

TOWN OF NAGS HEAD, NORTH CAROLINA S. OLD OREGON INLET RD. (NCSR 1243) DRAINAGE MAINTENANCE PLAN

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

THE APPROVED SEDIMENT AND EROSION CONTROL (SECP) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED SECP PLAN MUST BE REVIEWED AND APPROVED BY THE TOWN OF NAGS HEAD PROJECT REPRESENTATIVE. SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE APPROVED PLAN AND THOSE SET FORTH IN THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM THE STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

BENCHMARK

NOTE: ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM

REFERENCE ELEVATIONS ARE NOTED AT ALL CROSS STREET INTERSECTIONS WITH S. OLD OREGON INLET RD (NCSR 1243)

UTILITY NOTE

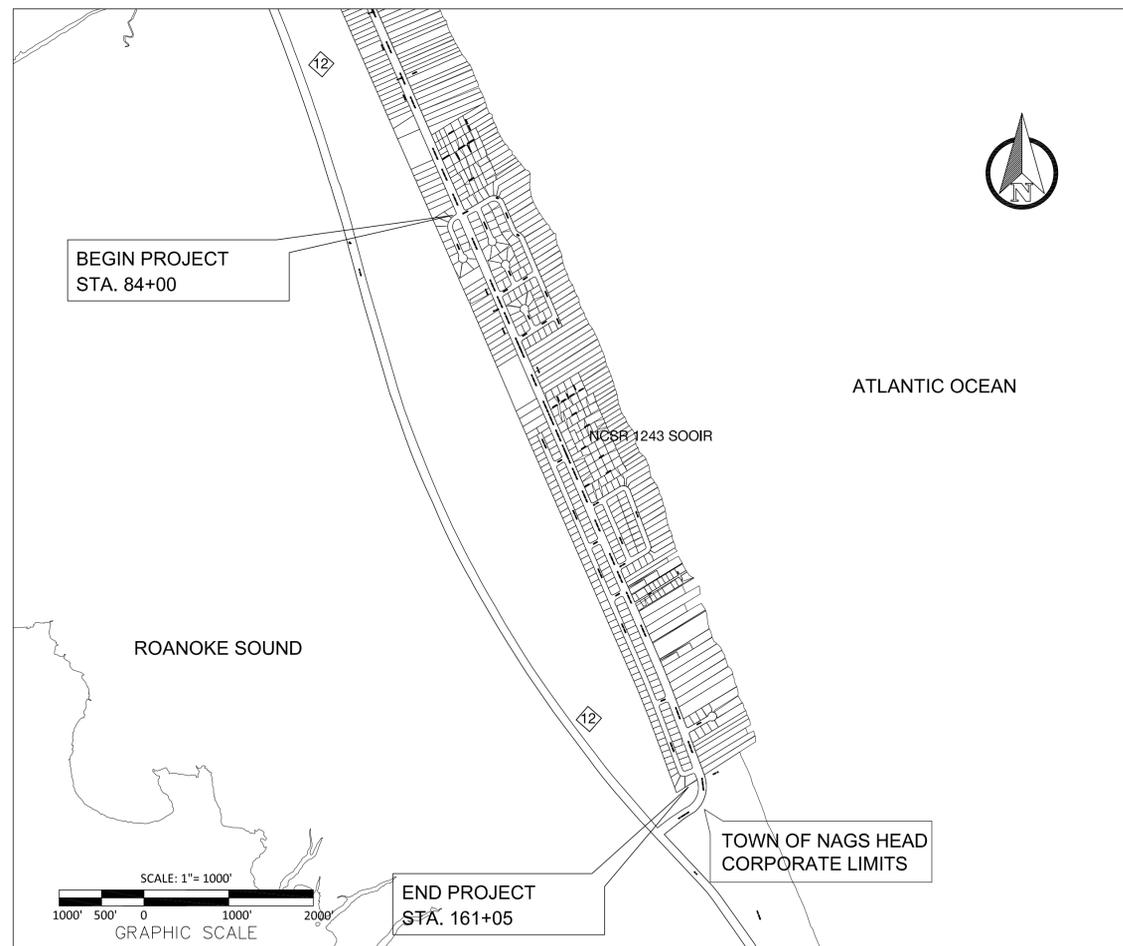
ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER NORTH CAROLINA 811 (TOLL FREE PHONE NO. 1-800-623-4949) FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE NORTH CAROLINA 811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.

TOWN OF NAGS HEAD GENERAL NOTES

THE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, COMPLETE, AND CURRENT. THE TOWN OF NAGS HEAD MAKES NO WARRANTY AS TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THE CONTENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK UNTIL AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

ALL STORM DRAINAGE SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS.

PROJECT LOCATION MAP



GENERAL NOTES

- THE SURVEY INFORMATION AND DRAINAGE PIPE CONDITION NOTATIONS NOTED HEREON WERE PROVIDED BY QUIBLE & ASSOCIATES PC FROM ACQUIRED FIELD DATA AND OBSERVATIONS CONDUCTED BETWEEN AND DEC 10, 2014 AND APR 14, 2014.
- NOTE: ALL PIPE CONDITIONS ARE BASED ON A VISUAL INSPECTION AND IS SUBJECT TO INTERPRETATION. PIPES HAVE NOT BEEN TESTED FOR STRUCTURAL INTEGRITY, STABILITY OR FUNCTIONALITY.
- THE WESTERN EDGE OF 100' R/W FOR OLD OREGON INLET ROAD AS SHOWN IS BASED ON A COMBINATION OF FOUND MONUMENTATION AND THE CENTERLINE OF THE ASPHALT PAVEMENT AS LOCATED. RIGHT OF WAY IS SUBJECT TO ANY INFORMATION THAT MAY BE FOUND WITH A COMPLETE & ACCURATE TITLE SEARCH AND SURVEY OF THE EXTENTS OF OLD OREGON INLET ROAD AND ADJOINING PROPERTIES.
- INTENT OF THE PROJECT IS TO REPLACE EX. CROSS STREET CULVERT DRAINAGE PIPES WHICH HAVE BEEN OBSERVED TO HAVE DETERIORATED TO A POINT OF NEAR CATASTROPHIC FAILURE. ALL EXISTING PIPES ARE PROPOSED TO BE REPLACED WITH 30" DIA. DOUBLE WALL HDPE PIPES, OR AS OTHERWISE NOTED.
- AN NCDOT RIGHT-OF-WAY ENCROACHMENT AGREEMENT SHALL BE SECURED PRIOR TO PERFORMING ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.

LEGEND

SURFACE FEATURES:		DESCRIPTION	GAS/POWER/TELEPHONE		
EXISTING	CONSTRUCT		EXIST.	CONSTRUCT	
		BUILDING LINE (EXISTING)			PAD MOUNTED TRANSFORMER
		DITCH CENTERLINE (EXIST.)			POWER VAULT
		CURB/PAVEMENT/SIDEWALK (EX)			UTILITY POLE
		FENCE (EXISTING)			POWER POLE
		VEGETATION/TREELINE			UTILITY POLE ANCHOR
		RETAINING WALL (EXISTING)			LIGHT POLE
SURVEY:		CENTERLINE (EXISTING)			TELEPHONE PEDESTAL
		CONTOUR (DITCH TOP)			TELEPHONE VAULT
		CONTOUR (EXIST)			
		EASEMENT			
		PROPERTY LINE (EXISTING)			
		RIGHT-OF-WAY (CURRENT)			
		BOUNDARY LINE			
		EDGE OF PAVEMENT (EXISTING)			
UTILITIES (EXISTING):		FIBER OPTIC (BURIED)			
		CABLE TELEVISION (BURIED)			
		FORCE MAIN			
		GAS			
		POWER (AERIAL)			
		POWER (BURIED)			
		SANITARY SEWER			
		STORM DRAINAGE			
		TELEPHONE (BURIED)			
		TELEPHONE (AERIAL)			
		WATER			
CONSTRUCT		BUILDING LINE			
		DITCH CENTERLINE			
		CURB/PROP			
		CURB/PAVEMENT/SIDEWALK			
		SILT FENCE			
		CONTOUR (INDEX)			
		TOP OF BANK (PROPOSED)			
		CONSTRUCTION LIMITS			
		GUARDRAIL			
SYMBOL		DESCRIPTION			
		BENCH MARK			
		BLOCK CORNER			
		IRON PIPE			
		EX. IRON REBAR			
		CONCRETE MONUMENT			
		MONUMENT (IN CASE)			
		SPOT ELEVATION			
DRAINAGE		DESCRIPTION			
		STORM DRAIN CATCH BASIN			
		STORM DRAIN INLET			
		STORM DRAIN PIPE			
		STORM DRAIN JUNCTION			
		STORM PIPE (PROPOSED) DOUBLE LINE TO SIZE OF PIPE DIAMETER			
WATER		DESCRIPTION			
		GUARD POST			
		FH			
		WATER VALVE			
		WATER METER			

