

CONSTRUCTION PLANS FOR NORTH KIMBREL AVENUE DRAINAGE IMPROVEMENTS

PREPARED FOR:
CITY OF CALLAWAY
BAY COUNTY, FLORIDA



CITY OFFICIALS:

Mayor: Thomas W. Abbott

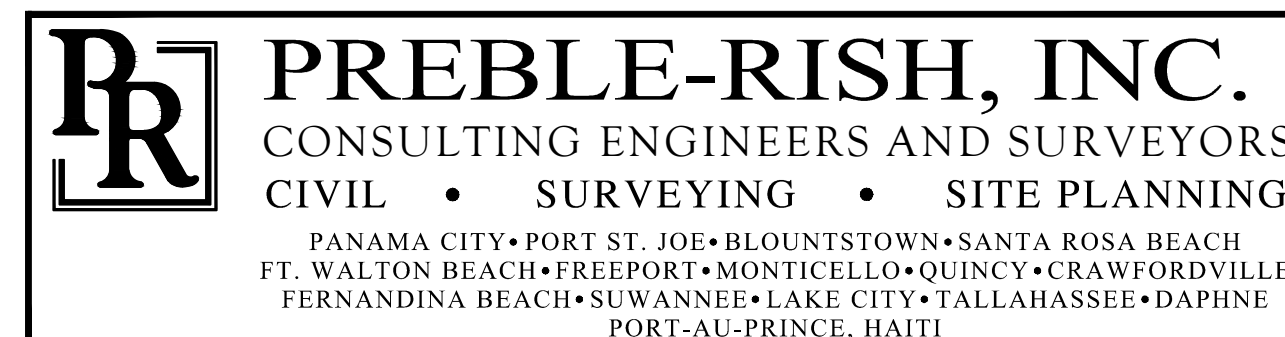
Ward 1 Commissioner: Melba Covey

Ward 2 Commissioner: Pamn Henderson

Ward 3 Commissioner: Bob Pelletier

Ward 4 Commissioner: Ralph Hollister

PREPARED BY:



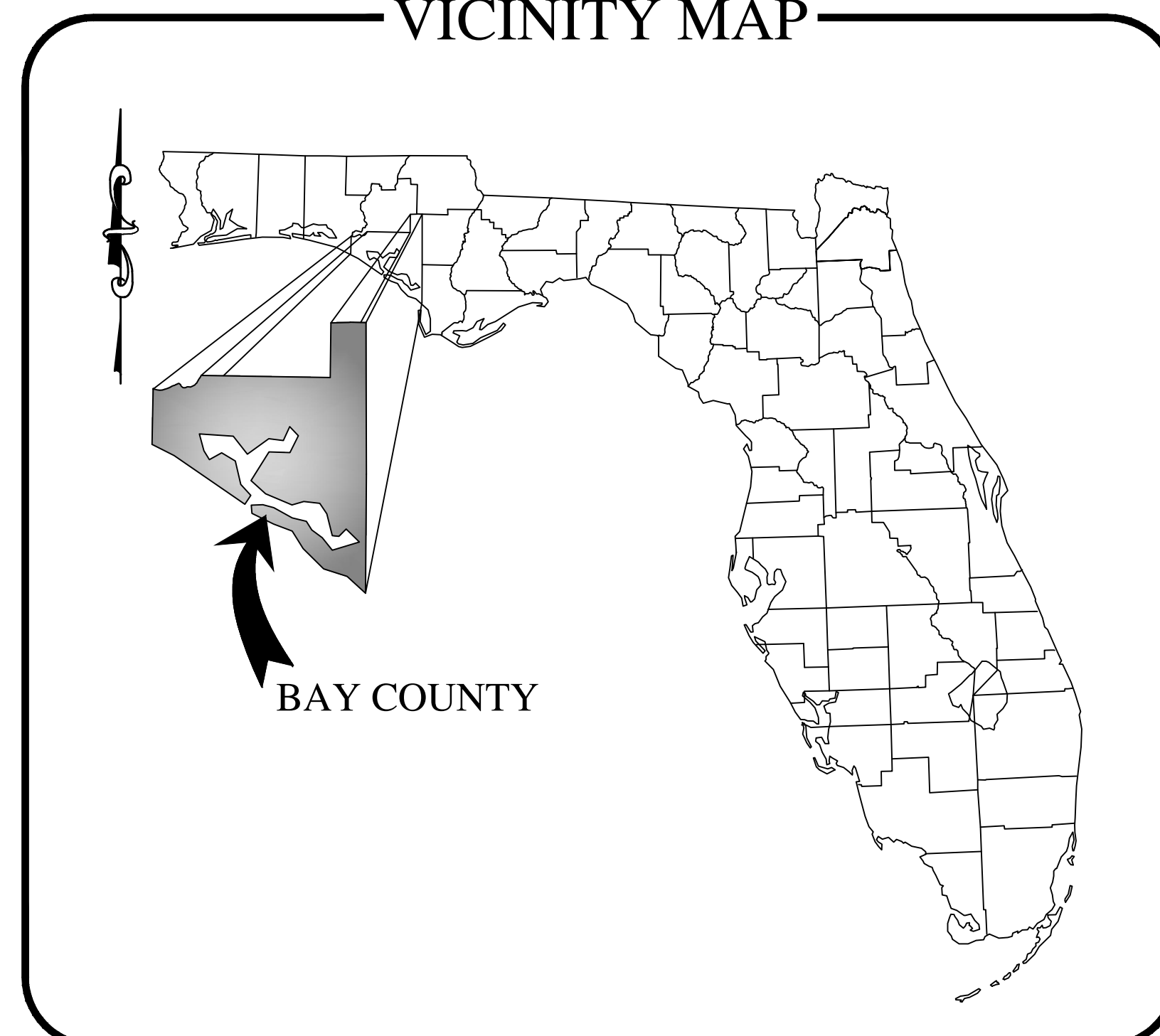
PROJECT NUMBER - 220.018
JUNE 2015

**100%
SUBMITTAL**

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED
2014, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2010, AND THE MANUAL OF UNIFORM MINIMUM
STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR
STREETS AND HIGHWAYS DATED 2011 (FLORIDA GREENBOOK), AS
AMENDED BY CONTRACT DOCUMENTS.

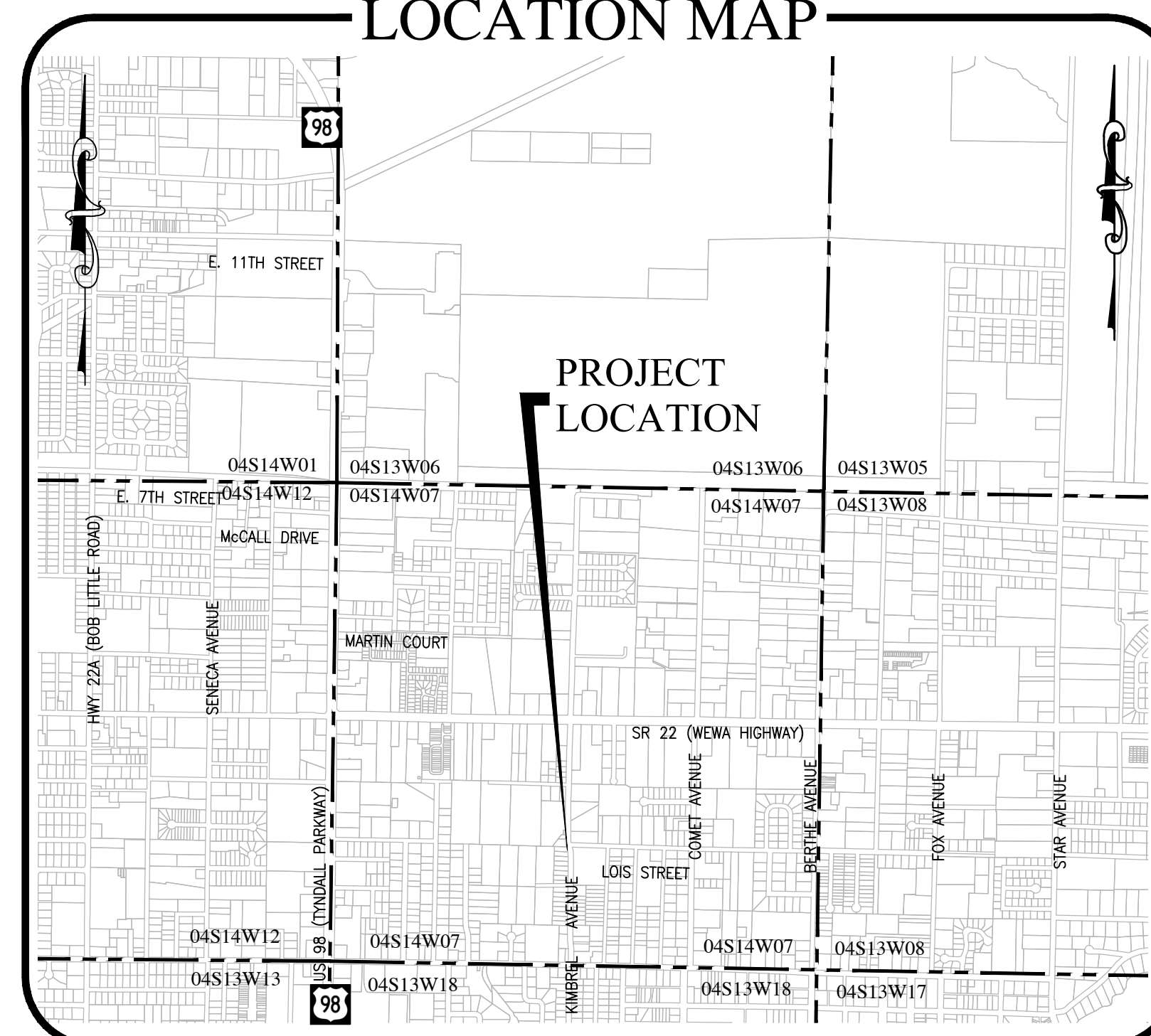
SHOP DRAWINGS TO BE SUBMITTED TO:
J. SKLARSKI, P.E.
PREBLE-RISH, INC.
203 ABERDEEN PARKWAY
PANAMA CITY, FL 32405

VICINITY MAP



ENGINEER OF RECORD: JONATHAN SKLARSKI, P.E.

LOCATION MAP



PROJECT MANAGER: MICHAEL FULLER

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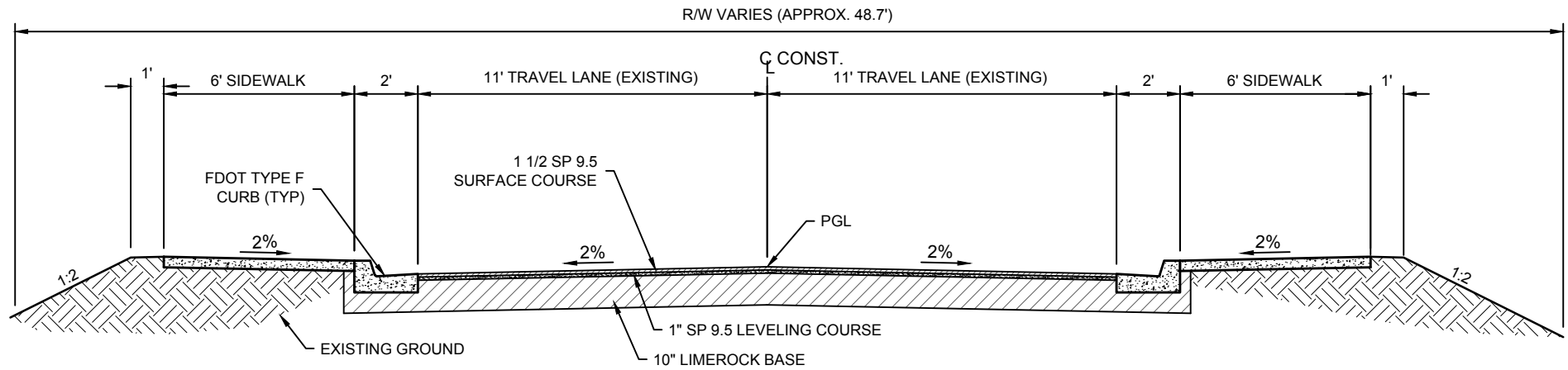
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GENERAL NOTES:

- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
- SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED. WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (800-432-4770) AND UTILITY OWNERS LISTED BELOW AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. THE CONTRACTOR SHALL WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT THE MARKS DURING CONSTRUCTION. IF THE MARKS ARE DESTROYED, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL FLORIDA AGAIN. THE CONTRACTOR SHALL DIG SAFELY, USING EXTREME CAUTION, WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.

