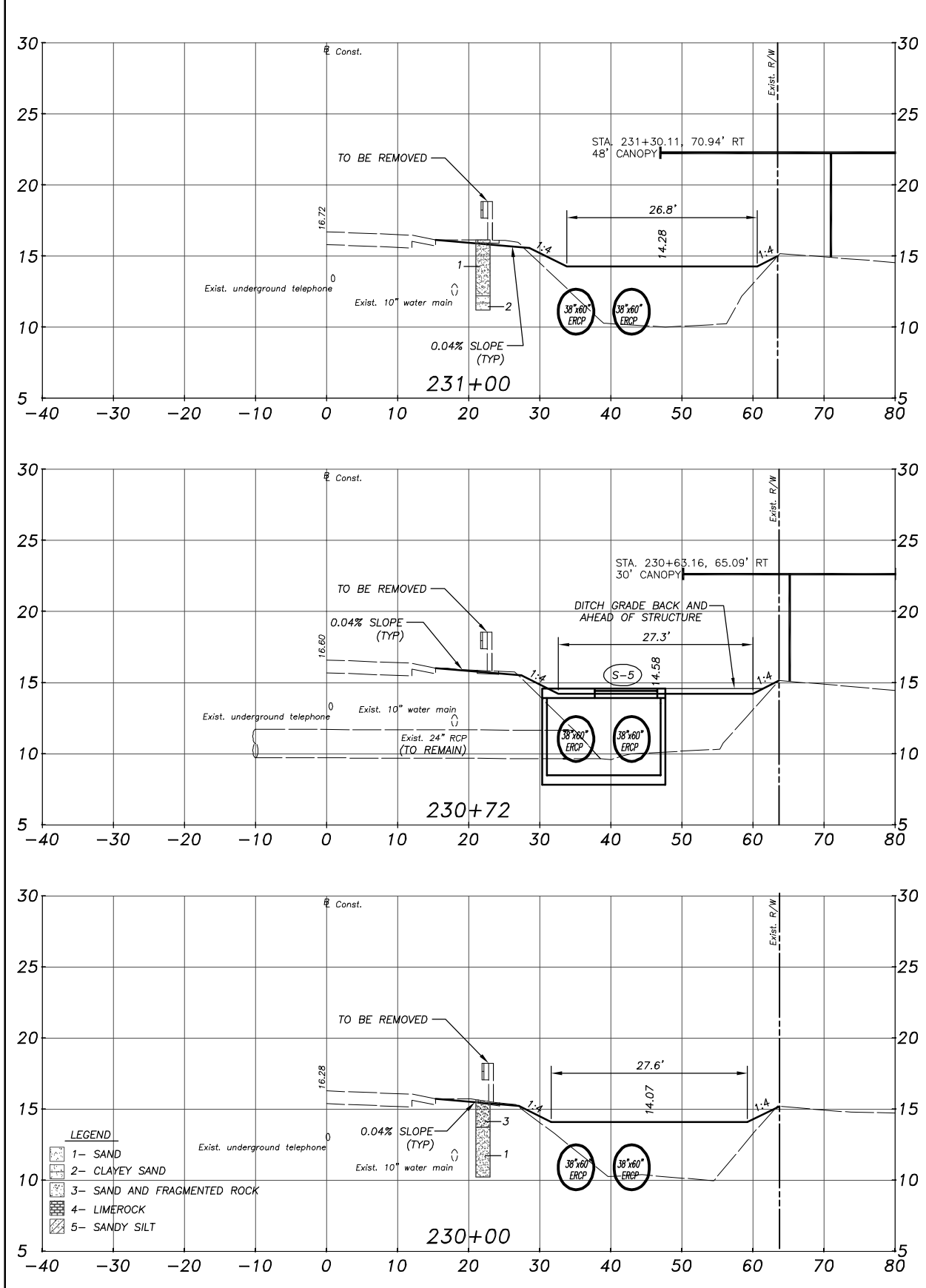
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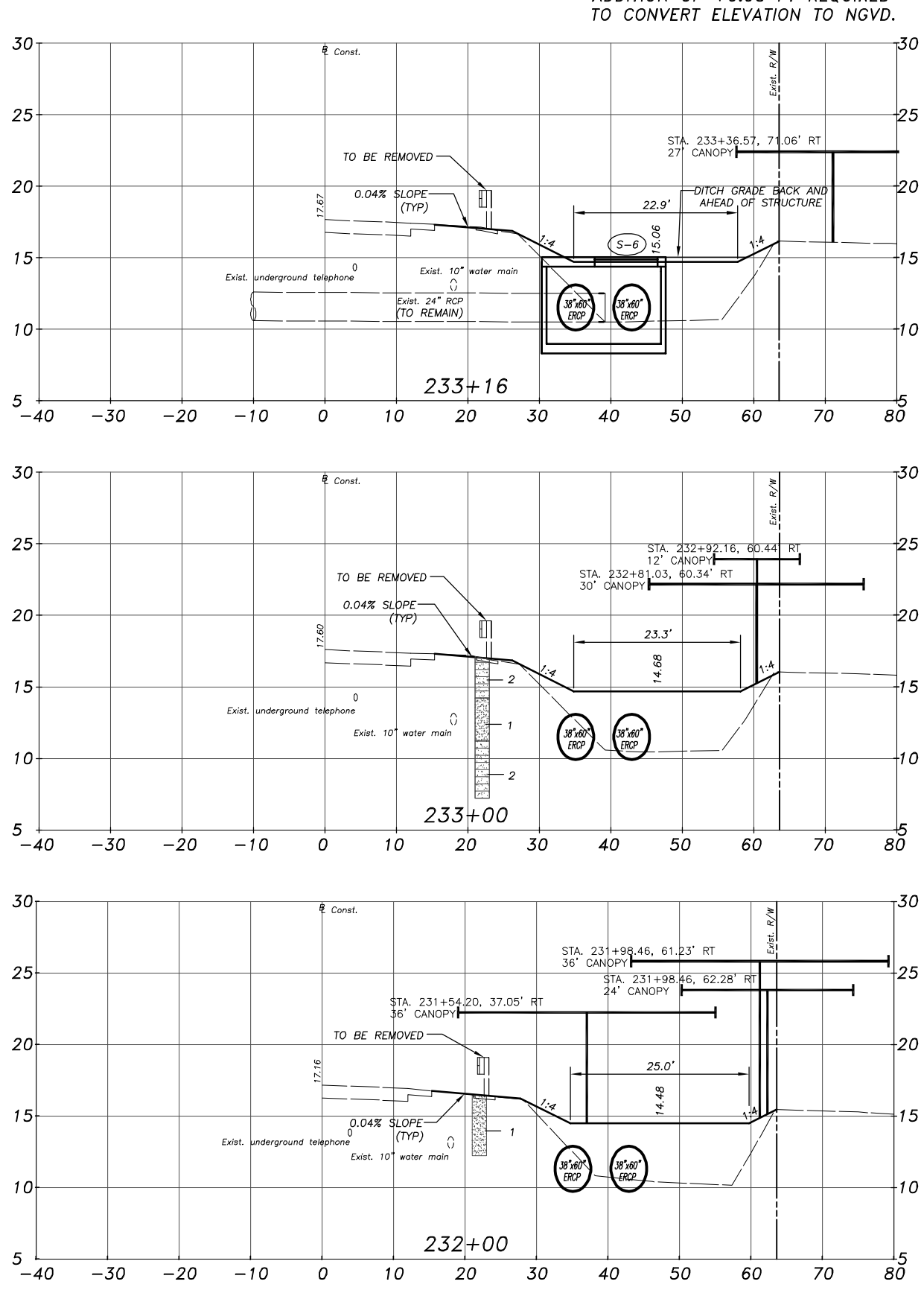
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| ENGINEER              | Proj. No. 6067300  |
|                       | Dwg. Date 05/01/09 |
| <b>CROSS SECTIONS</b> |                    |