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20	PLAN/PROFILE SHEET STA 118+75-125+75
21	PLAN/PROFILE SHEET STA 125+75-131+75
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25	PLAN/PROFILE SHEET STA 152+25-159+25
26	PLAN/PROFILE SHEET STA 159+25-161+05

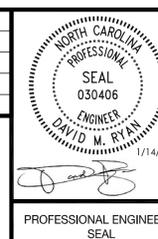
LEGEND (CONT'D)

ROAD SURFACE MATERIAL

SYMBOL	DESCRIPTION
	EXISTING PAVEMENT SCHEDULED FOR REMOVAL
	PROPOSED DRAINAGE PIPE ADDITION

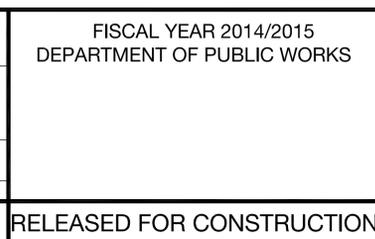
NO.	DATE	REVISION	APPROV'D	DATE
1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16

NAME	DATE
DRAWN BY: DMR	05/22/15
DESIGNED BY: DMR	05/22/15
CHECKED BY: DMR	05/22/15
RECORD DWG:	



CONSTRUCTED BY:
Company Name _____ Date _____
FINAL RECORD DRAWING BY:
Company Name _____
Signature _____ Date _____

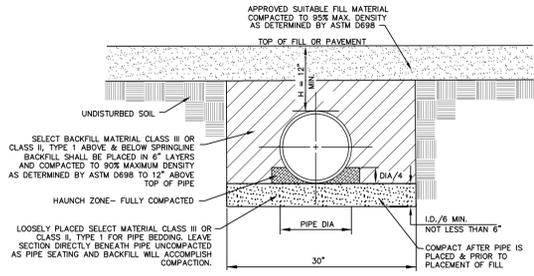
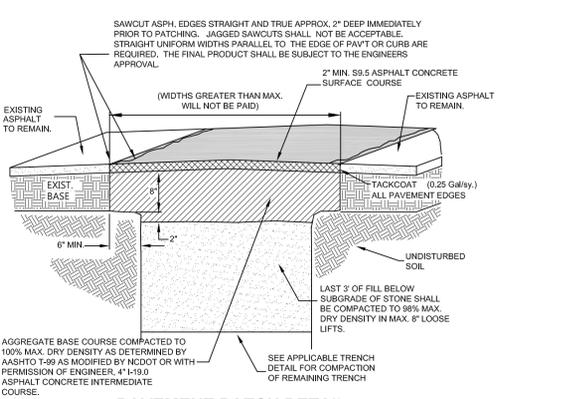
FISCAL YEAR 2014/2015 DEPARTMENT OF PUBLIC WORKS
RELEASED FOR CONSTRUCTION



TOWN OF NAGS HEAD
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 99
NAGS HEAD, NC 27959
252.441.1122 • www.nagsheadnc.gov
STORMWATER PROJECT FY 14/15
S. NAGS HEAD MAINTENANCE
MP 20

SCALE:	DATE:	DRAWING NO.:	SHEET NO.:
AS SHOWN	05/22/2015	C1	SHEET 1 OF 14

DRAWING TITLE:
COVER SHEET



STANDARD FLEXIBLE PIPE INSTALLATION DETAIL
NOT TO SCALE (FLEXIBLE H.D.P.E. PIPE/STANDARD DETAIL 300DD1)

ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" CHAPTER XVII OF TITLE 29, CFR, PART 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON THE JOB AT ALL TIMES AND SHALL EMPLOY A PROFESSIONAL ENGINEER TO ACT UPON ALL PERTINENT MATTERS OF THE WORK.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

THE PIPE CULVERT INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH NCDOT TYPICAL STANDARD DETAIL 300DD1.

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT OR TOP OF THE PAVEMENT STRUCTURE AT THAT POINT.

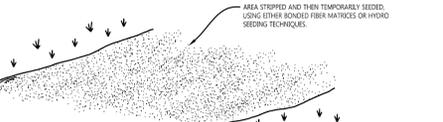
CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATCHES.

CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.

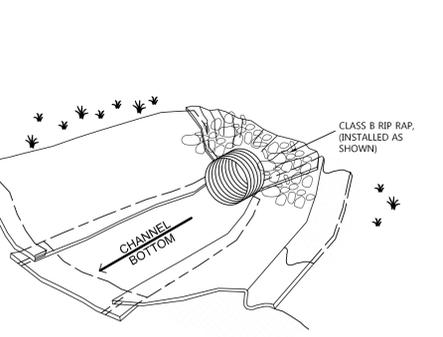
CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION FOR A DISTANCE NOT GREATER THAN 1800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.

AT THE PROPERTY OWNERS REQUEST, THE CONTRACTOR SHALL DIG UP EXISTING SHRUBS AND BUSHES WITHIN UTILITY EASEMENT TO BE DISTURBED BY CONSTRUCTION AND SET OUTSIDE THE UTILITY EASEMENT AREA IN A LOCATION DETERMINED BY THE PROPERTY OWNER (NO SEPARATE PAYMENT). PROPERTY OWNER WILL BE RESPONSIBLE FOR REPLANTING SHRUBS AND BUSHES SO REMOVED AND SHALL BE RESPONSIBLE FOR REESTABLISHING GROWTH. IF NO REQUEST IS MADE BY THE PROPERTY OWNER, DISTURBED SHRUBS AND BUSHES SHALL BE REMOVED AND DISPOSED OFF-SITE UNLESS OTHERWISE INDICATED.

CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE TRIMMING CLEARING TO NEARBY EASEMENTS BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.



LAND DISTURBANCE & STABILIZATION DETAIL
NOT TO SCALE



SLOPE STABILIZATION DETAIL
NOT TO SCALE (AS NOTED ON PLANS)

GENERAL NOTES

- ACCESS TO SITES SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE SLOPE PROTECTION, CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS.
- THE CONTRACTOR WILL BE PROVIDED THE CONSTRUCTION STAGING AREA AT OWNERS EXPENSE.
- THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK.
- CONTRACTOR SHALL MAINTAIN A NEAT AND CLEAN JOB-SITE TO INCLUDE STAGING/STORAGE AREAS AS FOLLOWS:
 - PERFORM DUST CONTROL BY WATERING DAILY OR AS DIRECTED BY THE ENGINEER.
 - SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER.
 - BLADE, LEVEL AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY OR AS DIRECTED BY THE ENGINEER TO PRODUCE A SMOOTH "RIDE".
 - PERFORM DAILY CLEANUP OF ALL DEBRIS AND SCRAP MATERIALS.
 - REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
- EXCESS SUITABLE SOIL EXCAVATED DURING CONSTRUCTION SHALL BE STOCKPILED FOR USE ON THE PROJECT OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE MATERIALS OR EXCESS MATERIALS IN THE STREET RIGHT-OF-WAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OR OVER NIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.
- CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE FENCE REMOVAL OR REINSTALLATION WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. CONTRACTOR SHALL INSTALL ALL SHEDS, FENCES, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE DISTURBED SHALL BE REPLACED IMMEDIATELY. TEMPORARY ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN A LOCATION CONSISTENT WITH THE NCDOT TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL PROVIDE SECURITY GUARD, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES CONTRACTOR DEEMS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).
- WHERE CONTRACTOR WORKS OPERATIONS FOR A 72 HOUR PERIOD OR LONGER, SUCH AS HOLIDAYS, ETC., THE FOLLOWING SHALL BE ACCOMPLISHED PRIOR TO THE WORK STOPPAGE:
 - CONTRACTOR SHALL STORE ALL EQUIPMENT IN THE CONTRACTOR STAGING AREA OR OFF SITE.
 - THE CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATCHES.
- CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.
- CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION FOR A DISTANCE NOT GREATER THAN 1800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- AT THE PROPERTY OWNERS REQUEST, THE CONTRACTOR SHALL DIG UP EXISTING SHRUBS AND BUSHES WITHIN UTILITY EASEMENT TO BE DISTURBED BY CONSTRUCTION AND SET OUTSIDE THE UTILITY EASEMENT AREA IN A LOCATION DETERMINED BY THE PROPERTY OWNER (NO SEPARATE PAYMENT). PROPERTY OWNER WILL BE RESPONSIBLE FOR REPLANTING SHRUBS AND BUSHES SO REMOVED AND SHALL BE RESPONSIBLE FOR REESTABLISHING GROWTH. IF NO REQUEST IS MADE BY THE PROPERTY OWNER, DISTURBED SHRUBS AND BUSHES SHALL BE REMOVED AND DISPOSED OFF-SITE UNLESS OTHERWISE INDICATED.
- CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE TRIMMING CLEARING TO NEARBY EASEMENTS BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.

UTILITY GENERAL NOTES

- PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (i.e. TELEPHONE, GAS, CABLE, ETC).
- THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID COLLISIONS (NO SEPARATE PAYMENT).
- STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE TOWN OF NAGS HEAD STANDARDS.
- UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER, LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY PROTECTION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING.
- WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH TOWN OF NAGS HEAD STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.