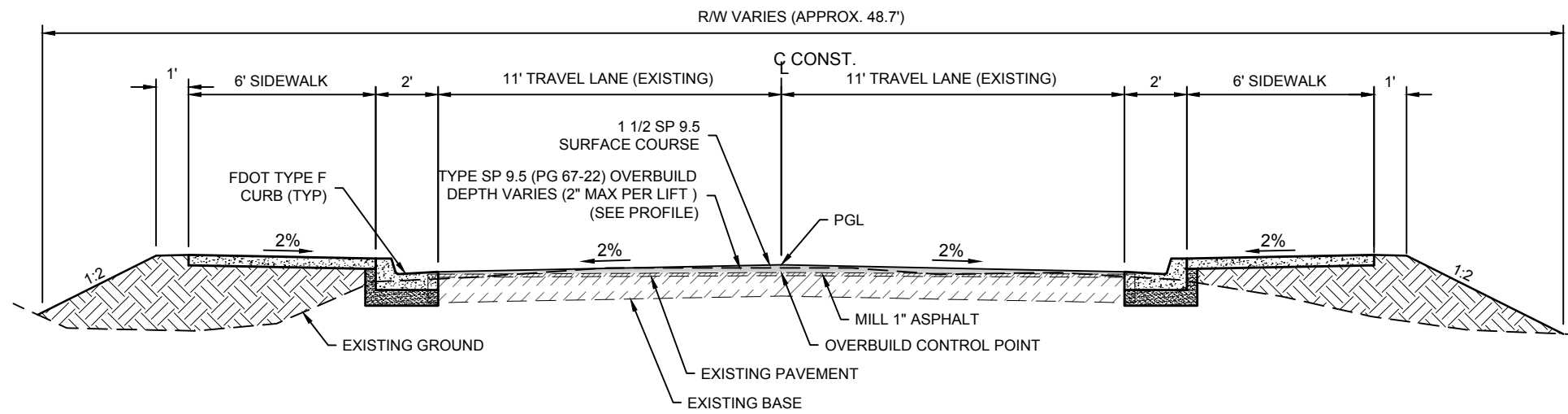
OWNER	CONTACT	PHONE	EMAIL
BAY COUNTY	WAYNE COMEAU	850-784-4071	wcomeau@baycounttyfl.gov
BAY COUNTY	CURT MILLER	850-248-5010	cmiller@baycounttyfl.gov
CITY OF CALLAWAY	OSCAR MARTINEZ	850-871-1033	omartinez@cityofcallaway.com
WOW	RANDALL HAIRSTON	850-527-1225	randallhairston@wideopenwest.com
COMCAST CABLE	ED LANG	850-258-9526	ed_lang@comcast.net
SOUTHERN LIGHT	JASON WEILER	251-269-5129	jweiler@slfber.com
GULF POWER	KENNY DOUGLAS	850-505-5567	kidougl@southernco.com
AT&T DISTRIBUTION	HAL HINOTE	850-913-3709	hh3178@att.com
TECO GAS	MICHAEL MCGUIRE	850-914-6129	mkmcguire@tecoenergy.com
SOUTHERN DIVERSIFIED TECHNOLOGIES	STEVE HAMER	601-832-9440	shamer@sdt-1.com

- THE PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE.
- ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT PAVED WITH SIDEWALK SHALL BE RESTORED WITH SOD TO A CONDITION EQUAL TO OR SUPERIOR TO THAT EXISTING PRIOR TO COMMENCEMENT OF WORK.
- ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.
- THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.
- THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION (STREET SIGNS) VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL IMMEDIATELY BE REPORTED TO THE CONSTRUCTION PROJECT ADMINISTRATOR WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE FDOT DISTRICT 3 CONTAMINATION IMPACTS COORDINATOR (DCIC) OF DISCOVERY. THE DCIC ADMINISTRATOR WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE CONSTRUCTION PROJECT ADMINISTRATOR. THE DCIC WILL ADVISE THE CONSTRUCTION PROJECT ADMINISTRATOR.
- THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
- ALL PROPOSED CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARDS AND ADA REQUIREMENTS.
- ALL ADA DETECTABLE WARNING MATS (DWM) SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP AND EXTEND 2 FT. FROM THE TOE OF THE CURB RAMP. ALL DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH FDOT INDEX 304 AND SPECIFICATION 527, COLOR SAFETY YELLOW. ALL ADA DETECTABLE WARNING SYSTEMS MUST BE ON THE FDOT APPROVED PRODUCTS LIST.
- ALL FILL MATERIAL SHALL BE SELECT FILL.
- CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS, IF THEIR LANDSCAPING IS TO BE REMOVED, TO COORDINATE THE REMOVAL AND POSSIBLE RELOCATION.
- DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY NECESSARY NPDES PERMIT.
- END OF CURBS SHALL TRANSITION FROM FULL TO ZERO HEIGHT OVER 6 FEET UNLESS OTHERWISE SPECIFIED AS A CURB RAMP.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
- SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
- ALL SIGNAGE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED BY CONTRACTOR ACCORDING TO FDOT STANDARDS.
- REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS: MILLING AND/OR ASPHALT OVERLAY, SAND OR WATER BLASTING, OR OTHER MEANS APPROVED BY THE PROJECT ADMINISTRATOR. GRINDING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
- ALL PROPOSED STRIPING AND MESSAGES SHALL BE THERMOPLASTIC. THERMOPLASTIC IS TO BE USED FOR FINAL STRIPING ONLY. INTERMEDIATE STRIPING SHALL BE PAINTED.
- ALL PROPOSED INLETS SHALL HAVE 6" SUMP BOTTOMS (12" DIA.) PER FDOT INDEX 201.
- ALL MAILBOXES IMPACTED BY CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH FDOT INDEX 532.



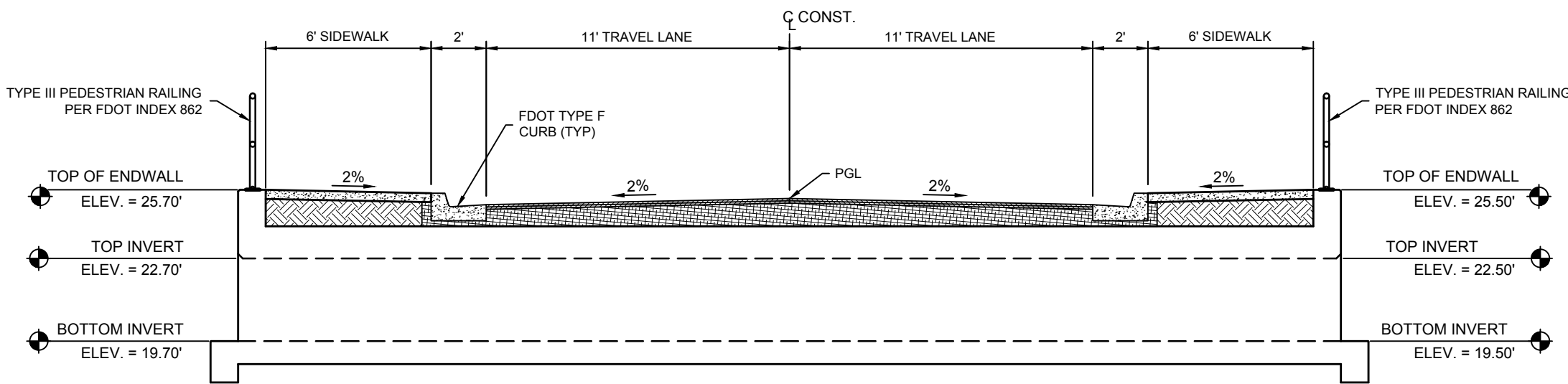
TYPICAL SECTION - NORTH KIMBREL AVENUE FULL DEPTH REPLACEMENT

SCALE: N.T.S.
STATION 1+83.08 TO 2+57.59



TYPICAL SECTION - NORTH KIMBREL AVENUE OVERBUILD

SCALE: N.T.S.
STATION 1+16.79 TO 1+83.08
STATION 2+57.59 TO 3+41.19



TYPICAL SECTION - BOX CULVERT

SCALE: N.T.S.
STATION 2+19

GENERAL NOTES-TYPICAL SECTIONS

NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA

PREBLE-RISH INC.
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

SCALE: N.T.S.
DESIGNED: JMS
DRAWN: jdm/BWR
CHECKED: JMS
DATE: JUNE 2015

NOT APPROVED UNLESS DRAWING WITH PROFESSIONAL ENGINEER'S SEAL

PERSON:

APPR:

DATE

NO.

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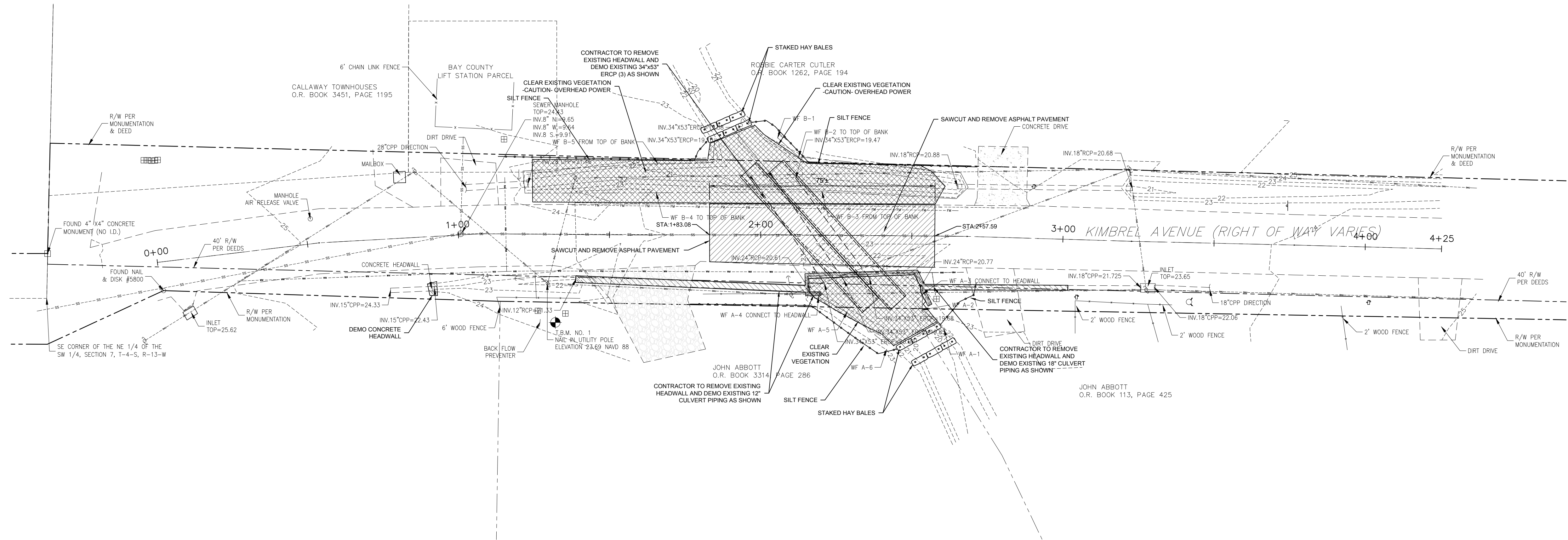
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PROJECT NO.
220.018

SHEET
C1

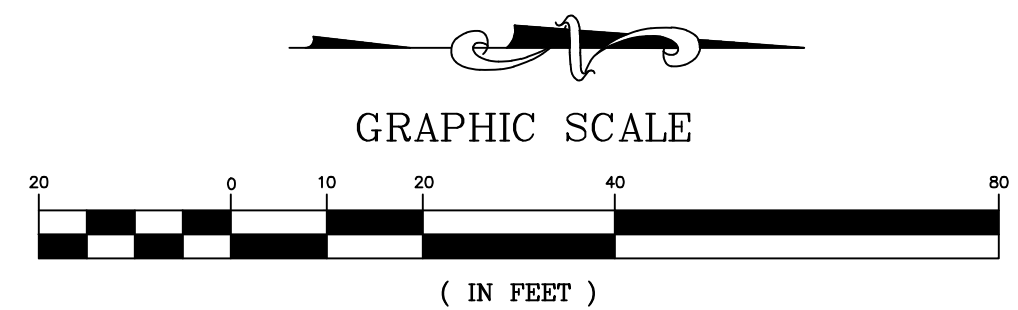
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WARNING: GAS MAIN IN AREA OF CONSTRUCTION



LEGEND

- STRUCTURES, PIPES, AND PAVEMENT DEMOLITION
- VEGETATION DEMOLITION



EROSION CONTROL & DEMO PLAN
NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA

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203 ABERDEEN PKWY, PANAMA CITY, FL 32405
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SCALE: 1"=20'
DESIGNED: JMS
DRAWN: jdm/BWR
CHECKED: JMS
DATE: JUNE 2015

NOT APPROVED UNLESS DRAWING WITH PROFESSIONAL ENGINEER'S SEAL

NO.	DATE	APPR.
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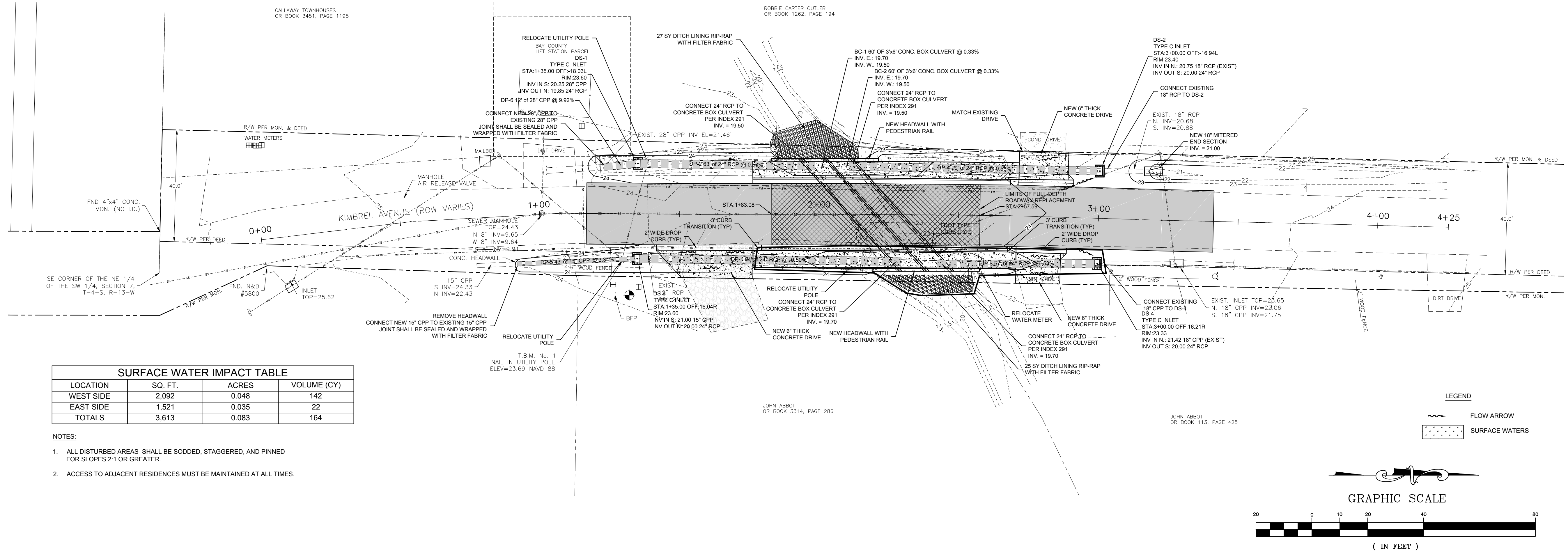
PERSON:

ELIZABETH S. MOORE 57607
JONATHAN SKLARSKI 67361
ALAN WISE 70331

PROJECT NO.
220.018

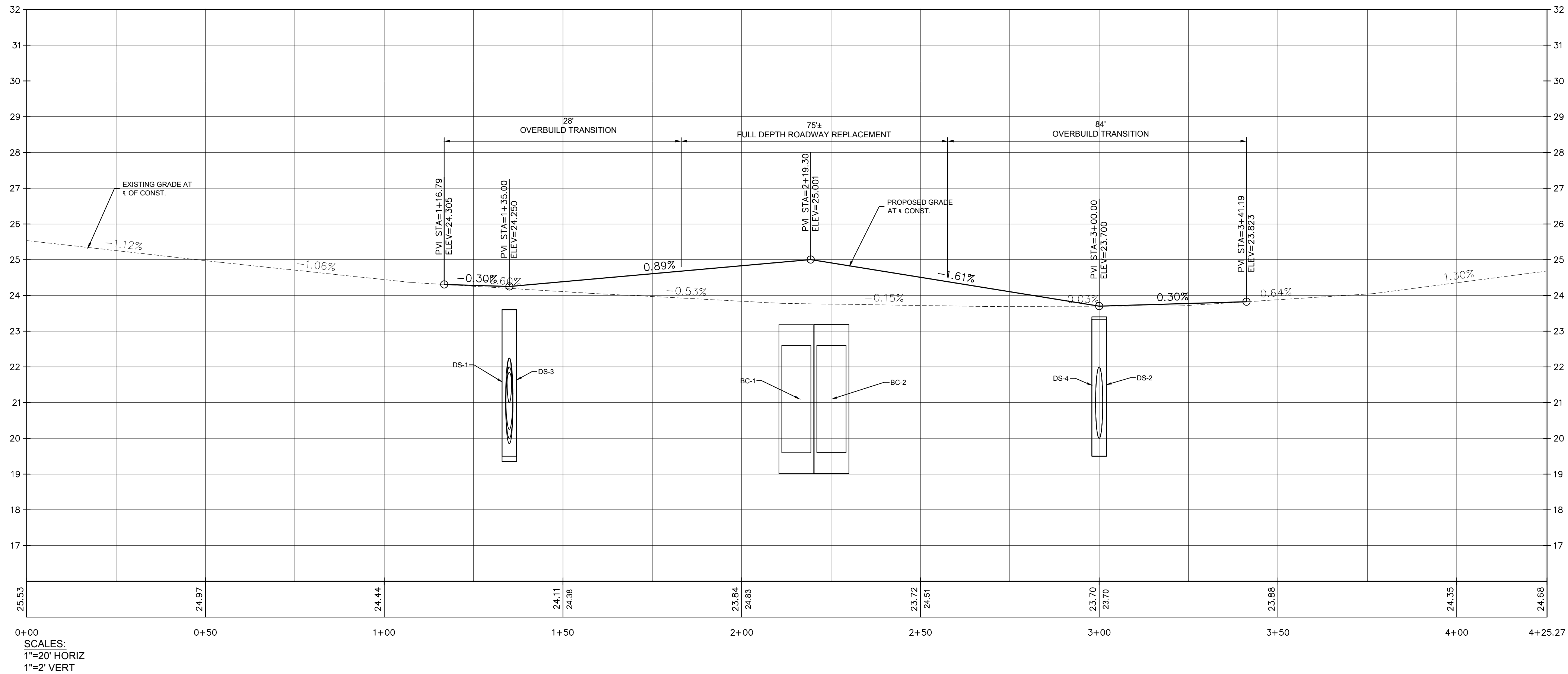
SHEET
C2

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SURFACE WATER IMPACT TABLE			
LOCATION	SQ. FT.	ACRES	VOLUME (CY)
WEST SIDE	2,092	0.048	142
EAST SIDE	1,521	0.035	22
TOTALS	3,613	0.083	164

- NOTES:
- ALL DISTURBED AREAS SHALL BE SOODED, STAGGERED, AND PINNED FOR SLOPES 2:1 OR GREATER.
 - ACCESS TO ADJACENT RESIDENCES MUST BE MAINTAINED AT ALL TIMES.



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PLAN & PROFILE
NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA

PROJECT NO.
220.018

SHEET
C3

SCALE: 1"=20'

DESIGNED: JMS

DRAWN: jdm/BWR

CHECKED: JMS

DATE: JUNE 2015

PERSON:

NO. DATE APPR.

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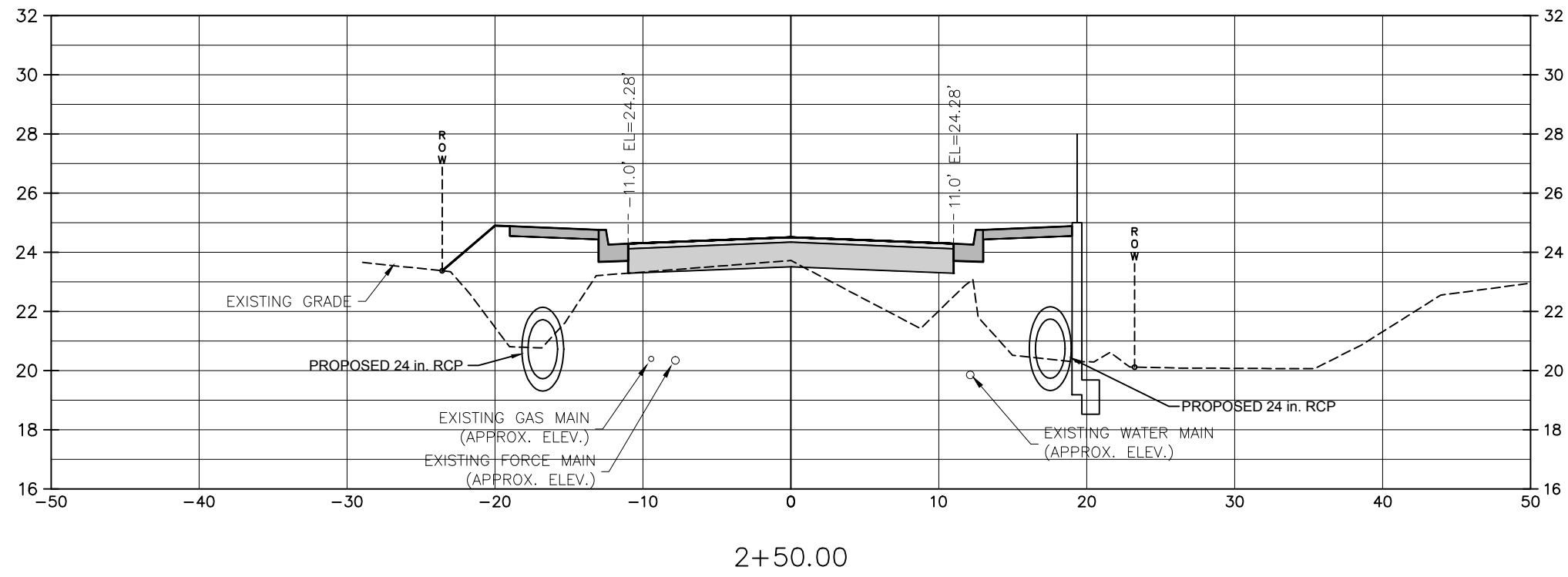
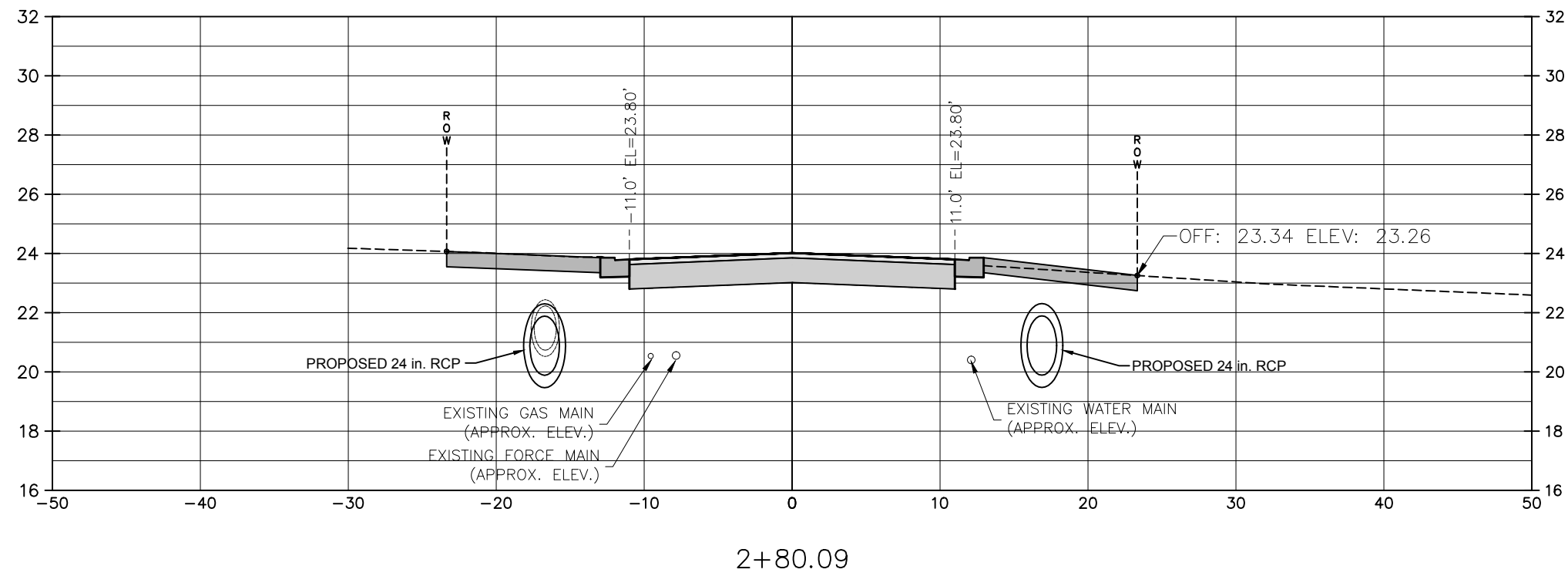
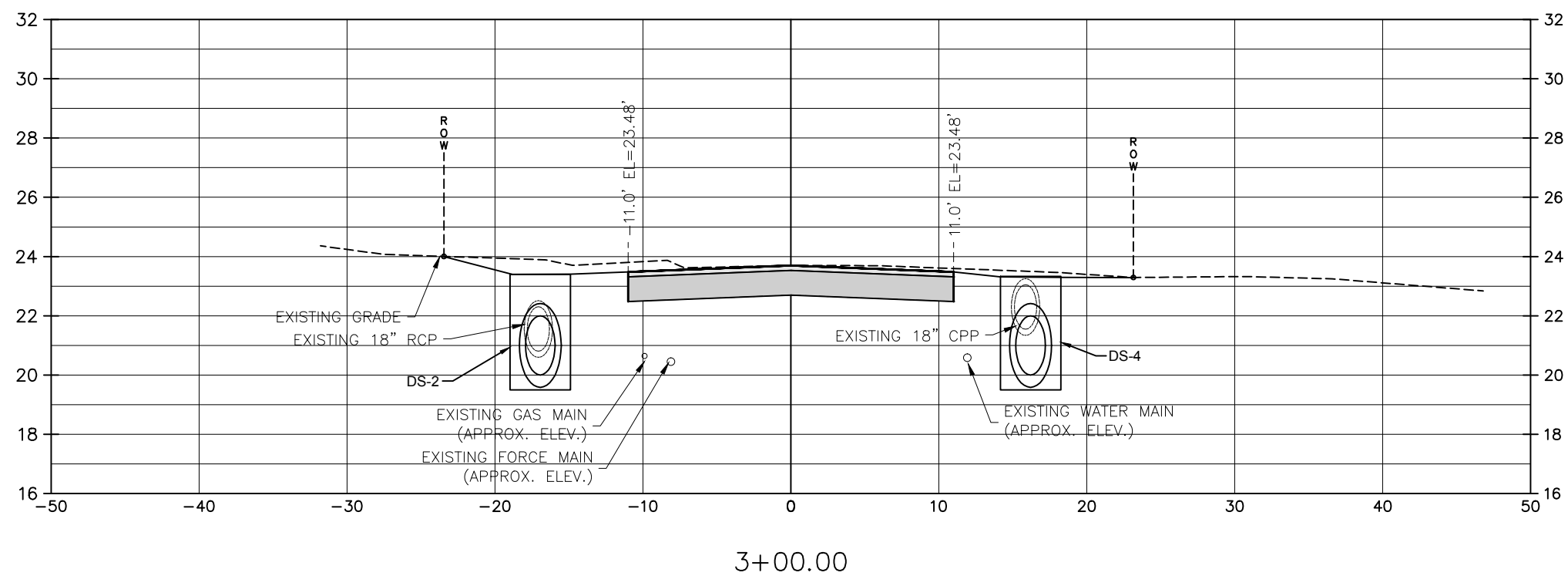
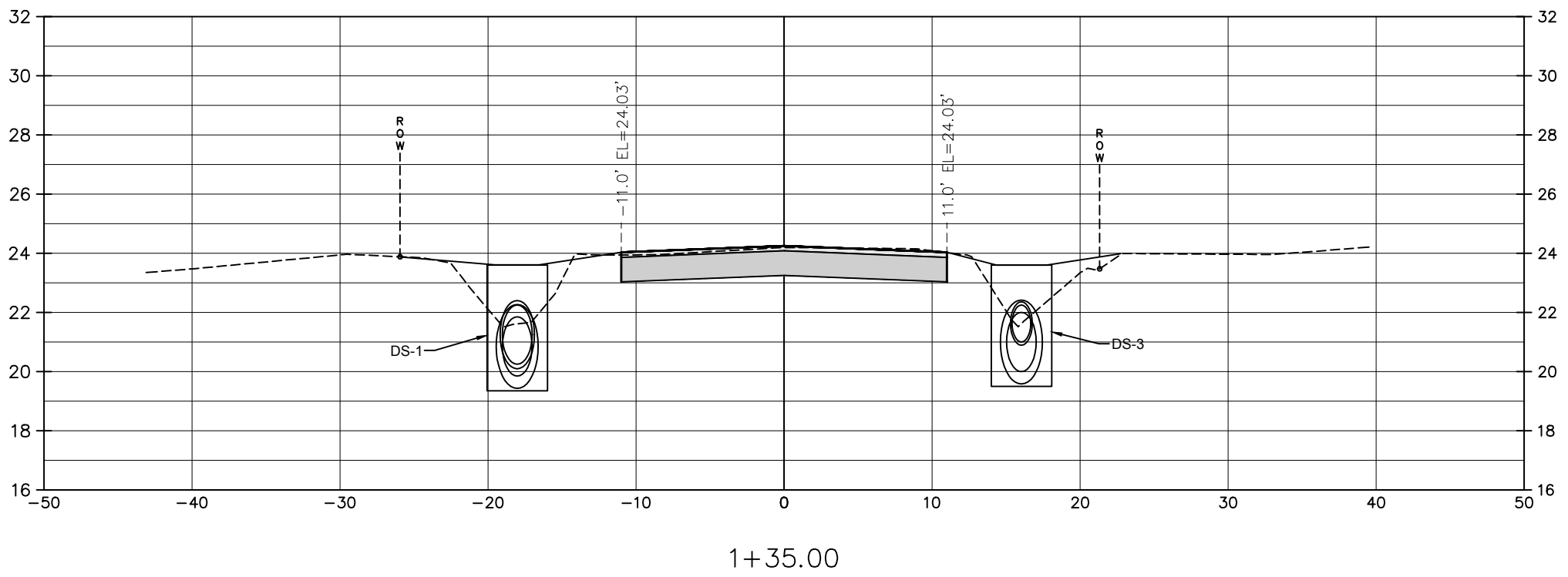
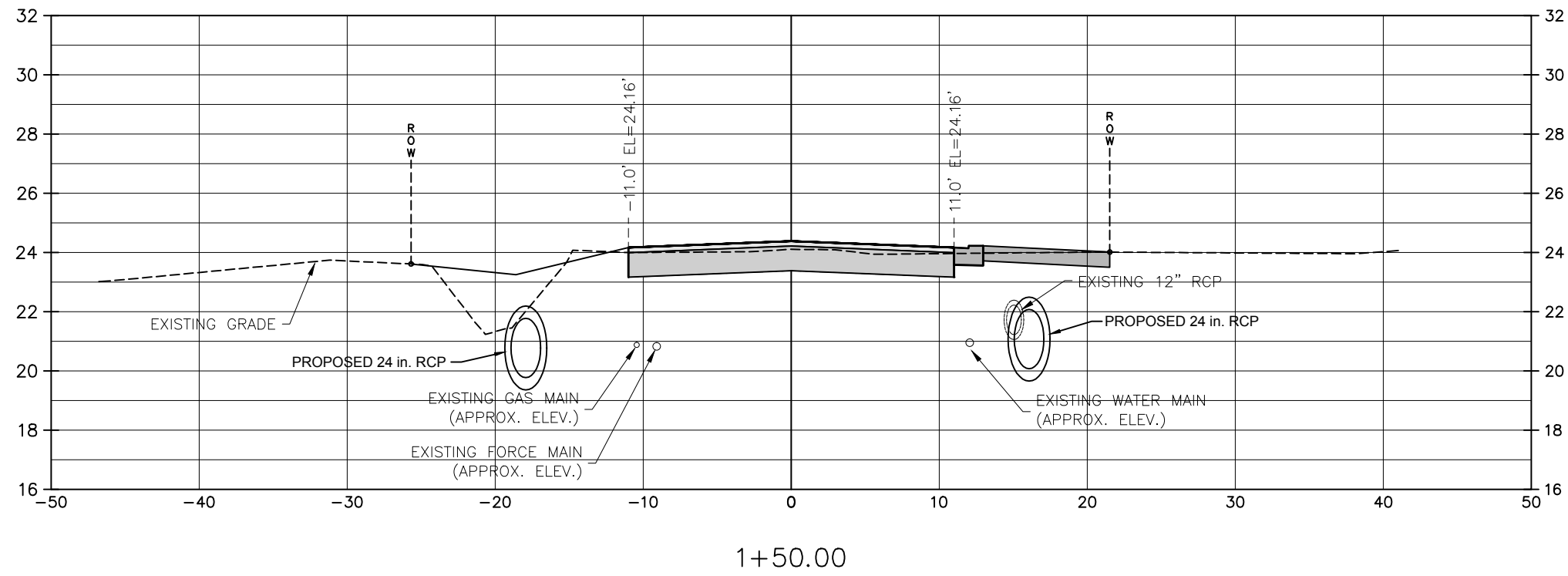
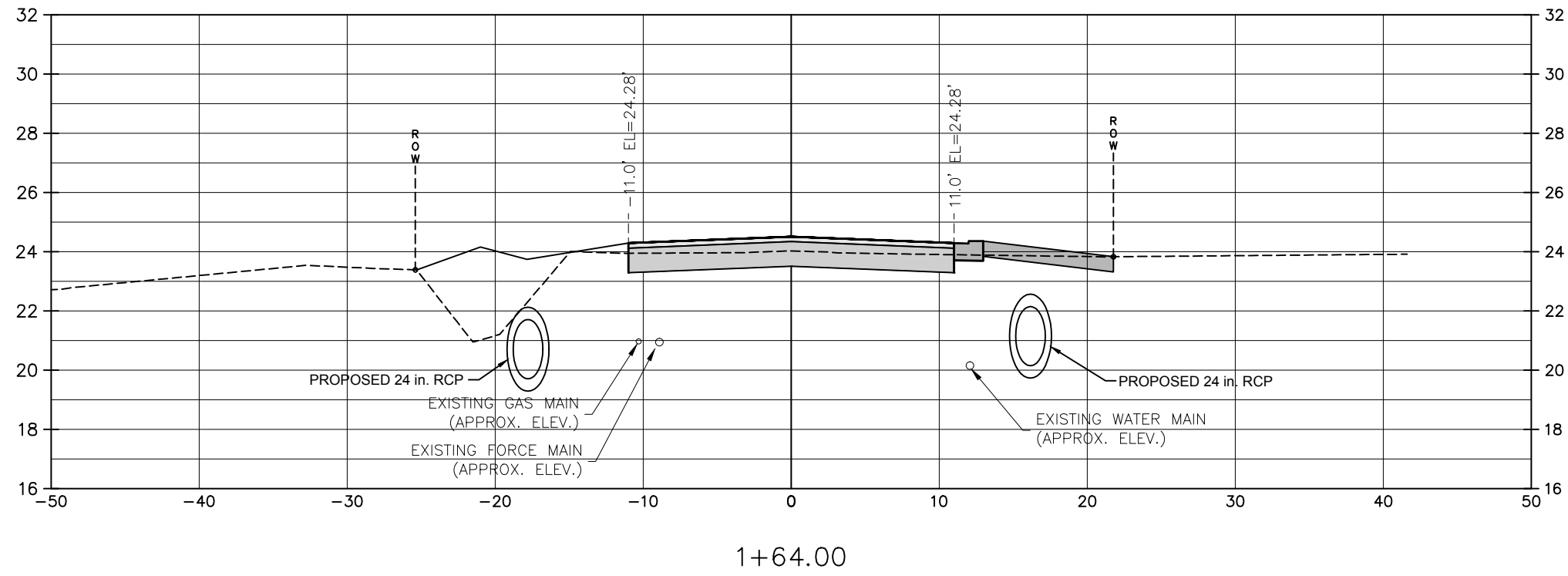
ELIZABETH S. MOORE 5/16/07