NOTE:  
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| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 19           |   | 102        |   |
| 0            |   | 46           |   | 108        |   |
| 0            |   | 69           |   | 106        |   |
| 0            |   | 135          |   | 265        |   |
| 0            |   | 32           |   | 93         |   |
| 0            |   | 156          |   | 350        |   |



| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 77           |   | 103        |   |
| 0            |   | 31           |   | 61         |   |
| 0            |   | 29           |   | 103        |   |
| 0            |   | 113          |   | 387        |   |
| 0            |   | 32           |   | 106        |   |
| 0            |   | 94           |   | 385        |   |

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| SUPERVISED BY | DAVID O. THEUNG, PE 44786 |      |          |                             |     |     |

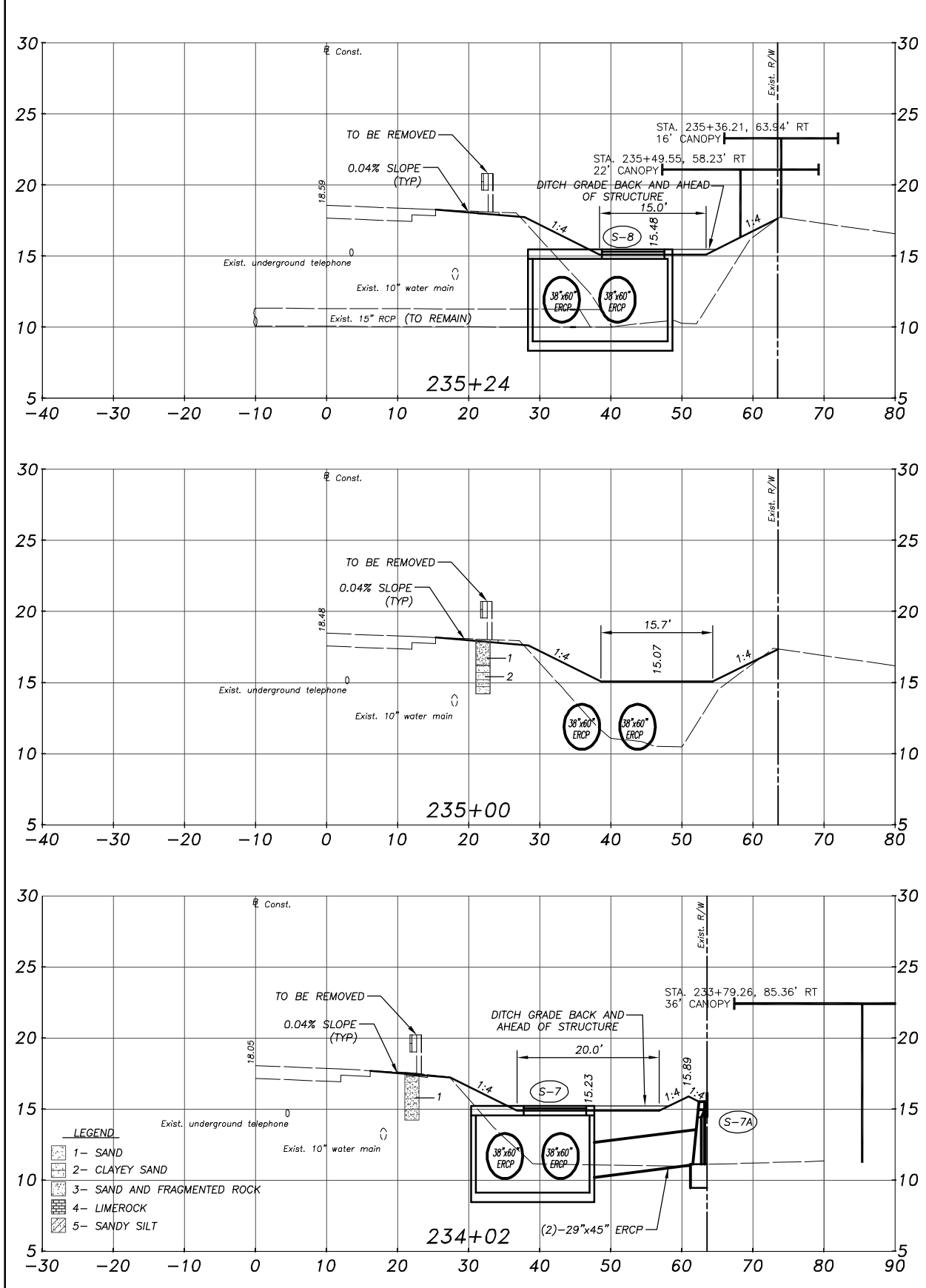


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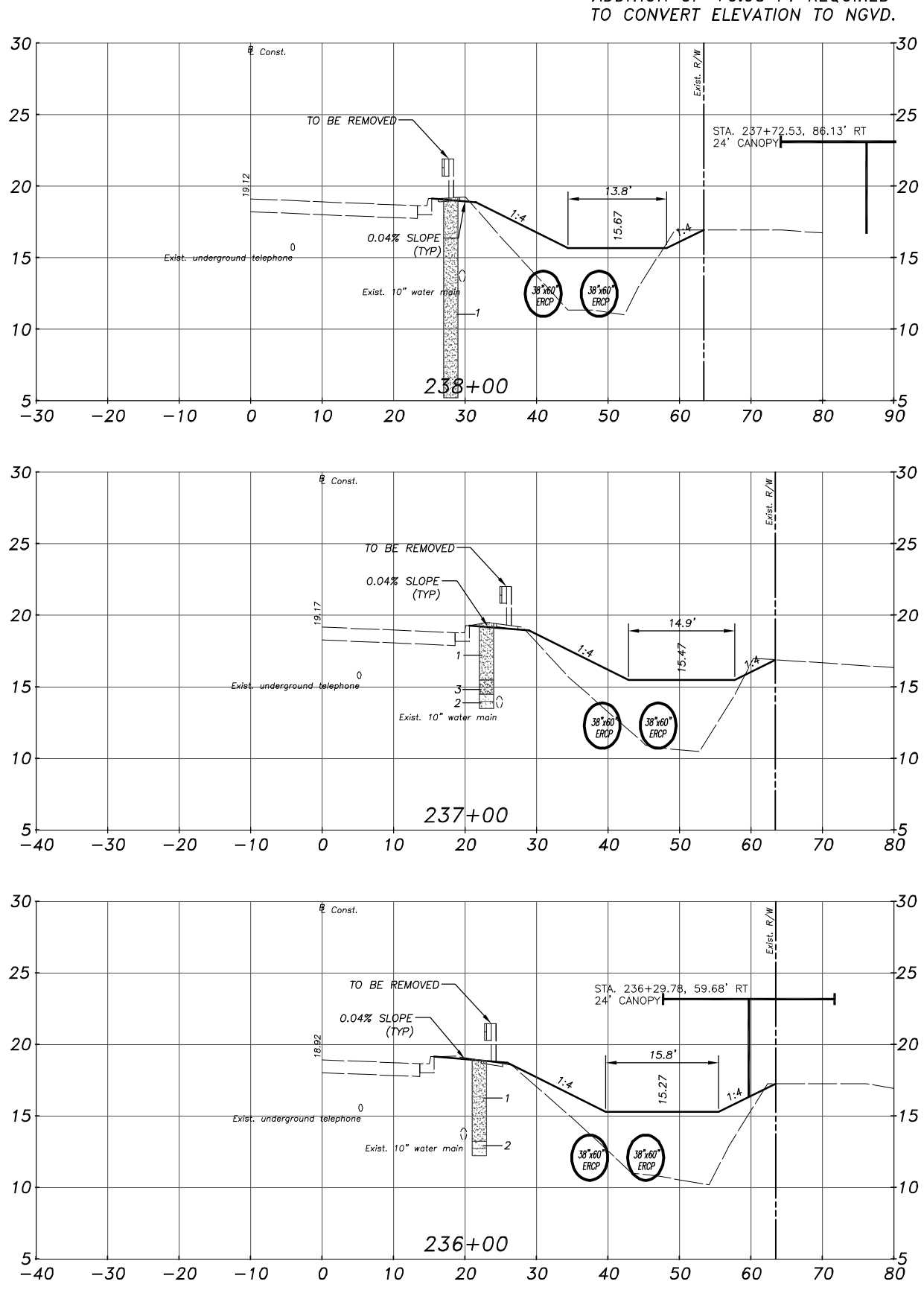