GENERAL PAVEMENT REPAIR NOTES

- MILLING EQUIPMENT USED IN LIEU OF SAW CUTTING AND PAVEMENT DISPOSAL SHALL BE APPROVED BY THE ENGINEER. PAVEMENT REMOVAL AND MILLING OPERATIONS ARE LIMITED TO 300' PER STORM MAIN CREW AND REQUIRE THE MILLINGS TO BE PLACED IN THE MILLED AREA AND COMPACTED TO ACT AS A TEMPORARY SURFACE FOR TRAFFIC. THE MILLINGS SURFACE ALONG AN UNDISTURBED TRENCH SHALL BE MAINTAINED AS DIRECTED BY THE ENGINEER. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL SAW CUT OR MILL ALL PAVEMENTS STRAIGHT AND TRUE PRIOR TO TRENCHING. CONTRACTOR SHALL SAW CUT PATCH AREAS AGAIN IMMEDIATELY TO PATCH PAVING. THE FINAL SAW CUT FOR PATCHES SHALL BE STRAIGHT WITH A NEAT SQUARE EDGE AND OF UNIFORM WIDTH PARALLEL WITH THE EDGE OF PAVEMENT CURB LINE. JAGGED CUTS SHALL BE ACCEPTED. ADDITIONAL WIDTHS REQUIRED SHALL BE AT THE CONTRACTORS EXPENSE.
- STORM DRAIN PIPES SHALL BE PAID FOR BASED ON A 2.5" WIDE PATCH RESPECTIVELY. CONTRACTOR SHALL SWEEP STREETS AND PROVIDE DUST CONTROL AT ALL TIMES VIA WATER TRUCK, BROOMS, COMPACTORS, ETC. DEBRIS FROM SWEEPING OPERATIONS SHALL NOT BE DIRECTED TOWARD YARDS AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE. CLEAN UP OF DEBRIS, TRASH, EXCESS MATERIALS ETC. SHALL BE PERFORMED DAILY IN EACH PROJECT CONSTRUCTION AREA (NO SEPARATE PAYMENT).
- THE DAY PRIOR TO PATCH PAVING OPERATIONS BEGIN THE CONTRACTOR MAY BE ALLOWED TO:
 - REMOVE SOIL IN PATCH AREA TO SUB GRADE ON THE MAIN LINE TRENCH ON ANY CUL-DE-SAC'S LESS THAN 300 FEET IN LENGTH.
 - THE MAIN LINE TRENCH AND SEWER LATERALS ON THROUGH STREETS MAY BE CUT DOWN TO SUB GRADE ON ONE SIDE OF THE STREET ONLY.
- REMOVAL SHALL NOT EXCEED THE DAILY PATCH PAVING PRODUCTION.

PAVEMENT REPAIR NOTES

- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT CROSS SECTION AS EXISTED PRIOR TO REMOVING PAVEMENT. THE STREET CROWN SHALL BE RESTORED.
- WHERE PATCH OR CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADATIONS WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND REPATCHED AT NO EXPENSE TO THE OWNER. CURB PATCH SHALL BE THE SAME SHAPE/TEMPERATURE AS THE EXISTING CURB.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE MUTCD OR N.C. SUPPLEMENT. WORK CAN NOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEARBY PAVEMENTS FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE FROM SURFACE DEFLECTIONS.
- CONTRACTOR SHALL SAWCUT EXIST. PAVEMENT STRAIGHT AND TRUE PRIOR TO REMOVING ASPHALT FOR UTILITY INSTALLATION. THE ENGINEER MAY APPROVE THE USE OF A MILLING MACHINE FOR REMOVAL OF THE EXISTING PAVEMENT WITHIN TRENCH LIMITS. WHERE MILLING IS APPROVED THE CONTRACTOR SHALL PLACE AND COMPACT MILLINGS IN MILLED AREA TO PROVIDE AN INTERIM TRAFFIC SURFACE. MILLING WHERE APPROVED BY ENGINEER IS AN ALTERNATE TO CUTTING ASPHALT AND DISPOSING OFF-SITE.
- AFTER UTILITY IS INSTALLED AND TESTED AND THE EXCESS BASE MATERIAL REMOVED (APPROX. 2") CONTRACTOR SHALL AGAIN SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING AS NOTED ABOVE.
- MILLING OPERATIONS SHALL BE LIMITED TO 1800 FEET PER MAIN LINE CREW NOT TO EXCEED 3000

CONSTRUCTION SEQUENCE

- | CONSTRUCTION ACTIVITY | SCHEDULE CONSIDERATION |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONSTRUCTION ACCESS, CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS | FIRST LAND-DISTURBING ACTIVITY-STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL & TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE. |
| SEDIMENT TRAPS & BARRIERS, BASIN TRAPS, SEDIMENT FENCES, & OUTLET PROTECTION | INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING. |
| RUNOFF CONTROL-DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION | INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENTS TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL CONVEYANCE MEASURES DURING GRADING. |
| RUNOFF CONVEYANCE SYSTEM-STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET & OUTLET PROTECTION, SLOPE DRAINS | WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING. |
| LAND CLEARING & GRADING-SITE PREPARATION-CUTTING, FILLING & GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING | BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL KEY AREAS ARE INSTALLED. CLEAR BORROW & DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES & BUFFER AREAS FOR PRESERVATION. |
| SURFACE STABILIZATION-TEMPORARY & PERMANENT SEEDING, MULCHING, SODDING, RIPRAP | APPLY TEMPORARY OR PERMANENT SEEDING MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE. |
| BUILDING CONSTRUCTION-BUILDINGS, UTILITIES, PAVING | INSTALL NECESSARY EROSION & SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE. |
| LANDSCAPING & FINAL STABILIZATION-TOPSOILING, TREES & SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP | STABILIZE ALL OPEN AREAS, INCLUDING BORROW & SPOIL AREAS. REMOVE & STABILIZE ALL TEMPORARY CONTROL MEASURES. |

TEMPORARY SEEDING
THE PURPOSE OF TEMPORARY SEEDING IS TO TEMPORARILY STABILIZE DENuded AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 7 CALENDAR DAYS

TEMPORARY SEEDING SPECIFICATIONS
SEEDING RECOMMENDATIONS FOR LATE WINTER & EARLY SPRING SEEDING DATES- DECEMBER 1 TO APRIL 15
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
WINTER RYE (GRAIN) 120 (ANNUAL RYEGRASS SHALL NOT BE USED)
ANNUAL LESPEDEZA 50 (KOB)
*OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000-LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE
REFER FERTILIZER IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR SUMMER
SEEDING DATES- APRIL 15 TO AUGUST 15
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
GERMAN MILLET 40

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000-LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE
REFER FERTILIZER IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING RECOMMENDATIONS FOR FALL
SEEDING DATES- AUGUST 15 TO DECEMBER 30
SEEDING MIXTURE
SPECIES RATE (LB/ACRE)
WINTER RYE (GRAIN) 120

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000-LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

MAINTENANCE
REPAIR AND RESEED DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

FEET IN TOTAL OF DISTURBED ROADWAY FOR THE ENTIRE PROJECT AT ONE TIME WHERE CONTRACTOR SHALL PATCH PAVE DISTURBED AREA OF ROADWAY PRIOR TO DISTURBING ADDITIONAL ROADWAY.

AT NO TIME SHALL THE TRENCH BE LEFT UNATTENDED WITH A VERTICAL DROP GREATER THAN 1 INCH FROM ASPHALT SURFACE TO TOP OF BACKFILLED TRENCH.

IF PAVEMENT SETTLEMENT OCCURS WITHIN 1 YEAR, THE CONTRACTOR SHALL REPATCH AT NO ADDITIONAL EXPENSE TO THE OWNER.

TOWN OF NAGS HEAD WILL REQUIRE FULL DEPTH ASPHALT PATCH TO MATCH EXISTING ASPHALT THICKNESS ON STATE MAINTAINED ROADS. PATCH PAVING SHOULD OCCUR SAME DAY AS REMOVAL.

TEST FOR DENSITY OF COMPACTION MAY BE MADE AT THE OPTION OF THE ENGINEER AND DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER MAY HAVE COMPACTION TEST PERFORMED AFTER THE BACKFILL COMPLETE. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO VARIOUS ELEVATIONS FOR DENSITY TESTING EXCAVATION, BACKFILL AND RECOMPACTION SHALL BE PERFORMED AT NO ADDITIONAL COSTS TO THE OWNER.

SAFETY DEMOLITION HOLES
COMPACTED BACKFILL OF HOLES SHALL BE IMMEDIATELY SURROUNDED BY SAFETY BARRICADES. SHOULD HOLES IN STREETS, SIDEWALKS OR PARKING AREAS NEED TO BE QUICKLY MADE READY FOR TEMPORARY TRAFFIC, REFER TO TRENCHING AND BACKFILLING.