JONATHAN SHAPIRO 6/7/01

ALAN WISE 7/03/11

EB 0006155

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SCALES:
1"=10' HORIZ
1"=5' VERT

PREBLE-RISH INC

CONSULTING ENGINEERS AND SURVEYORS

CIVIL • SURVEYING • SITE PLANNING

203 ABERDEEN PKWY, PANAMA CITY, FL 32405

(850) 522-0644

SCALE:
AS SHOWN

DESIGNED:
JMS

DRAWN:
jdm/BWR

CHECKED:
JMS

DATE:
JUNE 2015

CROSS SECTIONS

NORTH KIMBREL AVENUE DRAINAGE

CITY OF CALLAWAY

BAY COUNTY

FLORIDA

PROJECT NO.
220.018

SHEET
C4

NOT APPROVED UNLESS DRAWING WITH PROFESSIONAL ENGINEER'S SEAL

NO. DATE APPR.

1 2 3 4 5 6 7

ELIZABETH S. MOORE 57607

JONATHAN SALASARI 67361

PERSON:

EB 0006155

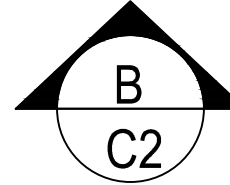
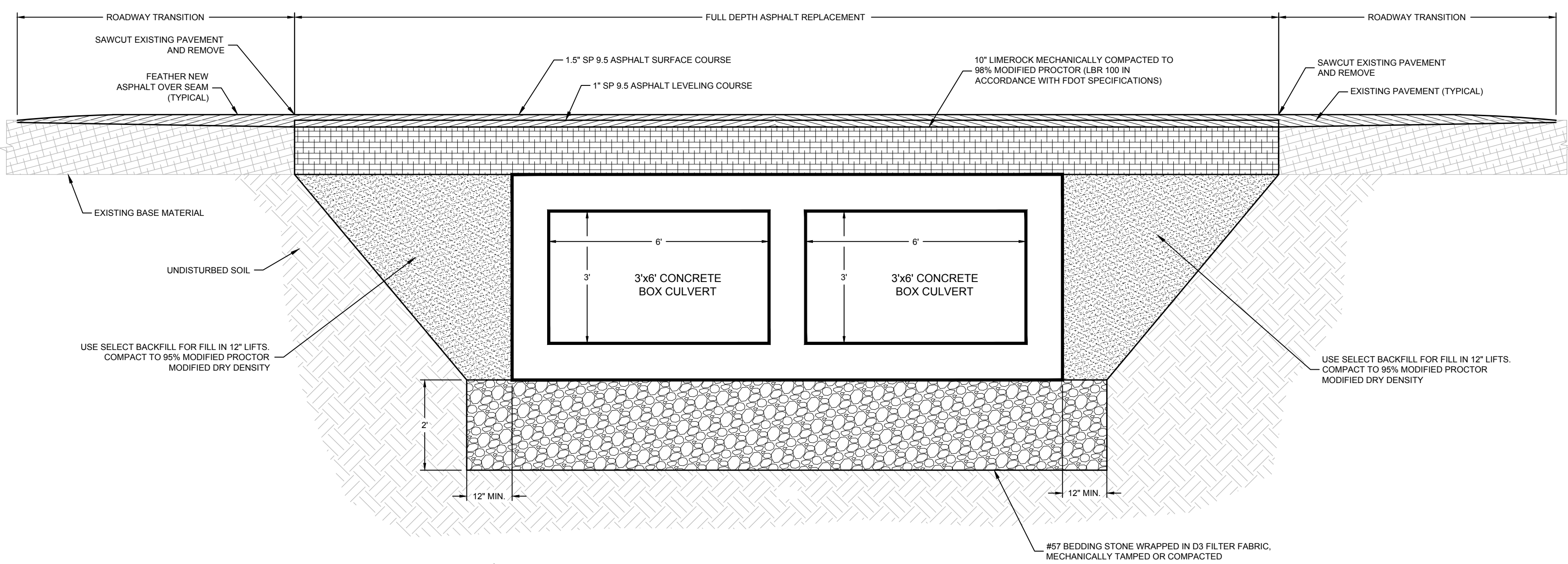
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K:\20018 KIMBREL AVE DRAINAGE\CIVIL\3DFOLDER_PRODUCTION\220018 DETAILS.DWG

EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 62-3, 62-12, AND/OR 62-346, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121- 403.161 FLORIDA STATUTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL. UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEMS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, SYNTHETIC BALES, SILT FENCES, AND TURBIDITY BARRIERS.
- TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS.
- PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 570 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.
- GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 2:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.
- GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 2:1. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (SYNTHETIC BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING FOR STORM EVENTS DURING CONSTRUCTION AND ALL OTHER MEASURES NEEDED TO MAINTAIN FLOW AND PREVENT FLOODING.
- AS CONDITIONS WARRANT AND AS NEEDED FOR ADEQUATE EROSION CONTROL, CONTRACTOR SHALL USE ADDITIONAL MEASURES ABOVE THOSE SPECIFIED HEREIN.