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| <b>CROSS SECTIONS</b> |                    |

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| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 104          |   | 106        |   |
| 0            |   | 59           |   | 84         |   |
| 0            |   | 29           |   | 84         |   |
| 0            |   | 254          |   | 356        |   |
| 0            |   | 111          |   | 112        |   |
| 0            |   | 299          |   | 342        |   |



| SUBSOIL EXC. |   | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|---|--------------|---|------------|---|
| A            | V | A            | V | A          | V |
| 0            |   | 27           |   | 79         |   |
| 0            |   | 107          |   | 313        |   |
| 0            |   | 31           |   | 90         |   |
| 0            |   | 117          |   | 346        |   |
| 0            |   | 32           |   | 97         |   |
| 0            |   | 191          |   | 286        |   |

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| DRAWN BY      | KR                        | DATE | 05/01/09 |                             |     |     |
| CHECKED BY    | LS                        | DATE | 05/01/09 |                             |     |     |
| SUPERVISED BY | JEFFREY D. TRIM, PE 42106 |      |          |                             |     |     |



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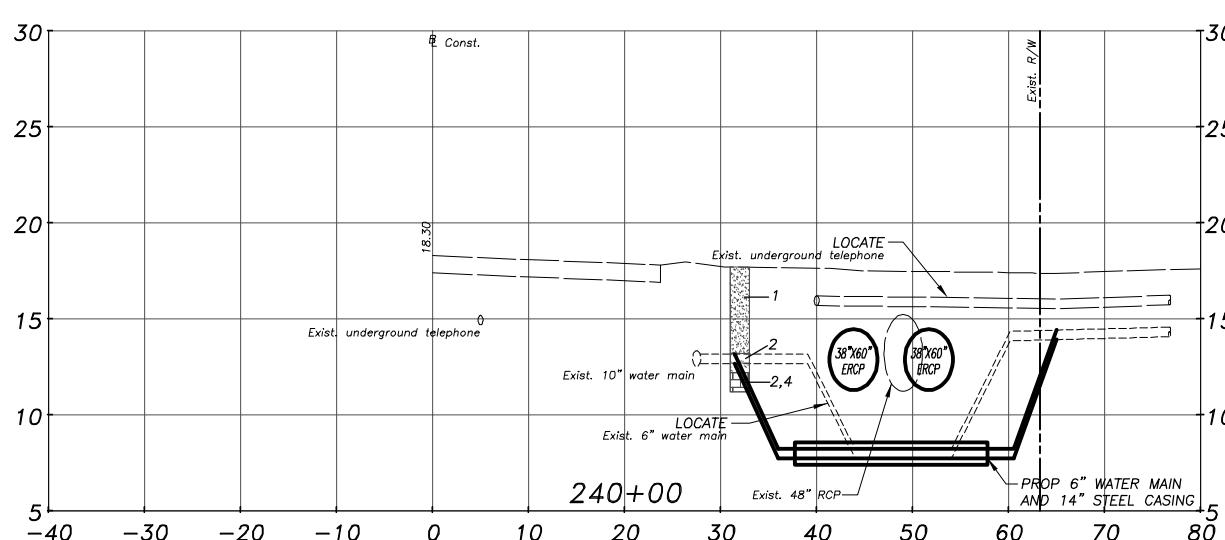
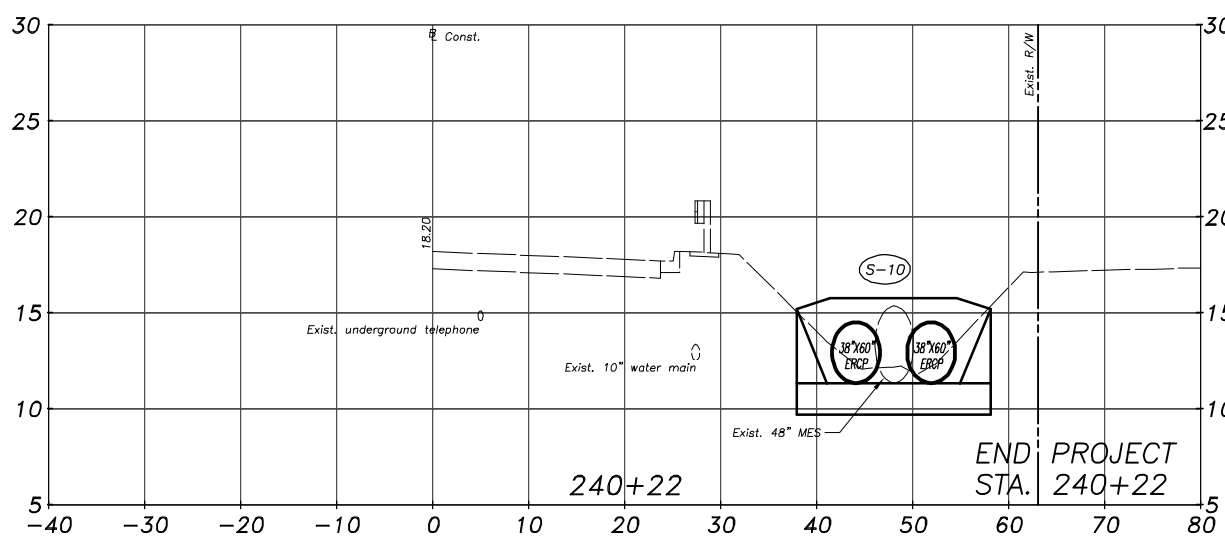
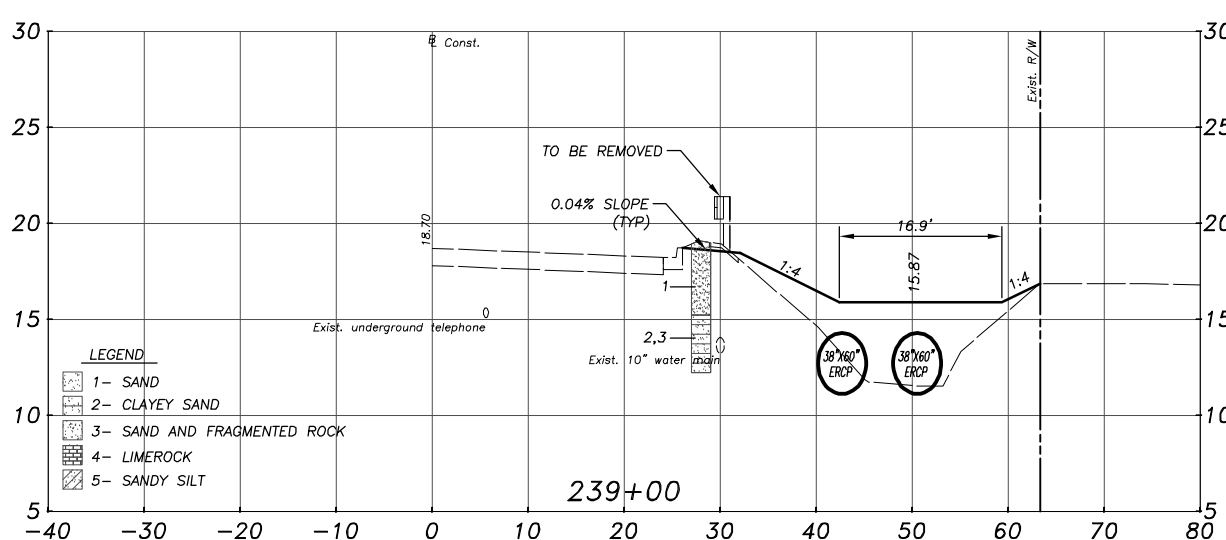
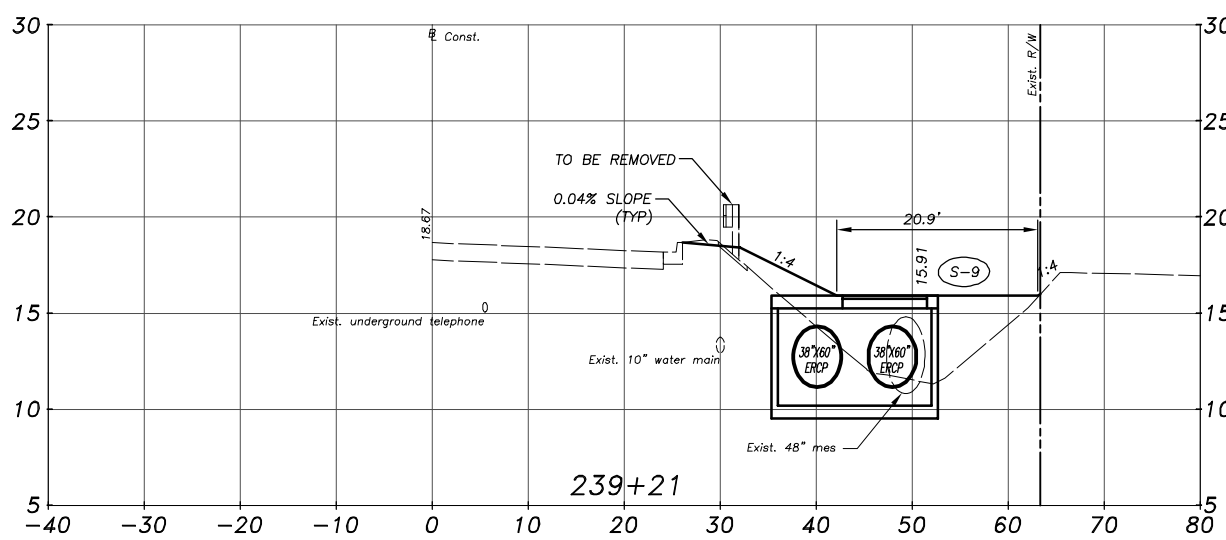
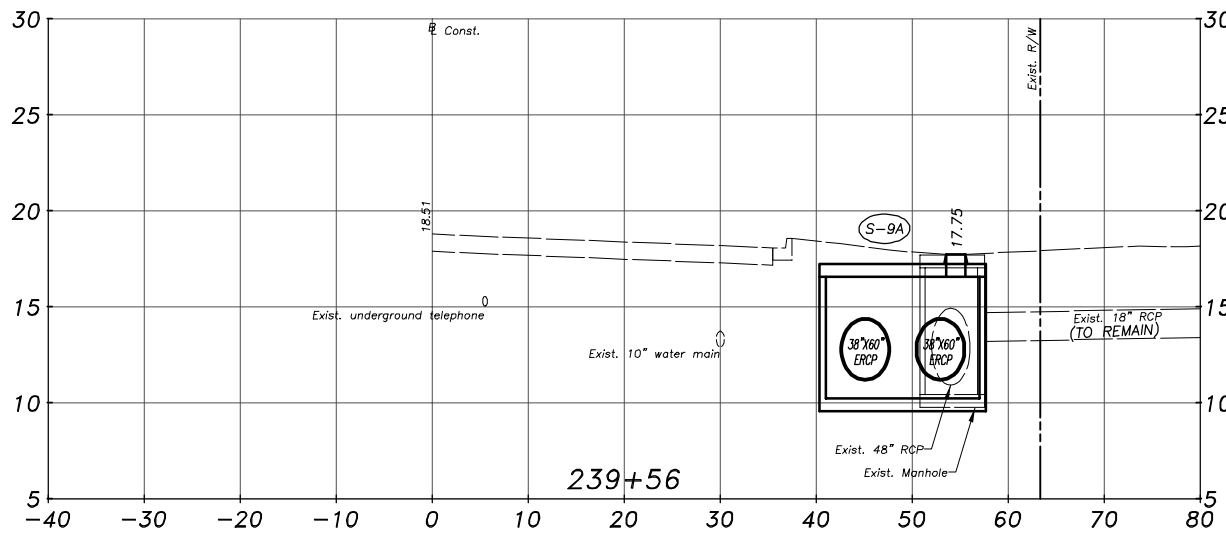
|                       |                    |
|-----------------------|--------------------|
| ENGINEER              | Proj. No. 6067300  |
|                       | Dwg. Date 05/01/09 |
| <b>CROSS SECTIONS</b> |                    |