LAND GRADING CONSTRUCTION SPECIFICATIONS

- CONSTRUCT & MAINTAIN ALL EROSION & SEDIMENTATION CONTROL PRACTICES & MEASURES IN ACCORDANCE WITH THE APPROVED SEDIMENTATION CONTROL PLAN AND CONSTRUCTION SCHEDULE.
- REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.
- SCARIFY AREAS TO BE TOPSOILED TO A MINIMUM DEPTH OF 2 INCHES BEFORE PLACING TOPSOIL.
- CLEAR & GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANNED STABILITY OF FILL.
- ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILLS.
- PLACE ALL FILL IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS, AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLUFFAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
- DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.
- DO NOT PLACE FILL ON A FROZEN FOUNDATION, DUE TO POSSIBLE SUBSIDENCE AND SLUFFAGE.
- KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- HANDLE SLOPES OR SPRINGS ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH APPROVED METHODS.
- PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING. AND A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- PROVIDE ADEQUATE PROTECTION FROM EROSION FOR ALL TOPSOIL STOCKPILES, BORROW AREAS, AND SPOIL AREAS.

MAINTENANCE
PERIODICALLY CHECK ALL GRADDED AREAS & THE SUPPORTING EROSION & SEDIMENTATION CONTROL PRACTICES, AT A MINIMUM OF ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN HALF AN INCH. PROMPTLY REMOVE ALL SEDIMENT FROM DIVERSIONS AND OTHER WATER-DISPOSAL PRACTICES. IF WASHOUTS OR BREAKS OCCUR, REPAIR THEM IMMEDIATELY. PROMPT MAINTENANCE OF SMALL-ERODED AREAS BEFORE THEY BECOME SIGNIFICANT GULLIES IS AN ESSENTIAL PART OF AN EFFECTIVE EROSION & SEDIMENTATION CONTROL PLAN. IMMEDIATE CORRECTIVE ACTION MUST BE TAKEN FOR ANY DEVICE FAILURE. IF SEDIMENT HAS BEEN OBSERVED TO HAVE BEEN DEPOSITED IN A STREAM OR WETLAND, THE DIVISION OF WATER QUALITY MUST BE NOTIFIED WITHIN 24 HOURS AND A WRITTEN NOTICE PROVIDED WITHIN 5 DAYS.

PERMANENT SEEDING
THE PURPOSE OF PERMANENT SEEDING IS TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS, AND TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS. THESE AREAS MUST BE SEED OR PLANTED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS AFTER FINAL GRADE IS REACHED, WHEN TEMPORARY STABILIZATION IS APPLIED. OTHERWISE STABILIZATION MUST OCCUR WITHIN 7 DAYS.

PERMANENT SEEDING SPECIFICATIONS
SEEDING RECOMMENDATIONS FOR SUMMER
SEEDING DATES- APRIL TO JULY
SEEDING MIXTURE
SPECIES RATE
COMMON BERMUDAGRASS 10/1,000 SF (SPRIGS)
1-2 LB/1,000 SF (SEED)

SEEDING NOTES
1- SPRIG OR SOD. MOISTURE IS ESSENTIAL DURING INITIAL ESTABLISHMENT. SOIL MUST BE KEPT WATERED FOR 2-3 WEEKS, BUT CAN BE PLANTED EARLIER OR LATER THAN SPRIGS.

SOIL AMENDMENTS
APPLY LINE AND FERTILIZER ACCORDING TO SOIL TESTS OR APPLY 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE 10-10-10 FERTILIZER, OR 50 LB/ACRE NITROGEN FROM TURF-TYPE SLOW-RELEASE FERTILIZER. ADD 25-50 LB/ACRE NITROGEN AT 2-3 WEEK INTERVALS THROUGH MIDSUMMER.

SPRIGGING
PLANT SPRIGS IN FURROWS WITH A TRACTOR-DRAWN TRANSPLANTER OR BROADCAST BY HAND.

FURROWS SHOULD BE 4-6 INCHES DEEP AND 2 FEET APART. PLACE SPRIGS ABOUT 2 FT APART IN A ROW WITH ONE END AT OR ABOVE SHOULD BE.

BROADCAST AT RATES SHOWN ABOVE, AND PRESS SPRIGS INTO THE TOP 1/2-INCH OF SOIL WITH A DISK SET STRAIGHT SO THAT SPRIGS ARE NOT BROUGHT BACK TOWARD THE SURFACE.

MULCH-DO NOT MULCH.
MAINTENANCE- WATER AS NEEDED AND MOW TO 3/4 TO 1-INCH HEIGHT. TOPDRESS WITH 40 LB/ACRE NITROGEN IN APRIL, 50 LB IN MAY, 50 LB IN JUNE, 50 LB IN JULY, AND 25 LB IN AUGUST.

SCOPE OF DEMOLITION WORK

THE ITEM(S) TO BE REMOVED ARE SHOWN ON THE PROJECT DRAWINGS, UNLESS OTHERWISE SPECIFIED. DEMOLITION SHALL BE DONE ALONG WITH ANY SPECIFIED CLEARING, GRUBBING, AND REMOVAL OF OBSTRUCTIONS, AT A SATISFACTORY DISTANCE IN ADVANCE OF EARTHWORK AND/OR OTHER SCHEDULED CONSTRUCTION. THE AREA ABOVE THE NATURAL GROUND SURFACE SHALL BE CLEARED OF ALL VEGETATION SUCH AS TREES, LOGS, UPRIGHT STUMPS, ROOTS OF DOWNED TREES, BRUSH, GRASS, WEEDS, AND ALL OTHER OBJECTIONABLE MATERIAL INCLUDING CONCRETE OR MASONRY, WITHIN THE FOLLOWING LIMITS:

A. AREA LIMITS FOR DEMOLITION, CLEARING AND GRUBBING FOR STREETS, ROADS, PARKING AND LANDSCAPED AREAS, STRUCTURES AND ALL OTHER TYPES OF CONSTRUCTION. THE DEMOLITION, CLEARING AND GRUBBING SHALL EXTEND TO AT LEAST 5 FT OUTSIDE OF THE DESIGNATED EXCAVATION AREA(S), UNLESS OTHERWISE SPECIFIED IN PROJECT DOCUMENTS.

B. WASTE TEMPORARY STORAGE AND DISPOSAL
THE CONTRACTOR MAY COLLECT DEMOLITION, CLEARING AND GRUBBING WASTES AT ONE PRE-APPROVED LOCATION ON THE SITE FOR COST EFFECTIVE LOADING AND HAULING. ALL MATERIALS REMOVED SHALL BE DISPOSED AT LOCATIONS AWAY FROM TOWN PROPERTY. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR DISPOSING OF MATERIALS AND SHALL PAY ALL COSTS INVOLVED.

C. WASTE, SPOIL AND SURPLUS MATERIALS
UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS OR SUPPLEMENTAL SPECIFICATIONS, ALL WASTE, SPOIL AND SURPLUS MATERIAL, SHALL BE DISPOSSED AWAY FROM TOWN PROPERTY AT THE CONTRACTORS EXPENSE.

D. SAFETY DEMOLITION HOLES
COMPACTED BACKFILL OF HOLES SHALL BE IMMEDIATELY SURROUNDED BY SAFETY BARRICADES. SHOULD HOLES IN STREETS, SIDEWALKS OR PARKING AREAS NEED TO BE QUICKLY MADE READY FOR TEMPORARY TRAFFIC, REFER TO TRENCHING AND BACKFILLING.

1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16
NO.	DATE	REVISION	APPROV	DATE

PROFESSIONAL ENGINEER'S SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 03406 ENGINEER DAVID M. RYAN 1/14/2016

CONSTRUCTED BY:

Company Name _____ Date _____

FINAL RECORD DRAWING BY:

Company Name _____

Signature _____ Date _____

Signature _____ Date _____

FISCAL YEAR 2014/2015
DEPARTMENT OF PUBLIC WORKS

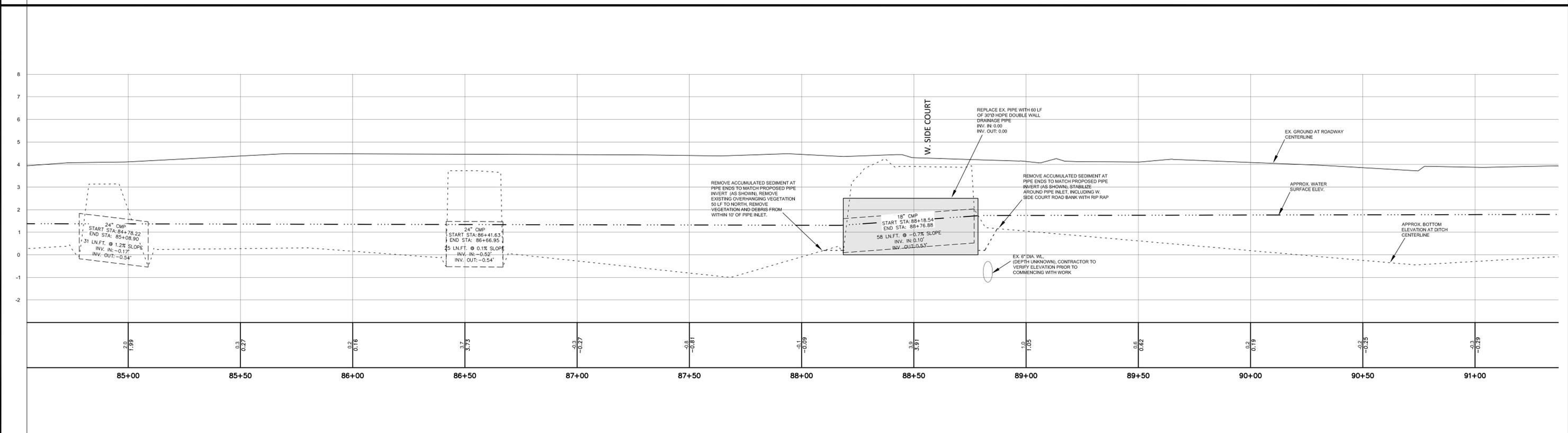
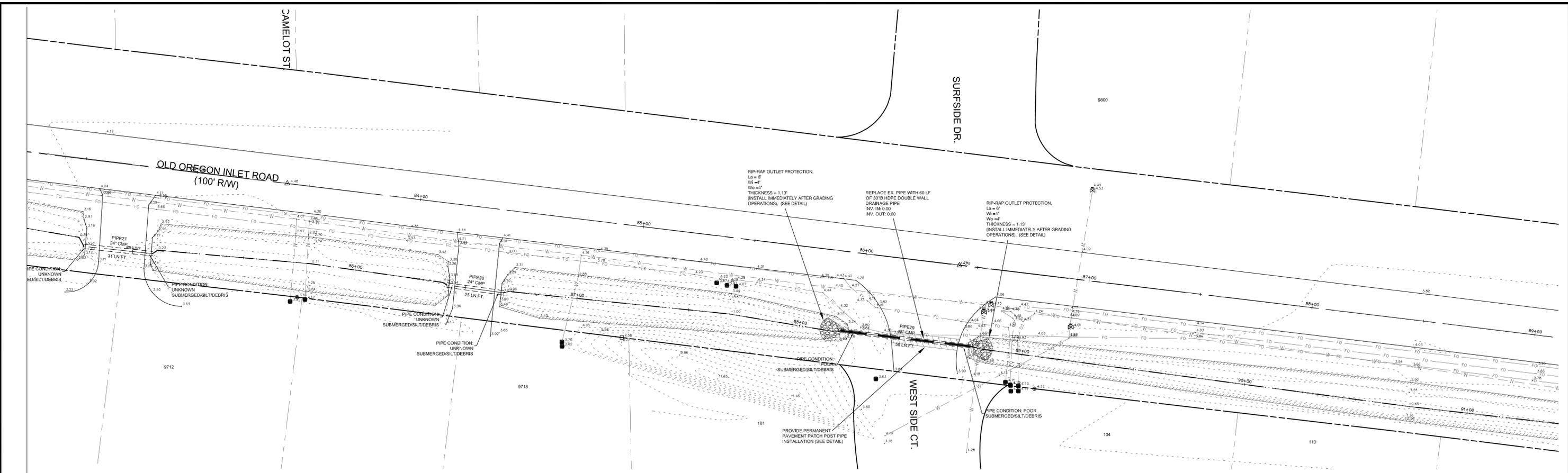
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STORMWATER PROJECT FY 14/15
S. NAGS HEAD MAINTENANCE
MP 20

DRAWING TITLE:
PROJECT DETAILS AND SPECIFICATIONS

SCALE: AS SHOWN DATE: 05/22/2015 DRAWING NO.: C2 SHEET NO.: SHEET 2 OF 14

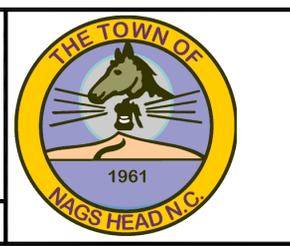


NO.	DATE	REVISION	APPR'D DATE	APPROVALS
1	1/14/16	ISSUED FOR CONSTRUCTION, LOWERED CULVERT PIPE 0.2'	DMR	1/14/16

Signature: _____
 Date: _____

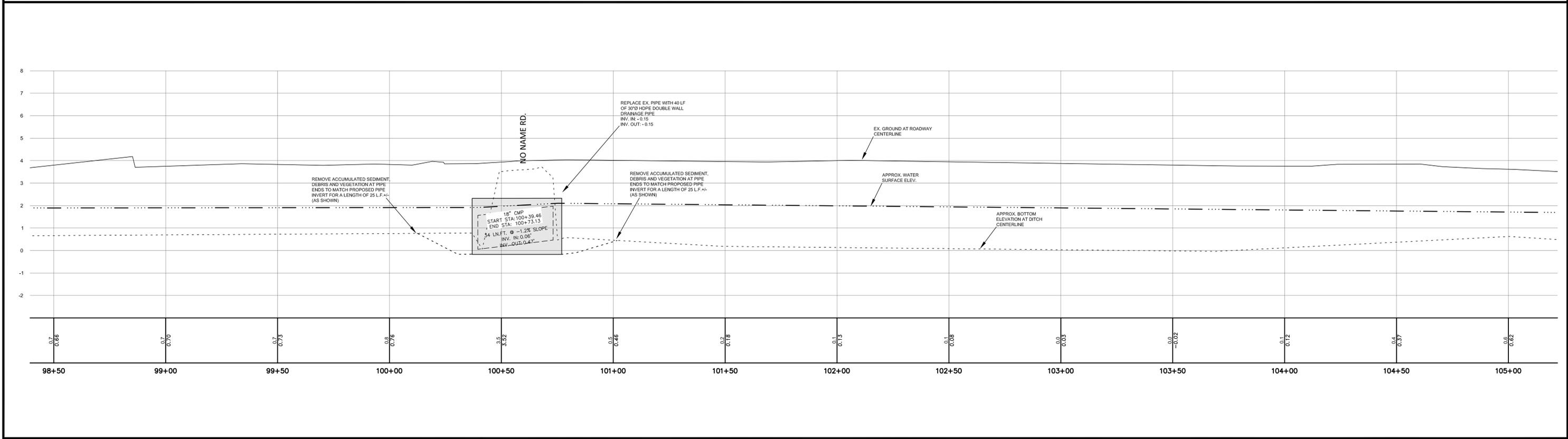
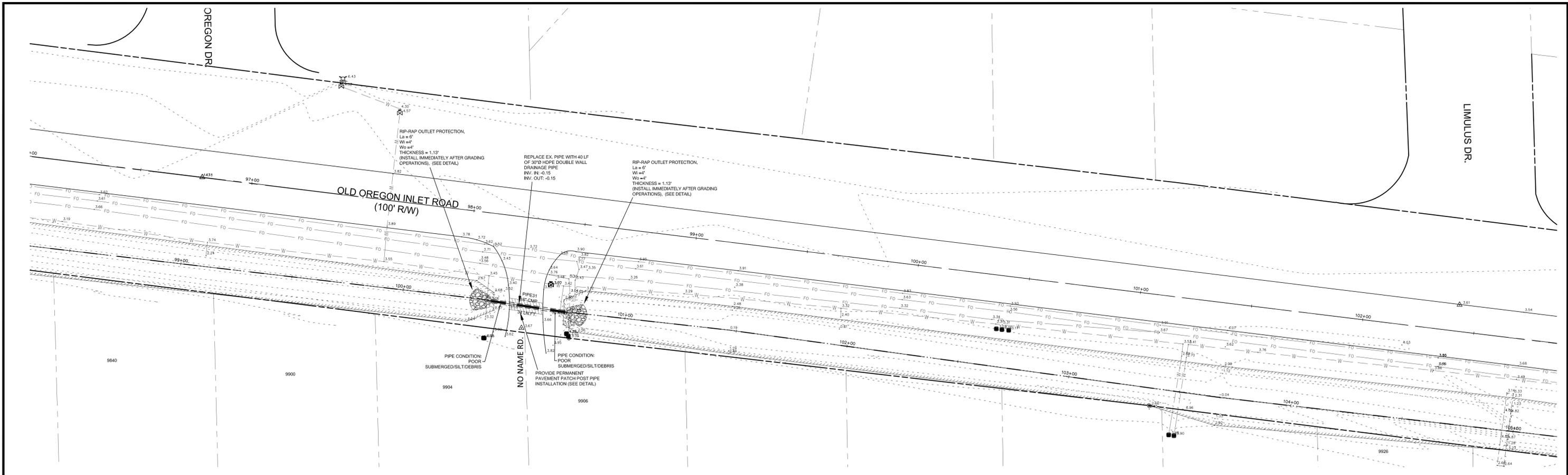
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DRAWN BY: DMR	5/22/2015
DESIGNED BY: DMR	5/22/2015
CHECKED BY: DMR	5/22/2015
RECORD DWG:	

CONSTRUCTED BY:	
Company Name	Date
FINAL RECORD DRAWING BY:	
Company Name	Date
Signature	Date