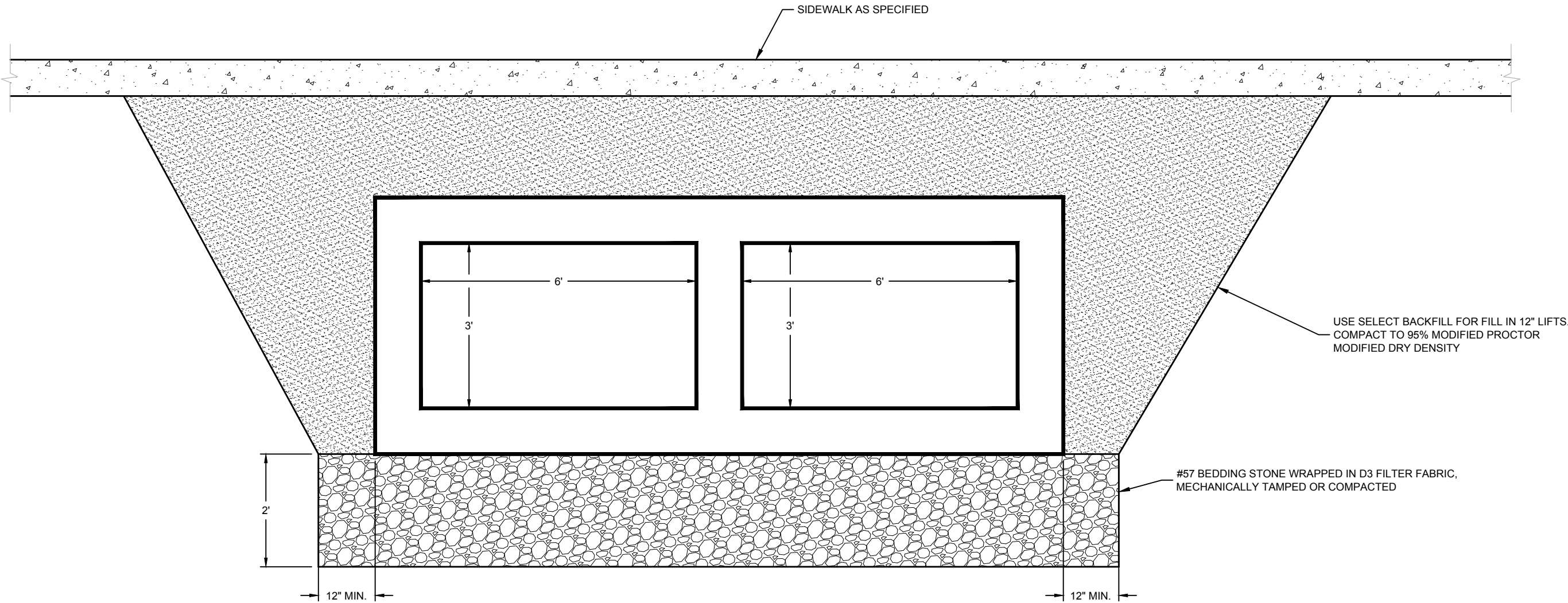
STORMWATER SYSTEM MAINTENANCE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MONITORING AND NOTICE OF COMMENCEMENT.
- CONTRACTOR SHALL PREPARE A DEWATERING AND STOCKPILE PLAN AS PART OF THE NPDES PERMIT PROCESS.
- CITY OF CALLAWAY TO MAINTAIN STORMWATER SYSTEM UPON COMPLETION AND ACCEPTANCE OF THE PROPOSED WORK.
- THE CONTRACTOR SHALL MAINTAIN FLOW CAPACITY ACROSS THE CONSTRUCTION AREA AT ALL TIMES DURING CONSTRUCTION. FLOODING OF ADJACENT AREAS WILL NOT BE PERMITTED.
- CONTRACTOR SHALL PROTECT THE WORK AREA AT ALL TIMES DURING CONSTRUCTION AND ANY DAMAGE CAUSED BY STORMS OR FLOWS ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.



SECTION B-B
SCALE: N.T.S.

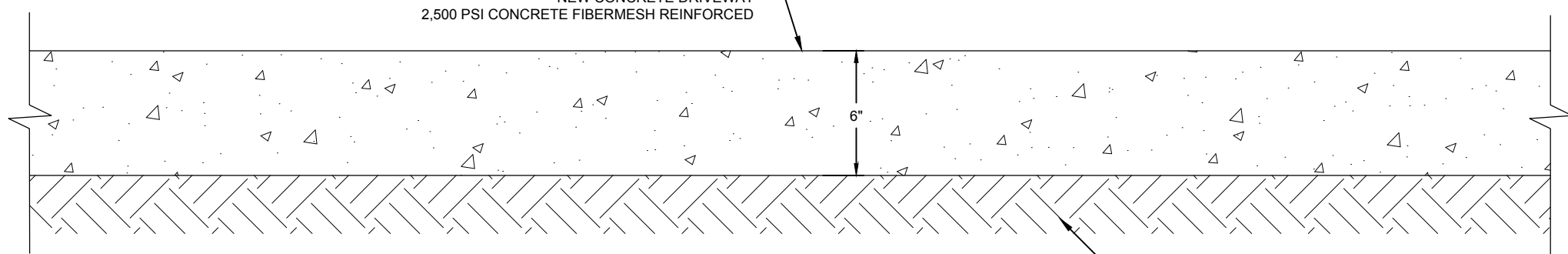
REMOVAL AND REPLACEMENT OF ASPHALT PAVING



DETAIL

3'x6' CBC BEDDING OUTSIDE OF PAVEMENT

SCALE: N.T.S.

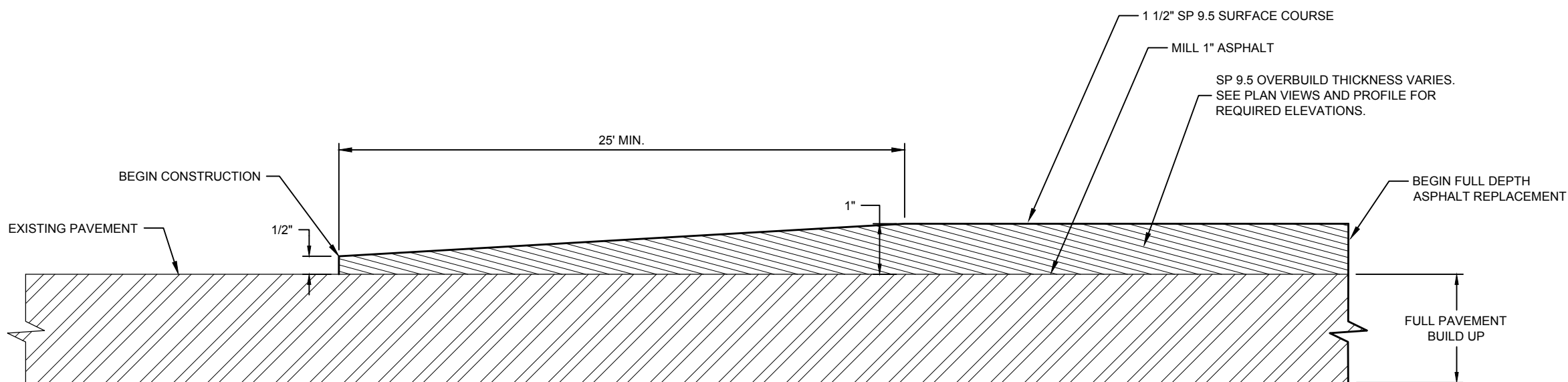


DETAIL

CONCRETE DRIVEWAY

SCALE: N.T.S.

SUBGRADE COMPACTED TO 98%
MODIFIED PROCTOR



NOTES:

- END PROJECT DETAIL IS MIRROR IMAGE.
- SEE PLANS FOR LIMITS

DETAIL

OVERBUILD TRANSITION

SCALE: N.T.S.

DEWATERING NOTES

- THE FACILITY IS AUTHORIZED TO DISCHARGE PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY WHICH DISCHARGES BY A POINT SOURCE TO SURFACE WATERS OF THE STATE, AS DEFINED IN CHAPTER 62-620, F.A.C., ONLY IF THE REPORTED VALUES FOR THE PARAMETERS LISTED IN TABLE 1 DO NOT EXCEED ANY OF THE LISTED SCREENING VALUES. BEFORE DISCHARGE OF PRODUCED GROUND WATER CAN OCCUR FROM SUCH SITES, ANALYTICAL TESTS ON SAMPLES OF THE PROPOSED UNTREATED DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE IF CONTAMINATION EXISTS.
- MINIMUM REPORTING REQUIREMENTS FOR ALL PRODUCED GROUND WATER DISCHARGES. THE EFFLUENT SHALL BE SAMPLED BEFORE THE COMMENCEMENT OF DISCHARGE, AGAIN WITHIN THIRTY (30) DAYS AFTER COMMENCEMENT OF DISCHARGE, AND THEN ONCE EVERY SIX (6) MONTHS FOR THE LIFE OF THE PROJECT. SAMPLES SHALL BE TAKEN PRIOR TO ACTUAL DISCHARGE OR MIXING WITH THE RECEIVING WATERS. THE EFFLUENT SHALL BE SAMPLED FOR THE PARAMETERS LISTED IN TABLE 1.

Table 1

Parameter	Screening Values for Discharges into:	
	Fresh Waters	Coastal Waters
Total Organic Carbon (TOC)	10.0 mg/L	10.0 mg/L
pH, standard units	6.0 – 8.5	6.5 – 8.5
Total Recoverable Mercury	0.012 µg/L	0.025 µg/L
Total Recoverable Cadmium	9.3 µg/L	9.3 µg/L
Total Recoverable Copper	2.9 µg/L	2.9 µg/L
Total Recoverable Lead	0.03 mg/L	5.6 µg/L
Total Recoverable Zinc	86.0 µg/L	86.0 µg/L
Total Recoverable Chromium (Hex.)	11.0 µg/L	50.0 µg/L
Benzene	1.0 µg/L	1.0 µg/L
Naphthalene	100.0 µg/L	100.0 µg/L

- FOR FRESH WATERS AND COASTAL WATERS, THE PH OF THE EFFLUENT SHALL NOT BE LOWERED TO LESS THAN 6.0 UNITS FOR FRESH WATERS, OF LESS THAN 6.5 UNITS FOR COASTAL WATERS, OR RAISED ABOVE 8.5 UNITS, UNLESS NATURAL BACKGROUND DATA CONFIRMING A NATURAL BACKGROUND PH OUTSIDE OF THIS RANGE IS SUBMITTED. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE LESS THAN 6.0 UNITS FOR FRESH WATERS, OR LESS THAN 6.5 UNITS IN COASTAL WATERS, THE PH SHALL NOT VARY BELOW NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT ABOVE NATURAL BACKGROUND FOR FRESH AND COASTAL WATERS. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE HIGHER THAN 8.5 UNITS, THE PH SHALL NOT VARY ABOVE NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT BELOW NATURAL BACKGROUND OF FRESH AND COASTAL WATERS. THE CONTRACTOR SHALL INCLUDE THE NATURAL BACKGROUND PH OF THE RECEIVING WATERS WITH THE RESULTS OF THE ANALYSES LISTED IN NOTE 2. FOR PURPOSES OF THIS SECTION ONLY, FRESH WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION OF LESS THAN 1500 MG/L, AND COASTAL WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION EQUAL TO OR GREATER THAN 1500 MG/L.
- IN ACCORDANCE WITH RULE 62.302.500 (1) (A-C), F.A.C., THE DISCHARGE SHALL AT ALL TIMES BE FREE FROM FLOATING SOLIDS, VISIBLE FOAM, TURBIDITY, OR VISIBLE OIL IN SUCH AMOUNTS AS TO FORM NUISANCES ON SURFACE WATERS.
- ALL OF THE GENERAL CONDITIONS LISTED IN RULE 62-621.250, F.A.C., ARE APPLICABLE.
- THE CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE AND LOCAL REGULATORY REQUIREMENTS REGARDING DISCHARGE OF TURBID OR POLLUTED WATER.
- THE CONTRACTOR SHALL MONITOR DISCHARGE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEWATERING AND/OR WATER USE PERMITS AS NEEDED.
- CONTRACTOR IS RESPONSIBLE FOR MONITORING ADJACENT AREAS DURING DEWATERING TO ENSURE THAT GROUNDWATER DRAWDOWN DOES NOT RESULT IN DAMAGE TO ROADWAY, STRUCTURES, OR PRIVATE PROPERTY. MEASURES MAY INCLUDE PERIMETER PIEZOMETERS AND PRE-CONSTRUCTION DOCUMENTATION OF EXISTING CONDITIONS.

DETAILS

NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA



CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405

DESIGNED: JMS
DRAWN: jdm/BWR

CHECKED: JMS

DATE: JUNE 2015

SCALE: N.T.S.

NO. DATE APPR.

NOT APPROVED UNLESS SIGNED WITH PROFESSIONAL ENGINEER'S SEAL

REVISION:

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STEPHEN E. PRICE, P.E. 71146
JONATHAN SHAWHAN, P.E. 67361