NOTE:  
ELEVATION SHOWN IN NAVD88  
ADDITION OF +0.98 FT REQUIRED  
TO CONVERT ELEVATION TO NGVD.

| SUBSOIL EXC. | REGULAR EXC. |     | EMBANKMENT |   |
|--------------|--------------|-----|------------|---|
|              | A            | V   | A          | V |
| 0            | 180          | 0   | 0          | 0 |
| 0            | 169          | 54  | 0          | 0 |
| 0            | 81           | 83  | 0          | 0 |
| 0            | 41           | 60  | 0          | 0 |
| 0            | 24           | 72  | 0          | 0 |
| 0            | 94           | 280 | 0          | 0 |

| DESCRIPTION              | CY   |   |
|--------------------------|------|---|
|                          | P    | F |
| SUBSOIL EXCAVATION       | 0    |   |
| TOTAL REGULAR EXCAVATION | 3219 |   |
| TOTAL EMBANKMENT         | 4097 |   |

| SUBSOIL EXC. | REGULAR EXC. |   | EMBANKMENT |   |
|--------------|--------------|---|------------|---|
|              | A            | V | A          | V |
| 0            | 92           | 0 | 0          | 0 |
| 0            | 80           | 0 | 0          | 0 |
| 0            | 105          | 0 | 0          | 0 |
| 0            | 232          | 0 | 0          | 0 |



| DESIGNED BY   | MR                        | DATE | 05/01/09 | REVISION DESCRIPTION & DATE | BY  | NO. |
|---------------|---------------------------|------|----------|-----------------------------|-----|-----|
| CHECKED BY    | PS                        | DATE | 05/01/09 | ...                         | ... | ... |
| DRAWN BY      | KR                        | DATE | 05/01/09 |                             |     |     |
| CHECKED BY    | LS                        | DATE | 05/01/09 |                             |     |     |
| SUPERVISED BY | DAVID O. THEUNG, PE 44786 |      |          |                             |     |     |



**CANAL ROAD PIPING  
FINAL DESIGN**  
FROM 24TH STREET EAST TO 29TH STREET EAST  
MANATEE COUNTY, FLORIDA



|                       |                    |
|-----------------------|--------------------|
| ENGINEER              | Proj. No. 6067300  |
|                       | Dwg. Date 05/01/09 |
| <b>CROSS SECTIONS</b> |                    |