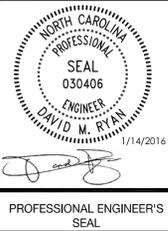
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DRAWING TITLE:
PLAN/PROFILE SHEET
STA 84+00 - STA 90+75



1	1/14/16	ISSUED FOR CONSTRUCTION, LOWERED CULVERT PIPE 0.17'	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

	NAME	DATE
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DESIGNED BY:	DMR	5/22/2015
CHECKED BY:	DMR	5/22/2015
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Signature: *[Signature]*
Date: _____

PROFESSIONAL ENGINEER'S SEAL

CONSTRUCTED BY:

Company Name: _____ Date: _____

FINAL RECORD DRAWING BY:

Company Name: _____

Signature: _____ Date: _____

LAND SURVEYOR'S SEAL

FISCAL YEAR 2014/2015
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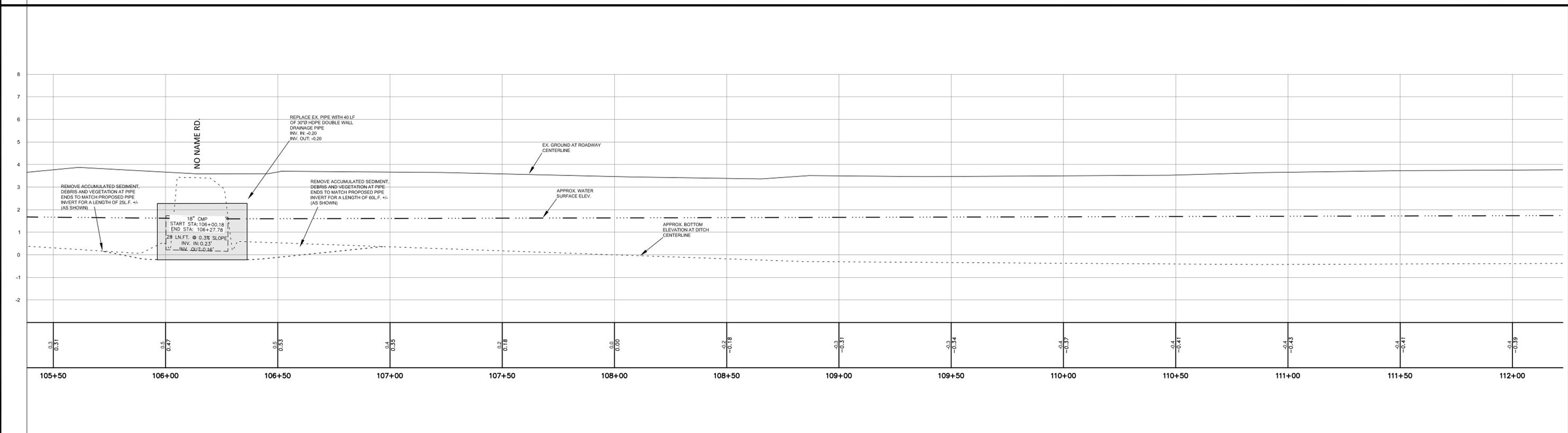
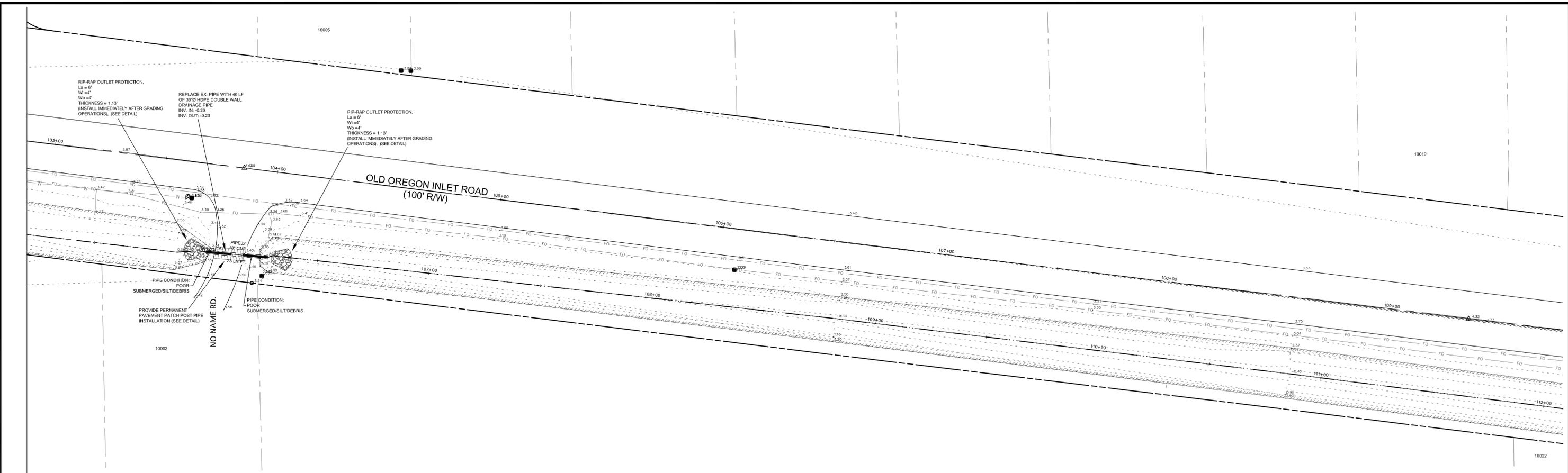
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SCALE: 1" = 20' HOR.
1" = 2' VERT.

ISSUE DATE: 5/22/2015

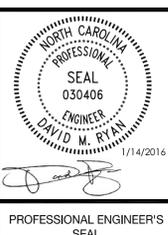
DRAWING TITLE:
**PLAN/PROFILE SHEET
STA 97+50 - STA 104+50**

DRAWING NO.: C5 SHEET NO.: SHEET 5 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION, LOWERED CULVERT PIPE 0.1'	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

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CHECKED BY: DMR	5/22/2015
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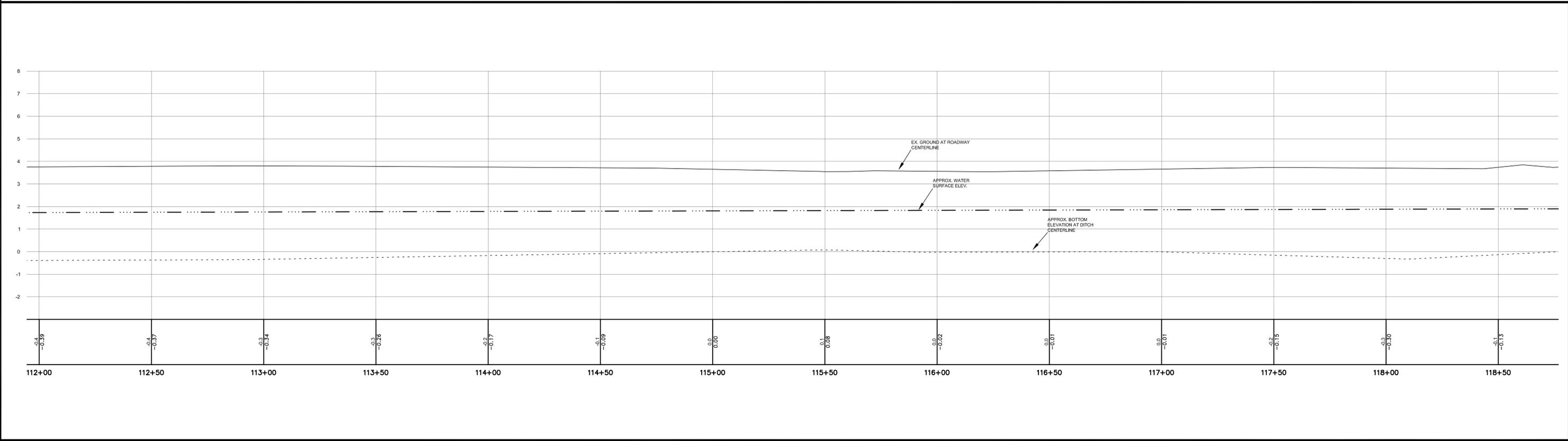
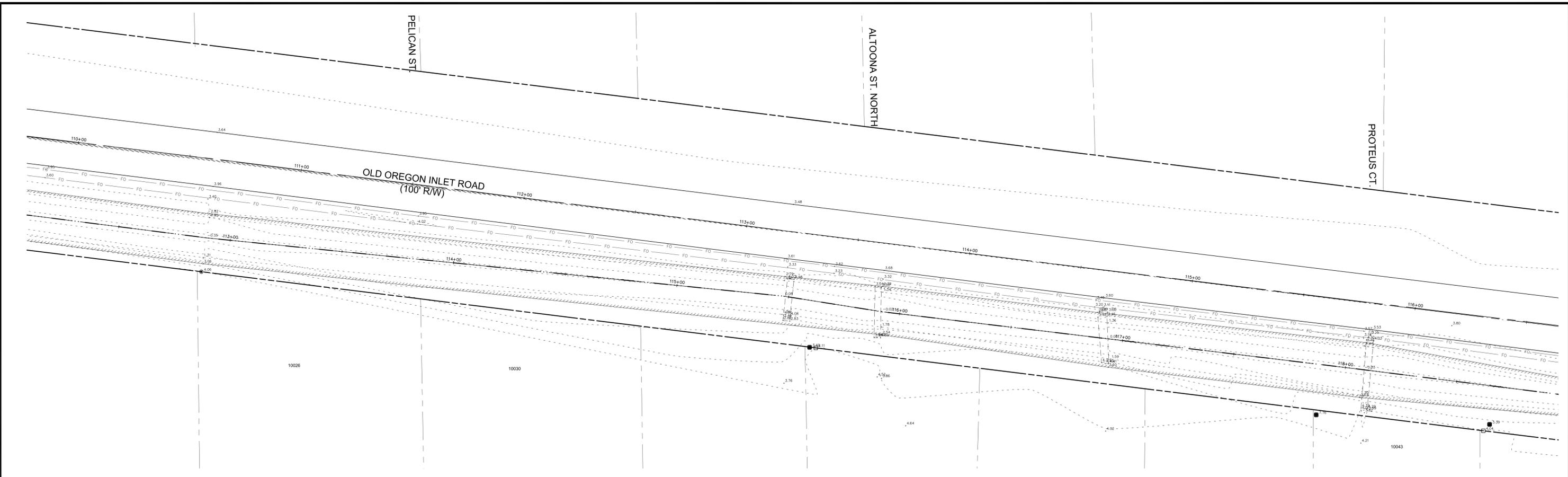
ISSUE DATE: 5/22/2015