ELIZABETH S. MOORE, 57067
ALAN WISE, 70331

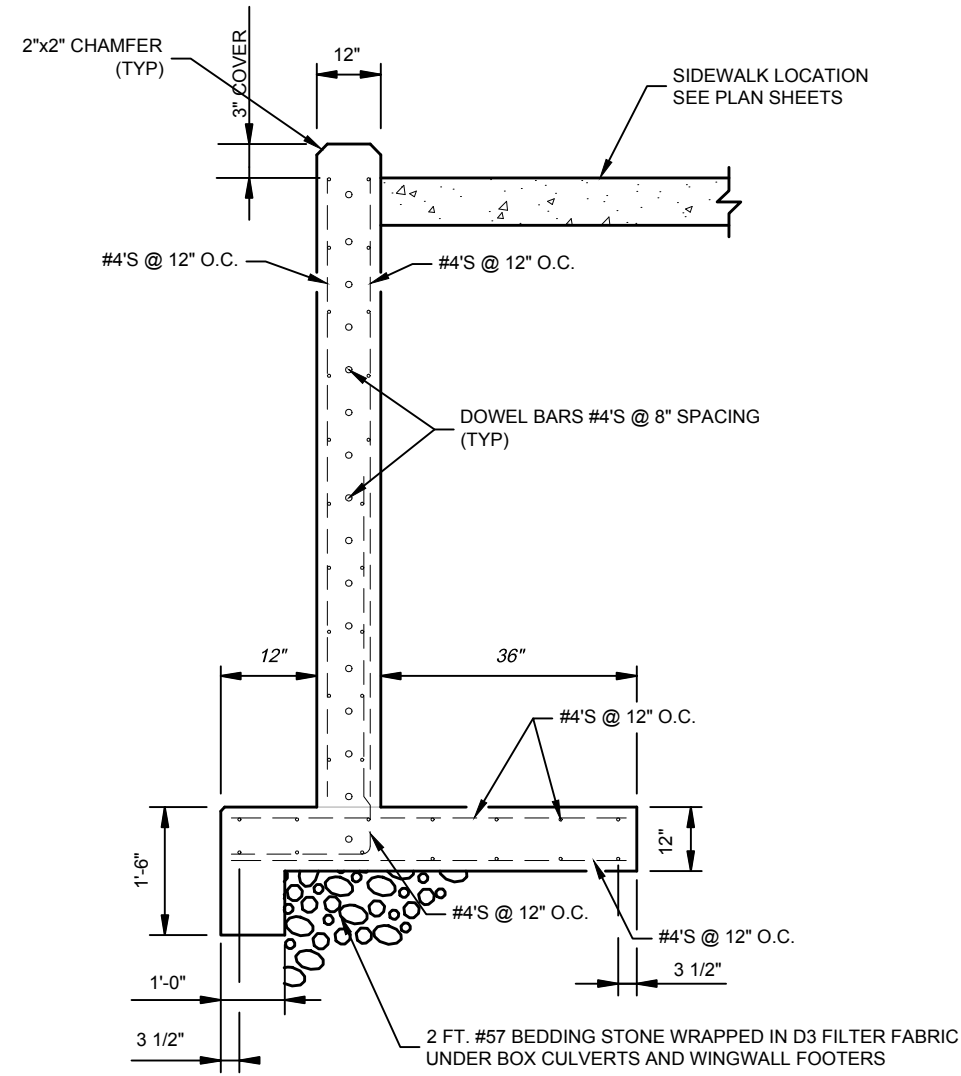
PROFESSIONAL ENGINEER'S SEAL

EB 0006155

PROJECT NO.
220.018

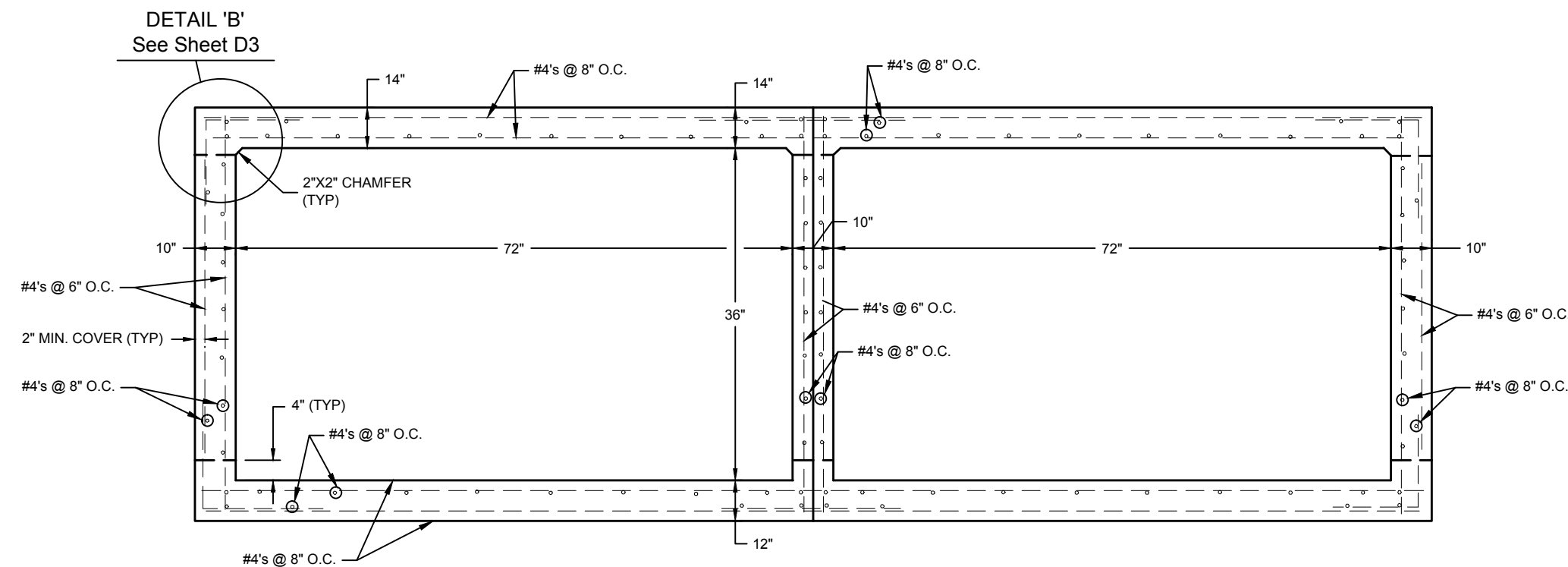
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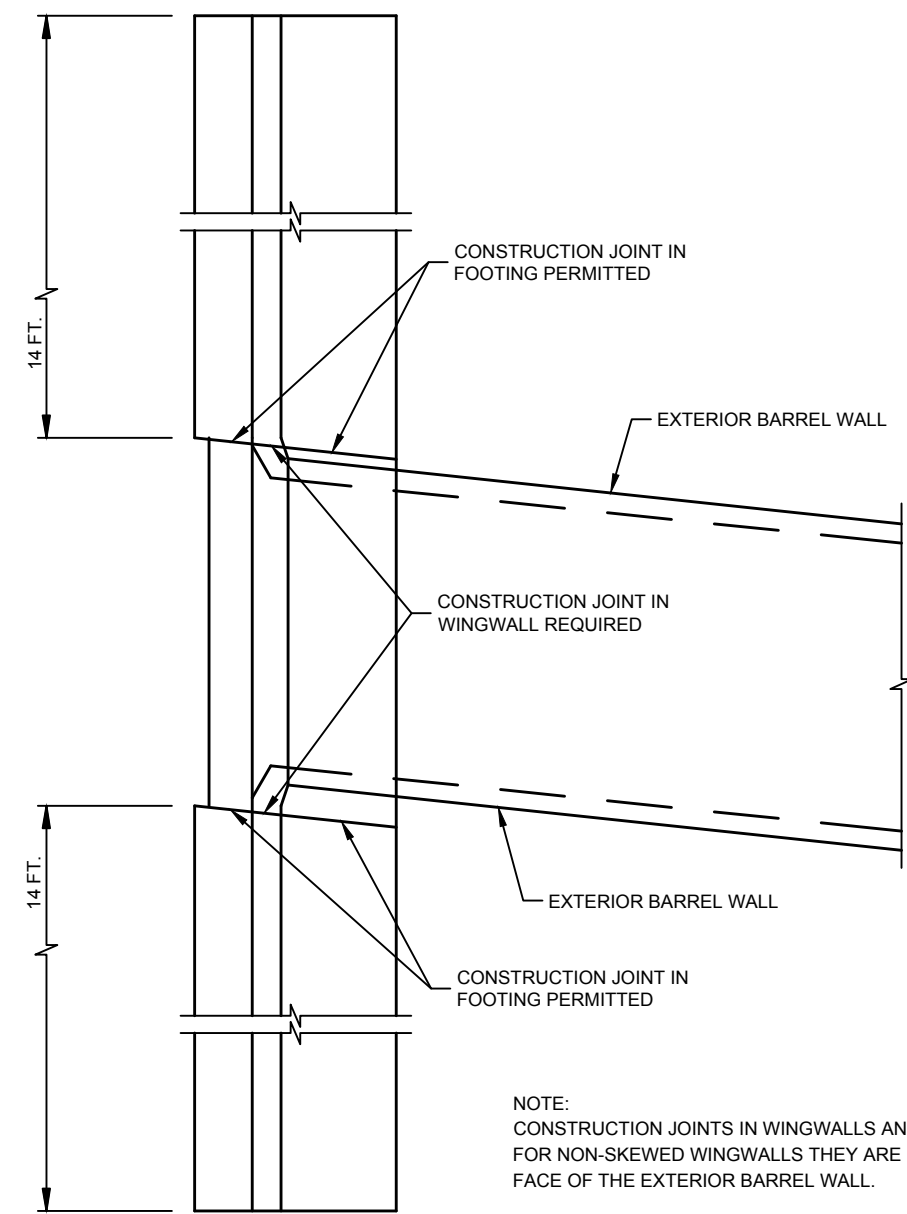


NOTE:
ALL REINFORCING SHALL HAVE MIN.
2" CLEAR COVER ON ALL SIDES.

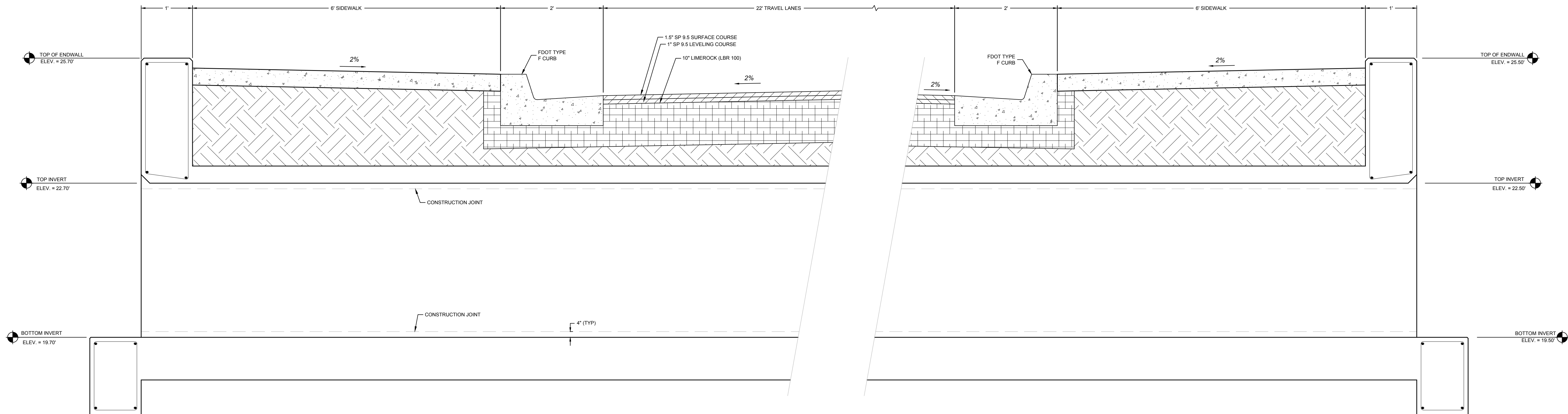
WINGWALL SECTION A-A



SECTION B-B
TYPICAL SECTION THRU MULTIPLE BARREL CULVERT



PART PLAN SHOWING PARALLEL WINGWALLS
AND LOCATION OF CONSTRUCTION JOINTS



LONGITUDINAL SECTION THRU CULVERT
(TRANSVERSE TOP & BOTTOM SLAB REINFORCING NOT SHOWN FOR CLARITY)

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(850) 522-0644

DETAILS
NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA

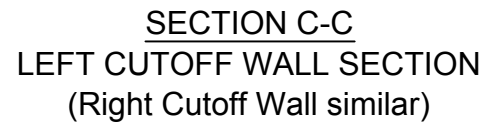
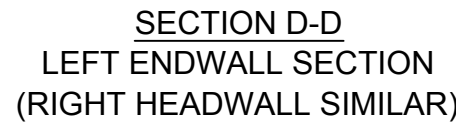
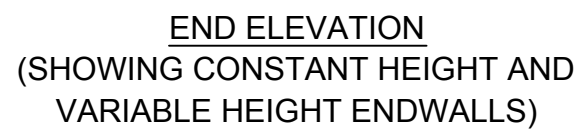
PROJECT NO.
220.018

SHEET
D2

SCALE: N.T.S.
DESIGNED: JMS
DRAWN: jdm/BWR
CHECKED: JMS
DATE: JUNE 2015

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EB 0006155

NO. DATE APPR. PERSON
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STEPHEN E. PRICE 7/14/16 ELIZABETH S. MOORE 5/16/17 ALAN WISE 7/26/17
DANAHAN SHUMSKI 6/7/21 AYDOLUJI O. ADJE-ABEDUO 6/25/24



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CIVIL • SURVEYING • SITE PLANNING
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PROFESSIONAL ENGINEER

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SCALE: N.T.S.	DESIGNED: JMS	DRAWN: jgm/BWR	CHECKED: JMS	DATE: JUNE 2015
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PROJECT NO. 220.018		SHEET D3
DETAILS NORTH KIMBREL AVENUE DRAINAGE CITY OF CALLAWAY BAY COUNTY FLORIDA		

PROJECT NO. 220.018	SHEET D3
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STORMWATER POLLUTION PREVENTION PLAN:

1. SITE DESCRIPTION:
- A. **CONSTRUCTION ACTIVITY:** KIMBREL AVENUE DRAINAGE IMPROVEMENTS PROJECT
LIMITS: SEE SHEET C2
PROJECT DESCRIPTION: CONSTRUCTION OF TWO (2) 6'x3' CONCRETE BOX CULVERT AND TO REPLACE THREE (3) 34"x53" ERCP CULVERTS. THE PROJECT INCLUDES ASPHALT OVERLAY AND ALL ASSOCIATED STABILIZATION.
MAJOR SOIL DISTURBING ACTIVITIES: GRADING UPSTREAM AND DOWNSTREAM OF CONCRETE BOX CULVERTS.
- B. TOTAL PROJECT AREA: 1,972 SQUARE FEET OR 0.045 ACRES (TO BE FINALIZED UPON CITY DIRECTION)
- C. TOTAL SOIL AREA TO BE DISTURBED: SAME AS ABOVE
- D. FOR LOCATIONS OF DRAINAGE OUTFALLS: SEE SHEET C2.
- E. (1) NAME OF RECEIVING WATERS: UNNAMED CONVEYANCE DITCH/SURFACE WATERS

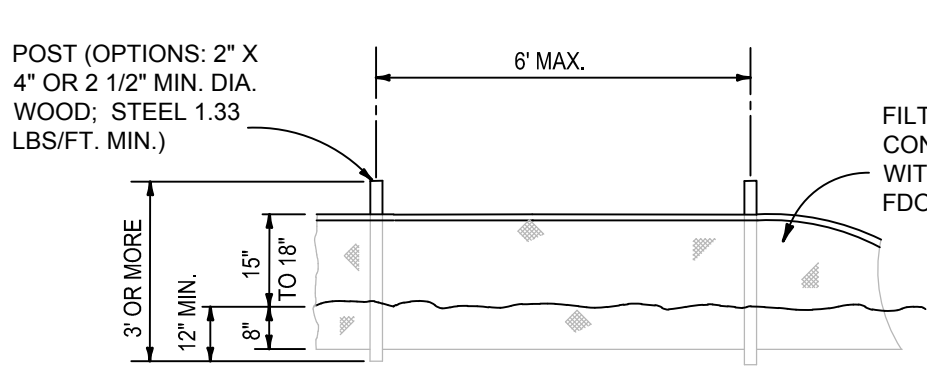
2. CONTROLS:
- NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SYNTHETIC BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SYNTHETIC BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.