# STORM WATER POLLUTION PREVENTION PLAN/BEST MANAGEMENT PRACTICES

| OWNER'S REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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     | SPILL CONTROL PRACTICES |             |      |         |                          |  |     |                   |  |            |        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <p><b>SITE DESCRIPTION</b></p> <p><b>PROJECT NAME AND LOCATION:</b><br/>CANAL ROAD DRAINAGE CANAL BETWEEN 24TH STREET EAST AND 29TH STREET EAST PALMETTO, FL 34220</p> <p><b>OWNER NAME AND ADDRESS:</b><br/>MANATEE COUNTY<br/>1222 26TH AVENUE EAST<br/>BRADWATER, FL 34208</p> <p><b>DESCRIPTION:</b><br/>THIS PROJECT WILL CONSIST OF:<br/>IN THE PROPOSED CONDITION THE EXISTING DITCH SYSTEM AND EXISTING 40" CONVEYANCE PIPE BETWEEN STATIONS 228+00 AND 240+22 WILL BE REPLACED BY DUAL 36" X 40" ELLIPTICAL PIPES WITH SHALLOW SWALE SYSTEM ABOVE THEM. DITCH BOTTOM INLETS WILL BE PLACED AT ALL THE CROSS DRAINS TO COLLECT THE INCOMING FLOWS AND FROM BOTH THE CROSS DRAINS AND SWALE SYSTEM ABOVE THE PIPES. THE CONTRIBUTING BASINS FOR BOTH THE MODELED EXISTING CONDITION AND PROPOSED CONDITION WERE DONE USING SURFACE AREAS. CONTRIBUTING FLOWS, HYDRAULIC GRADE LINES AND DISCHARGE TO THE BOUNDARY CONDITIONS WERE MODELED IN CMAA STORM FOR BOTH THE POST AND PREDEVELOPMENT CONDITIONS.</p> <p><b>SOIL DISTURBING ACTIVITIES WILL INCLUDE:</b><br/>CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING, EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND RETENTION PONDS</p> <p><b>SOILS:</b><br/>SEE ATTACHED DRAINAGE REPORT</p> <p><b>SITE MAPS:</b><br/>SEE ATTACHED DRAINAGE REPORT</p> <p><b>SEE ATTACHED CONSTRUCTION PLANS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS</b></p> <p><b>SITE AREA:</b><br/>1. TOTAL AREA OF SITE = 1.5 +/- ACRES<br/>2. TOTAL IMPERVIOUS AREA OF SITE = NO NEW IMPERVIOUS AREA PROPOSED</p> <p><b>NAME OF RECEIVING WATERS:</b> CARR DRAIN TO MANATEE RIVER</p> | <p><b>GENERAL</b></p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENT OUTLINED BELOW AND THESE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. PENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM, PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p><b>SEQUENCE OF MAJOR ACTIVITIES:</b></p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>INSTALL STABILIZED CONSTRUCTION ENTRANCE</li> <li>INSTALL SILT FENCES, TURBIDITY BARRIERS AND HAY BALES AS REQUIRED</li> <li>CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</li> <li>CONSTRUCTION SEDIMENTATION BASIN</li> <li>CONTINUE CLEARING AND GRUBBING</li> <li>STOCK PILE TOP SOIL IF REQUIRED PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</li> <li>STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE</li> <li>INSTALL UTILITIES, STORM SEWER, CURBS &amp; CUTTERS</li> <li>APPLY BASE TO PARKING AREA</li> <li>COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</li> <li>COMPLETE FINAL PAVING</li> <li>REMOVE ACCUMULATED SEDIMENT FROM BASINS</li> <li>WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE E SITE IS STABILIZED, REMOVE ALL TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</li> </ol> <p><b>TIMING OF CONTROLS/MEASURES</b></p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, TURBIDITY BARRIERS AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRUBBING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.</p> <p><b>CONTROLS</b></p> <p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN IN THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p><b>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</b></p> <ol style="list-style-type: none"> <li><b>SYNTHETIC BALE BARRIER:</b> SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:             <ol style="list-style-type: none"> <li>WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>IN MAJOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> <li>WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS</li> <li>EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LINE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.</li> </ol> </li> <li><b>FILTER FABRIC BARRIER:</b> FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:             <ol style="list-style-type: none"> <li>WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>IN MAJOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> </ol> </li> <li><b>BRUSH BARRIER WITH FILTER FABRIC:</b> BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</li> <li><b>LEVEL SPREADER:</b> A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL RECONCENTRATE AFTER RELEASE.