DRAWING TITLE:

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 STA 104+50 - STA 111+00

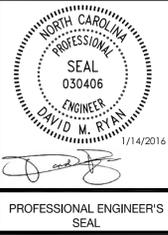
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SHEET NO.: SHEET 6 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

NAME	DATE
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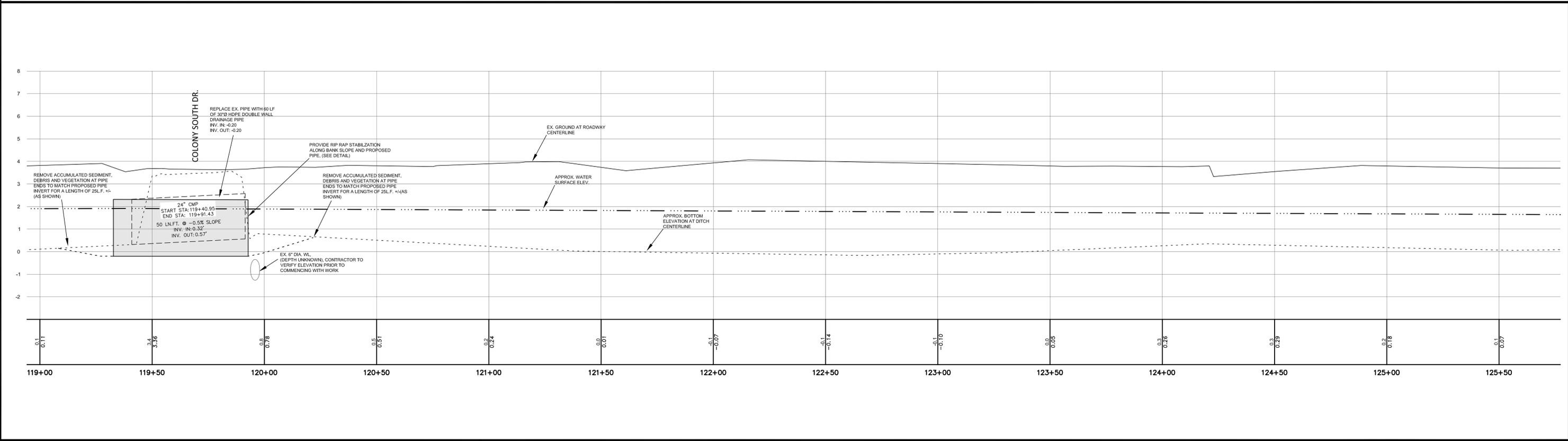
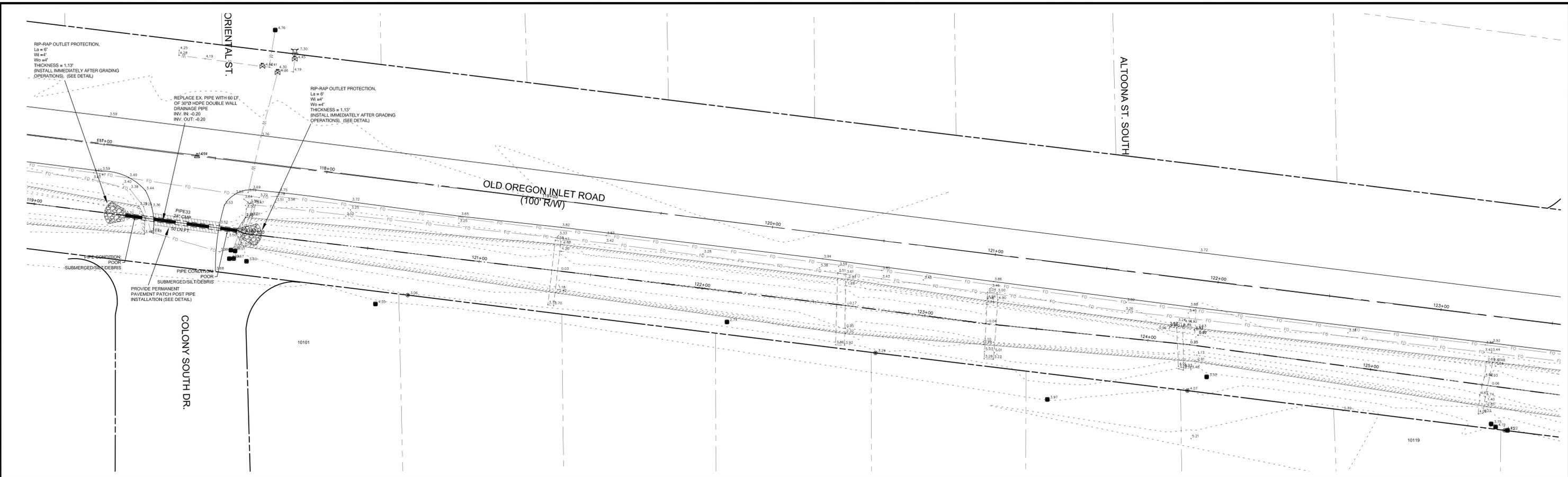
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ISSUE DATE: 5/22/2015

DRAWING TITLE:
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STA 111+00 - STA 118+10

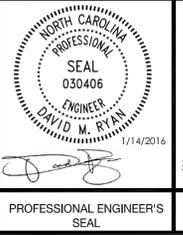
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SHEET NO.: SHEET 7 OF 14