- A. EROSION AND SEDIMENT CONTROLS:
- (1) STABILIZATION PRACTICES:
- TEMPORARY SODDING
TEMPORARY GRASSING
X PERMANENT PLANTING, SODDING, OR SEEDING
X TEMPORARY MULCHING
ARTIFICIAL COVERING
BUFFER ZONES
PRESERVATION OF NATURAL RESOURCES
- (2) STRUCTURAL PRACTICES:
- SAND BAGGING
X SILT FENCES
SYNTHETIC BALES
BERMS
DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
PIPE SLOPE DRAINS
FLUMES
ROCK BEDDING AT CONSTRUCTION EXIT
TIMBER BEDDING AT CONSTRUCTION EXIT
DITCH LINER
- SEDIMENT TRAPS
SEDIMENT BASINS
STORM INLET SEDIMENT TRAP (ROCK BAGS)
STONE OUTLET STRUCTURES
CURBS AND GUTTERS
STORM SEWERS
VELOCITY CONTROL DEVICES
XTURBIDITY BARRIER
X RIP RAP
- B. DESCRIPTION OF STORMWATER MANAGEMENT: THE REPLACEMENT OF THREE (3) EXISTING 34"x53" ERCP CULVERTS WITH TWO (2) 6' X 3' CONCRETE BOX CULVERTS WITH ENDWALLS.
- C. OTHER CONTROLS:
- (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
- (2) OFF SITE VEHICLE TRACKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARP/AULIN
X EXCESS DIRT ON ROAD REMOVED DAILY
STABILIZED CONSTRUCTION ENTRANCE
- (3) SANITARY WASTE: N/A
- (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
- (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.
- D. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: NWF/WMD/FDEP GENERAL PERMIT.

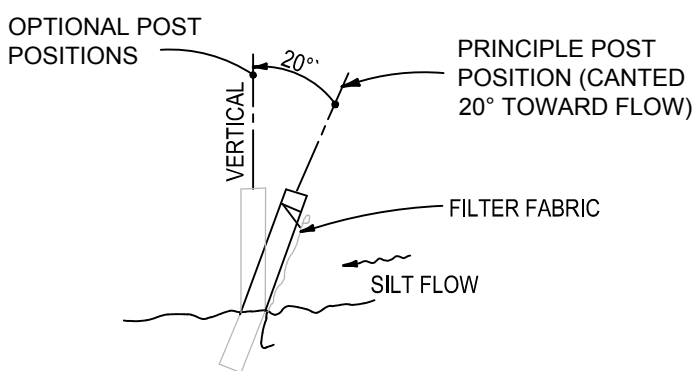
3. MAINTENANCE:
- ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
- ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.5" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.

- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IN INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO GULF COUNTY AND THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



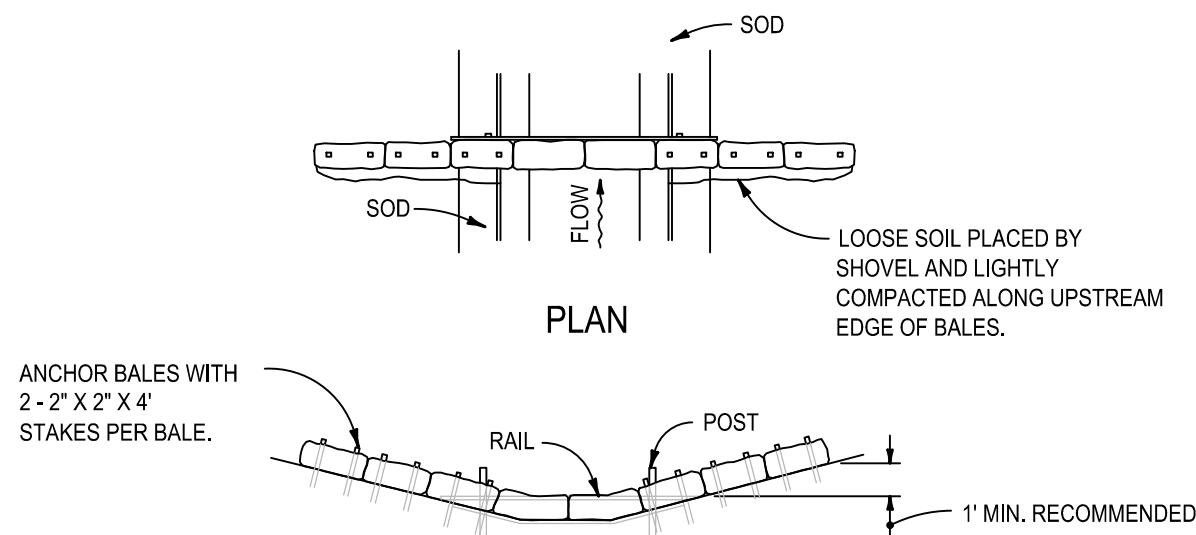
ELEVATION



SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT BASE BID.

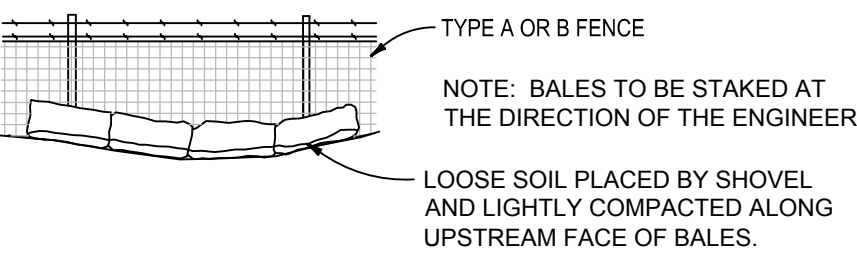
TYPE III SILT FENCE



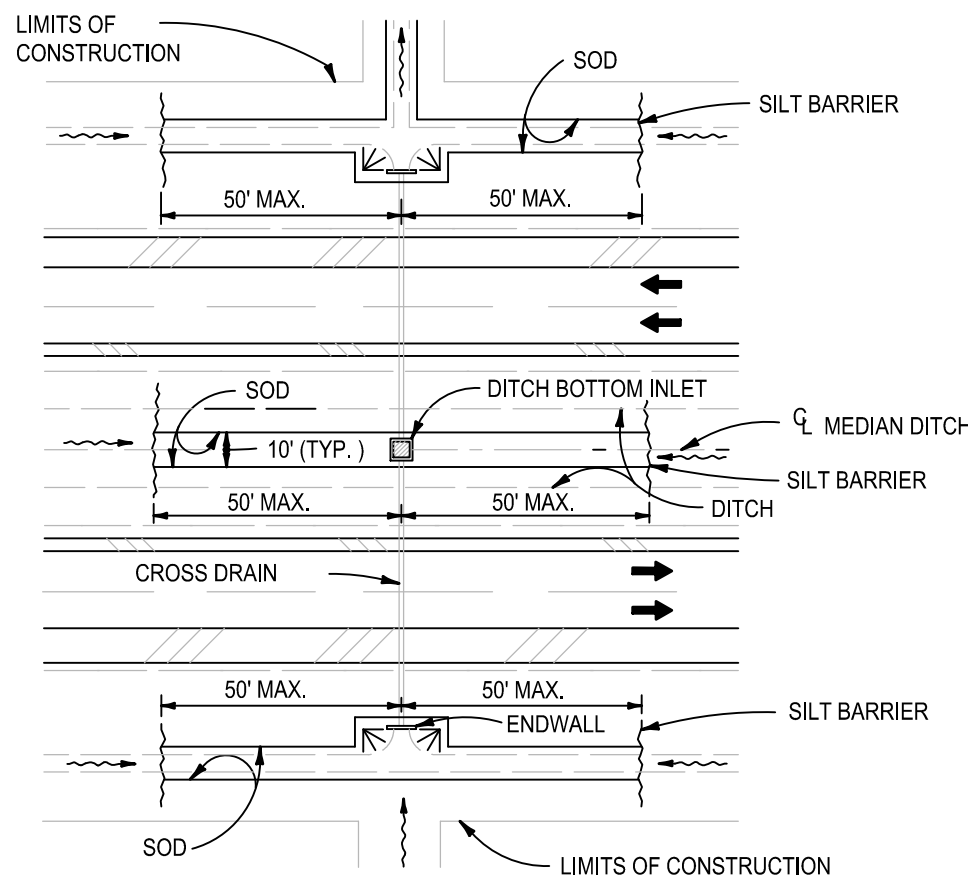
ELEVATION

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

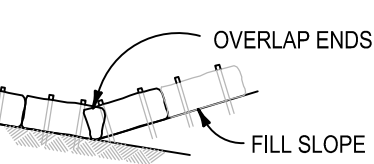
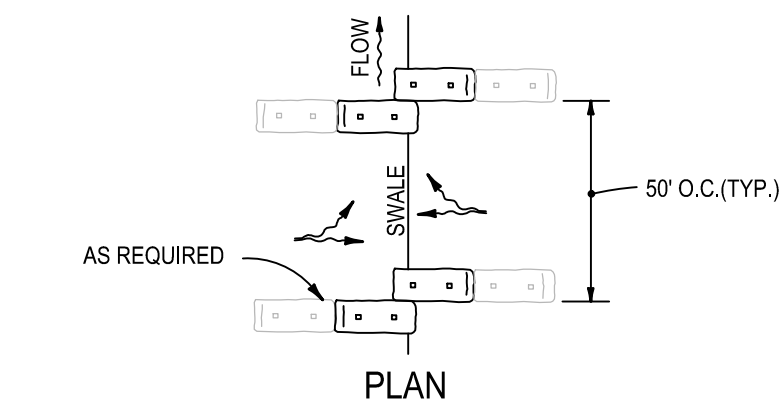
BARRIER FOR PAVED DITCH



BALES BACKED BY FENCE

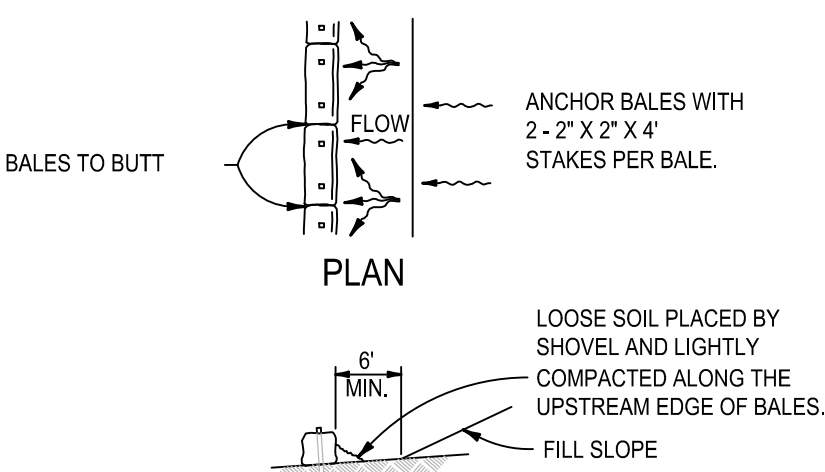


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



ELEVATION

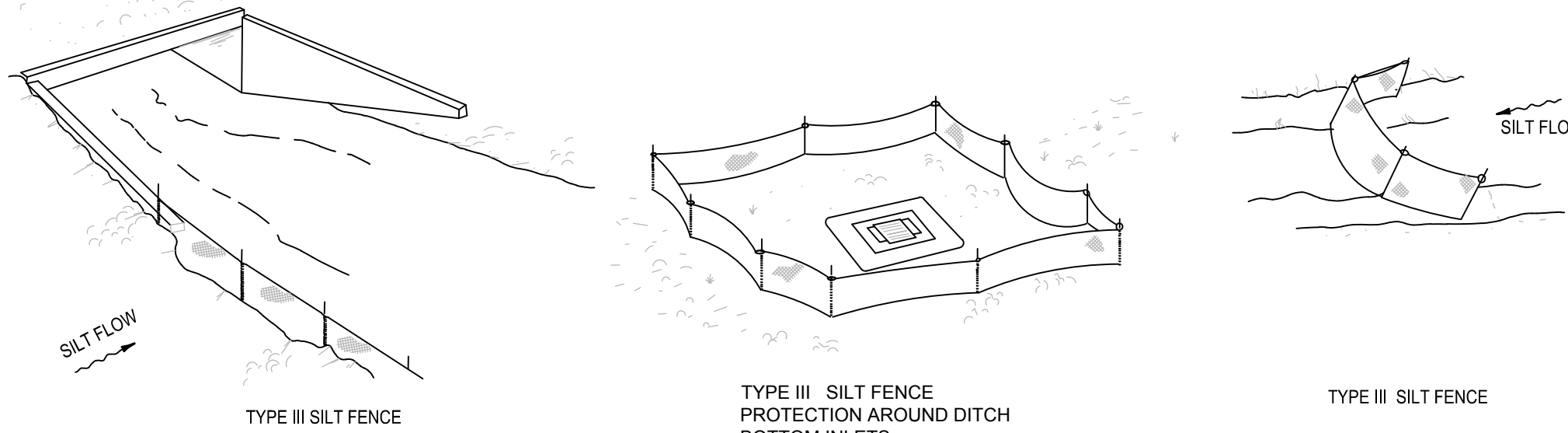
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