</li> <li><b>STOCKPILING MATERIAL:</b> NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</li> <li><b>EXPOSED AREA LIMITATION:</b> THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</li> <li><b>INLET PROTECTION:</b> INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</li> <li><b>TEMPORARY SEEDING:</b> AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDING WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</li> <li><b>TEMPORARY SEEDING AND MULCHING:</b> SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</li> </ol> <p><b>OTHER CONTROLS</b></p> <p><b>WASTE DISPOSAL</b></p> <p><b>WASTE MATERIALS</b></p> <p>ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE CAPTURED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p><b>HAZARDOUS WASTE</b></p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p><b>SANITARY WASTE</b></p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p><b>INVENTORY FOR POLLUTION PREVENTION PLAN</b></p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION:</p> <table border="1" style="width: 100%;"> <tr> <td>CONCRETE</td> <td>FERTILIZERS</td> <td>WOOD</td> </tr> <tr> <td>ASPHALT</td> <td>PETROLEUM BASED PRODUCTS</td> <td></td> </tr> <tr> <td>TAR</td> <td>CLEANING SOLVENTS</td> <td></td> </tr> <tr> <td>DETERGENTS</td> <td>PAINTS</td> <td></td> </tr> </table> <p><b>SPILL PREVENTION</b></p> <p><b>MATERIAL MANAGEMENT PRACTICES</b></p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> | CONCRETE                | FERTILIZERS | WOOD | ASPHALT | PETROLEUM BASED PRODUCTS |  | TAR | CLEANING SOLVENTS |  | DETERGENTS | PAINTS |  | <p><b>GOOD HOUSEKEEPING</b></p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <ul style="list-style-type: none"> <li>AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</li> <li>ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</li> <li>PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</li> <li>SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</li> <li>WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</li> <li>MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</li> <li>THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</li> </ul> <p><b>HAZARDOUS PRODUCTS</b></p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> <li>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</li> <li>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</li> <li>IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND/OR STATE RECOMMENDED METHOD FOR PROPER DISPOSAL WILL BE FOLLOWED.</li> </ul> <p><b>PRODUCT SPECIFIC PRACTICES</b></p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p><b>PETROLEUM PRODUCTS</b></p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p><b>FERTILIZERS</b></p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAG OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p><b>PAINTS</b></p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p><b>CONCRETE TRUCKS</b></p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p><b>SPILL CONTROL PRACTICES</b></p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILLS IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p><b>CONTRACTOR'S CERTIFICATION</b></p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIES AS PART OF THIS CERTIFICATION.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>SIGNATURE</th> <th>BUSINESS NAME AND ADDRESS OF CONTRACTOR &amp; ALL SUBS</th> <th>RESPONSIBLE FOR/DUTIES</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>GENERAL CONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>OWNER REPRESENTATIVE</td> </tr> </tbody> </table> <p style="text-align: right;">Contractor Note</p> <p style="text-align: right;">Prior to construction, CONTRACTOR WILL INSTALL BMP DEVICES, SILT FENCE, HAY BALE, TURBIDITY BARRIERS, ETC., ALONG R/W AS PART OF THE POLLUTION PREVENTION PLAN FOR APPLICABLE AGENCY APPROVAL.</p> <p style="text-align: right;">Wayne Roberts, P.E.<br/>Deputy Director/Engineering</p> <p style="text-align: right;">Date _____</p> | SIGNATURE | BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS | RESPONSIBLE FOR/DUTIES |  |  | GENERAL CONTRACTOR |  |  | SUBCONTRACTOR |  |  | SUBCONTRACTOR |  |  | SUBCONTRACTOR |  |  | OWNER REPRESENTATIVE |
| CONCRETE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| SUPERVISED BY | DAVID O. THEUNE, PE 44786 |      |          |

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**CANAL ROAD PIPING  
FINAL DESIGN**

FROM 24TH STREET EAST TO 29TH STREET EAST  
MANATEE COUNTY, FLORIDA



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| ENGINEER                                            | Proj. No. 6067300  |
|                                                     | Dwg. Date 05/01/09 |
| <b>STORMWATER<br/>POLLUTION<br/>PREVENTION PLAN</b> |                    |