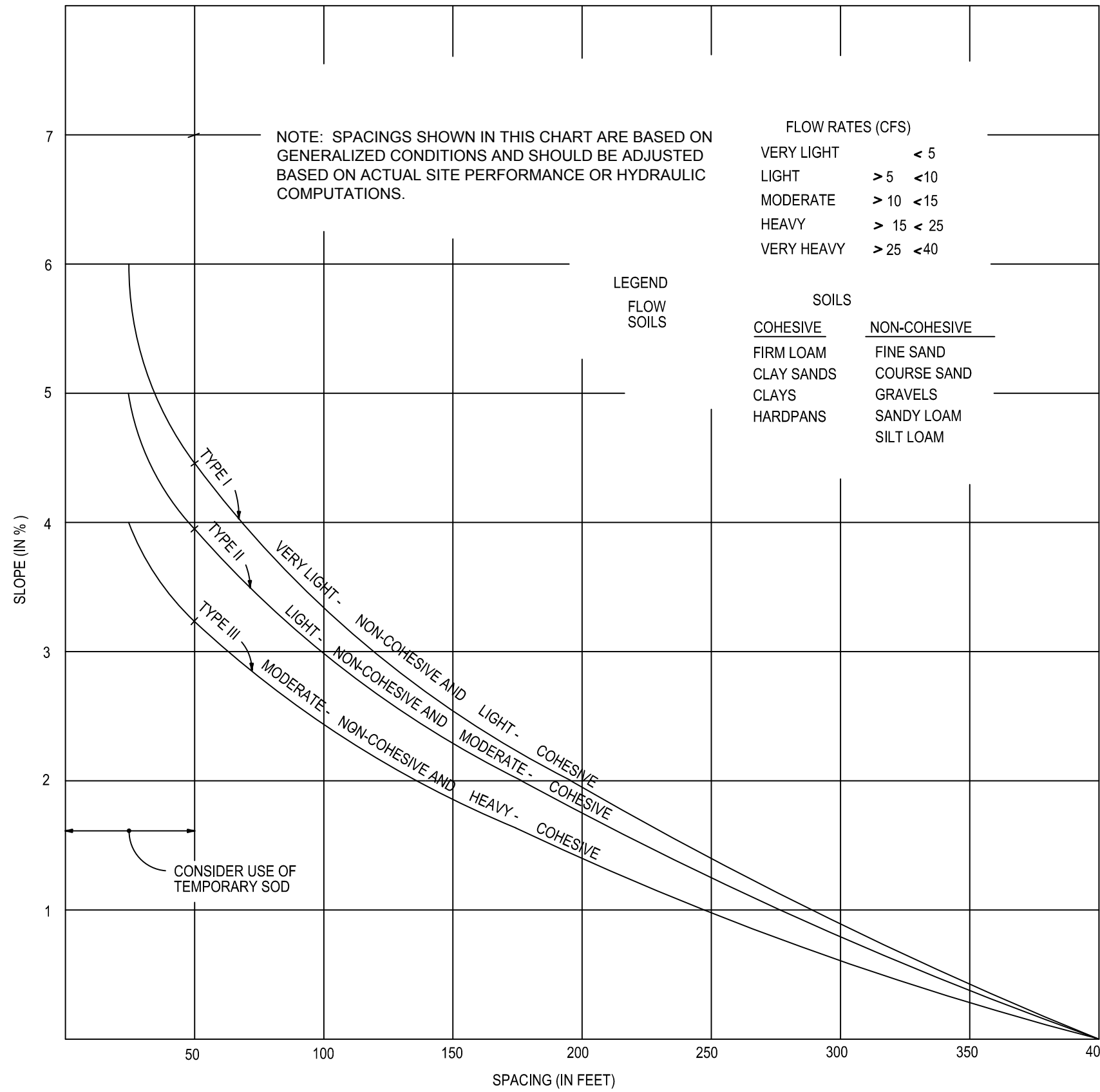
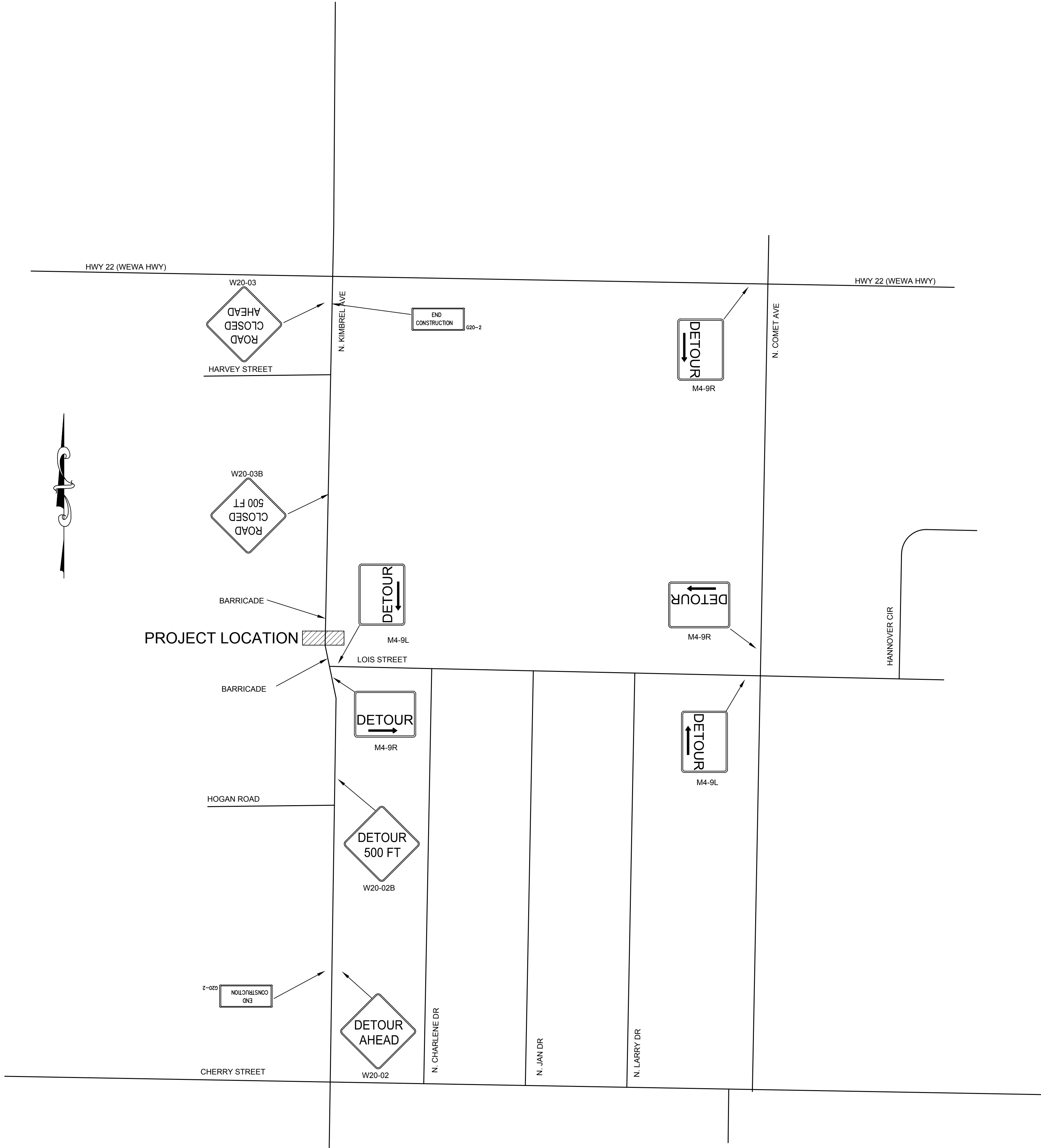


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

PROJECT NO. 220.018		SHEET D4	
DETAILS		NORTH KIMBREL AVENUE DRAINAGE CITY OF CALLAWAY BAY COUNTY FLORIDA	
PREBLE-RISH INC. CONSULTING ENGINEERS AND SURVEYORS CIVIL • SURVEYING • SITE PLANNING 203 ABERDEEN PKWY, PANAMA CITY, FL 32405 (850) 522-0644		DESIGNED: JMS CHECKED: JMS DRAWN: jdm/BWR DATE: JUNE 2015	
NOT APPROVED (BALES) DRAWING WITH PROFESSIONAL ENGINEER'S SEAL		PERSON: STEPHEN E. PRICE 71146 DANIEL G. ADAMS-ADAM 6824	

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OVERVIEW
THIS PROJECT (NORTH KIMBREL AVENUE DRAINAGE) IN THE CITY OF CALLAWAY INVOLVES REPLACEMENT OF STORM UNDER NORTH KIMBREL AVENUE.

THE MAINTENANCE OF TRAFFIC FOR CONSTRUCTION ACTIVITIES SHALL BE PERFORMED USING FDOT STANDARD INDICES 600 SERIES.

SEQUENCE OF CONSTRUCTION

PHASE I:

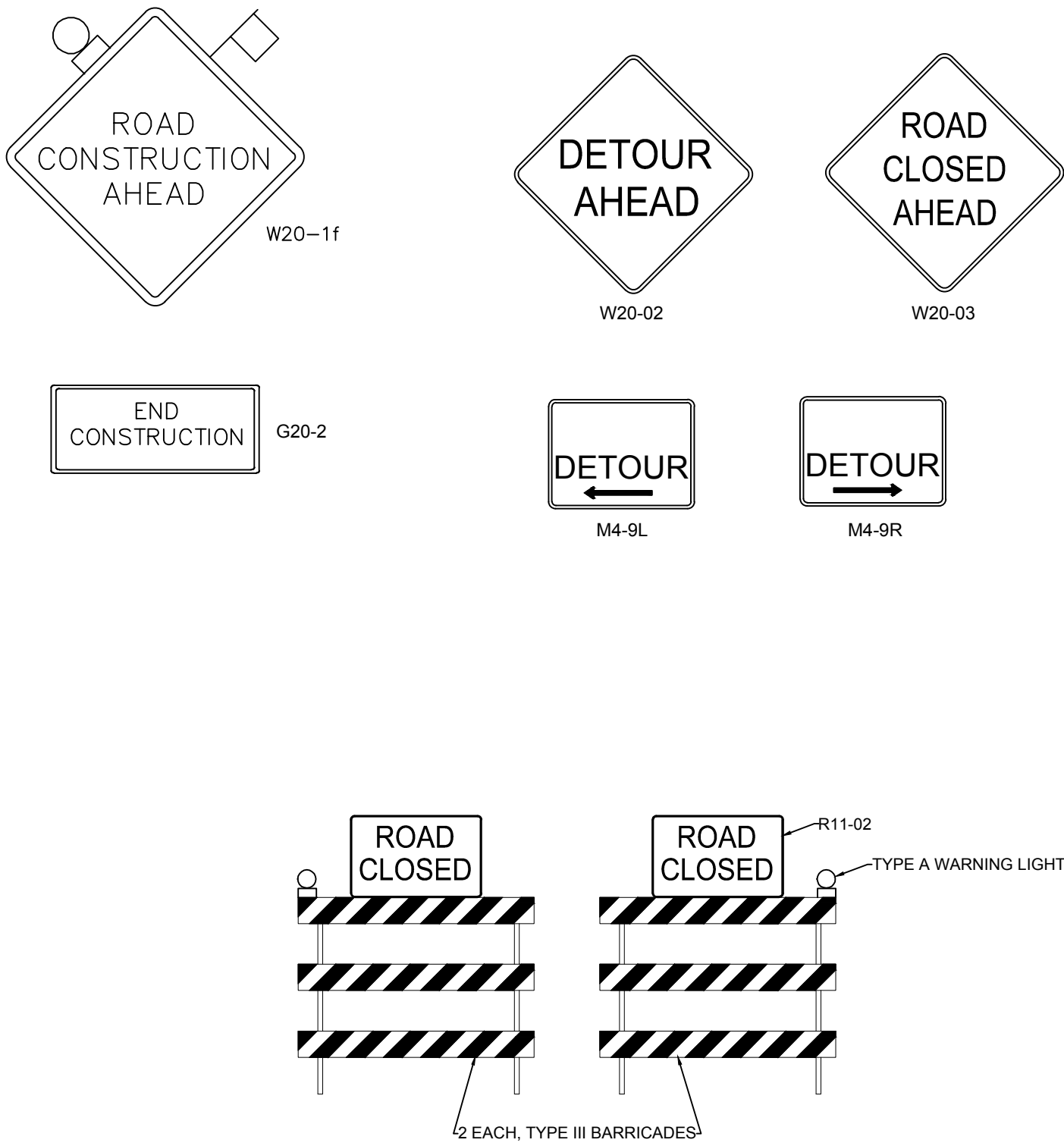
1. MOBILIZATION TO INCLUDE DELIVERY OF CONSTRUCTION MATERIALS AND EQUIPMENT AND SIGN INSTALLATION.
2. CLOSE ROAD AND BEGIN CONSTRUCTION.
3. FINISH ALL NECESSARY DRAINAGE CONSTRUCTION.
4. SOD ALL DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS.

MAINTENANCE OF TRAFFIC NOTES:

1. THESE MAINTENANCE OF TRAFFIC NOTES ARE NOT ALL INCLUSIVE. THEY PROVIDE ONLY THE MAJOR COMPONENTS OF THE TRAFFIC CONTROL REQUIREMENTS. SATISFACTORY MAINTENANCE OF TRAFFIC SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY EXPAND OR UTILIZE HIS OWN MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH SECTION 102-4 OF THE FDOT SPECIFICATIONS.
2. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS 2014 INDEX, 600, AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009).
3. ALL EXISTING SIGNS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC NOTES SHALL BE REMOVED OR FULLY COVERED AS PER INDEX 600 AND AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR IS TO MAINTAIN AND KEEP EXISTING STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
5. ALL LANES MUST BE RE-OPENED TO TRAFFIC WITHIN 12 HOURS OF A HURRICANE EVACUATION NOTICE OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT OR AS DIRECTED BY THE ENGINEER.
6. THE POSTED SPEED SHALL REMAIN THROUGHOUT THE WORK ZONE.
7. THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING DAILY INSPECTIONS ON THE MOT INSTALLATIONS ON THE PROJECT, AND SHALL IMMEDIATELY REPLACE ALL EQUIPMENT AND DEVICES NOT CONFORMING TO FDOT STANDARDS. BAY COUNTY SHALL BE ADVISED OF THESE INSPECTIONS AND BE GIVEN THE OPPORTUNITY TO JOIN IN ON THESE INSPECTIONS.
9. ALL CONSTRUCTION EQUIPMENT SHALL BE STORED AT A CITY OF CALLAWAY APPROVED STAGING AREA WHEN NOT IN USE.
10. ALL SIGNS SHALL BE POST MOUNTED, AT A HEIGHT OF 7', WHEN WORK OPERATIONS EXCEED ONE DAY.

ADVANCE WARNING SIGNS

THE FOLLOWING TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AT THE LOCATIONS INDICATED AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT:



BARRICADE ARRANGEMENT

PREBLE-RISH INC.
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

MAINTENANCE OF TRAFFIC PLAN

**NORTH KIMBREL AVENUE DRAINAGE
CITY OF CALLAWAY
BAY COUNTY
FLORIDA**

PROJECT NO.
220.018

SHEET
D5

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PERSON:

STEPHEN E. PRICE 71646 ALAN WISE 70311
JONATHAN SHUMSKI 67381 AYODEJI O. AJIDE-ABEDUN 68524

EB 0006155