NO.	DATE	REVISION	APPR'D	DATE
1	1/14/16	ISSUED FOR CONSTRUCTION, LOWERED CULVERT PIPE 0.1'	DMR	1/14/16

NAME	DATE
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Date: _____

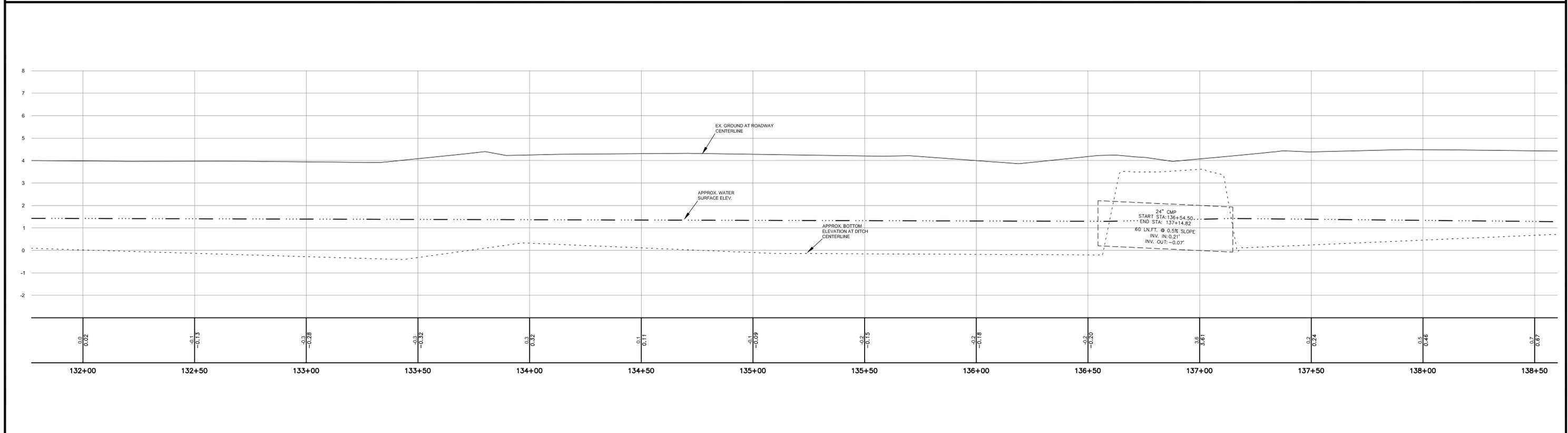
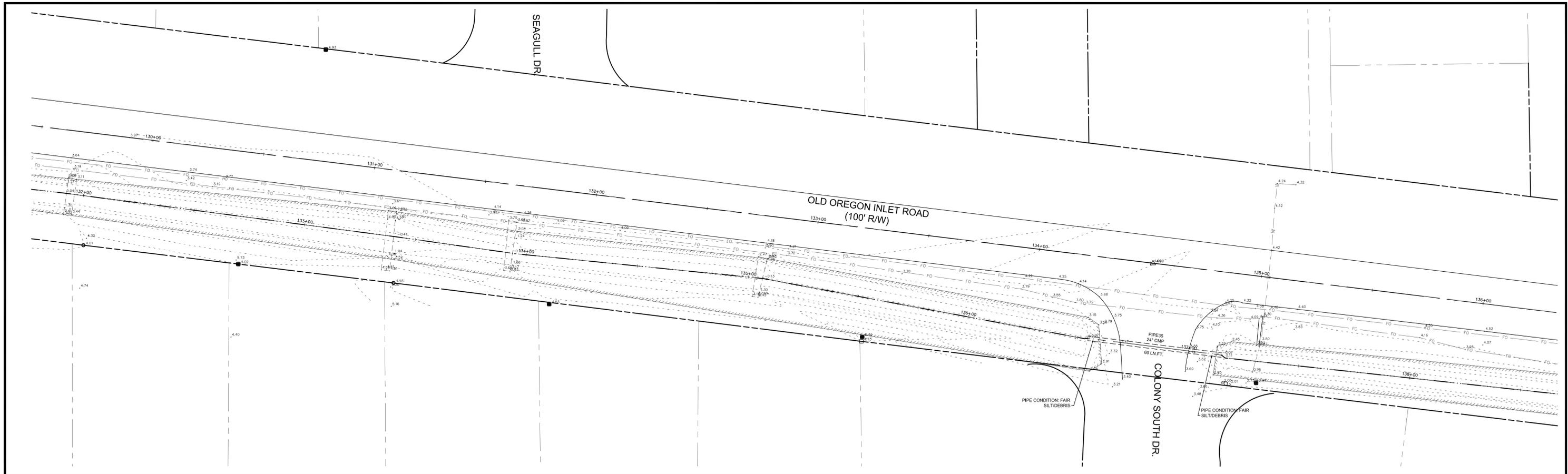
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DRAWING TITLE:
PLAN/PROFILE SHEET
STA 118+10 - STA 125+00
SCALE: 1" = 20' HOR.
1" = 2' VERT.
ISSUE DATE: 5/22/2015
DRAWING NO.: C8
SHEET NO.: SHEET 8 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

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DESIGNED BY:	DMR	05/22/15
CHECKED BY:	DMR	05/22/15
RECORD DWG:		



Signature: _____
Date: _____

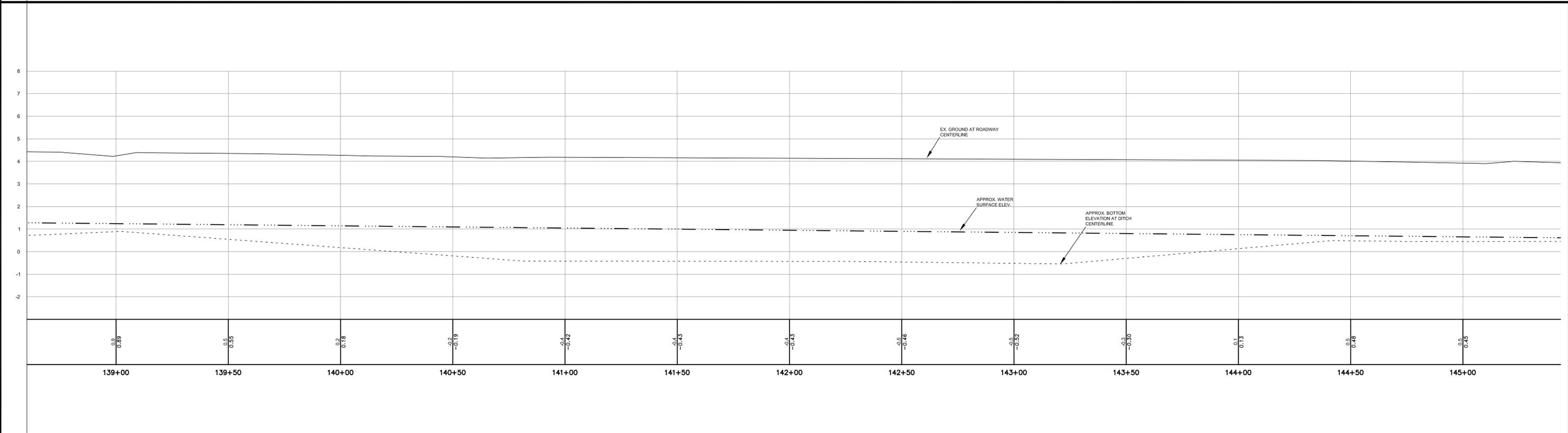
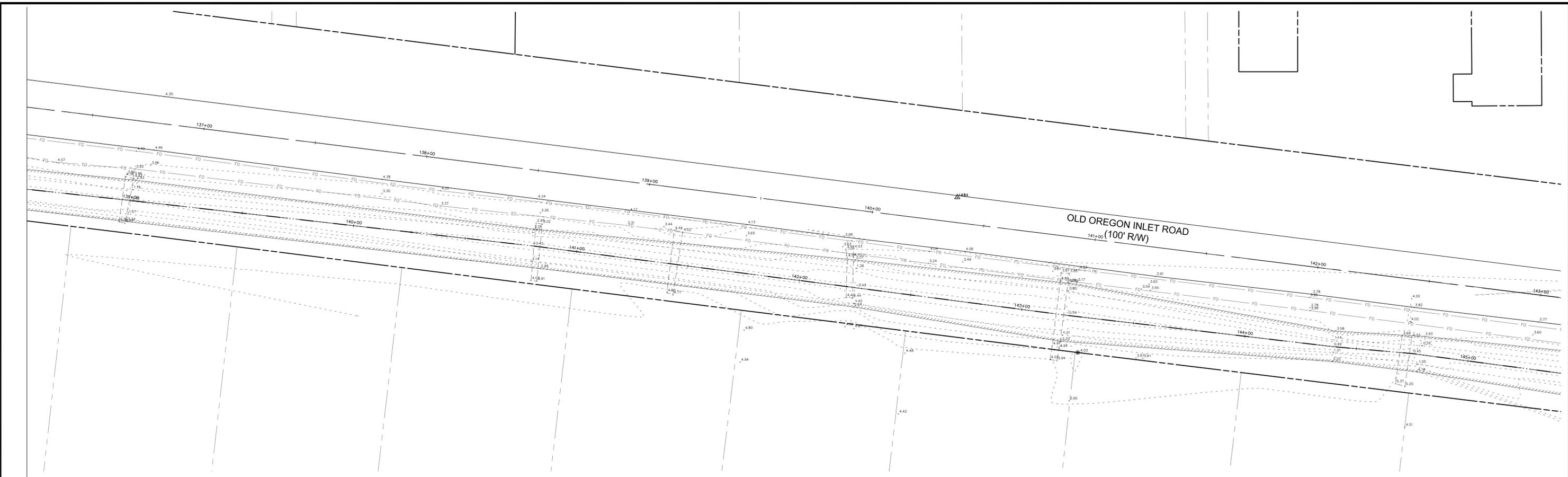
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FINAL RECORD DRAWING BY:
Company Name _____
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FISCAL YEAR 2014/2015
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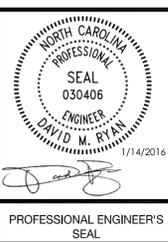
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DRAWING TITLE:
PLAN/PROFILE SHEET
STA 131+75 - STA 138+50
SCALE: 1" = 20' HOR.
1" = 2' VERT.
ISSUE DATE: 05/22/2015
DRAWING NO.: C10
SHEET NO.: SHEET 10 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION.	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

	NAME	DATE
DRAWN BY:	DMR	05/22/15
DESIGNED BY:	DMR	05/22/15
CHECKED BY:	DMR	05/22/15
RECORD DWG:		



Signature _____
Date _____

PROFESSIONAL ENGINEER'S SEAL

CONSTRUCTED BY:

Company Name _____ Date _____

FINAL RECORD DRAWING BY:

Company Name _____

Signature _____ Date _____

LAND SURVEYOR'S SEAL

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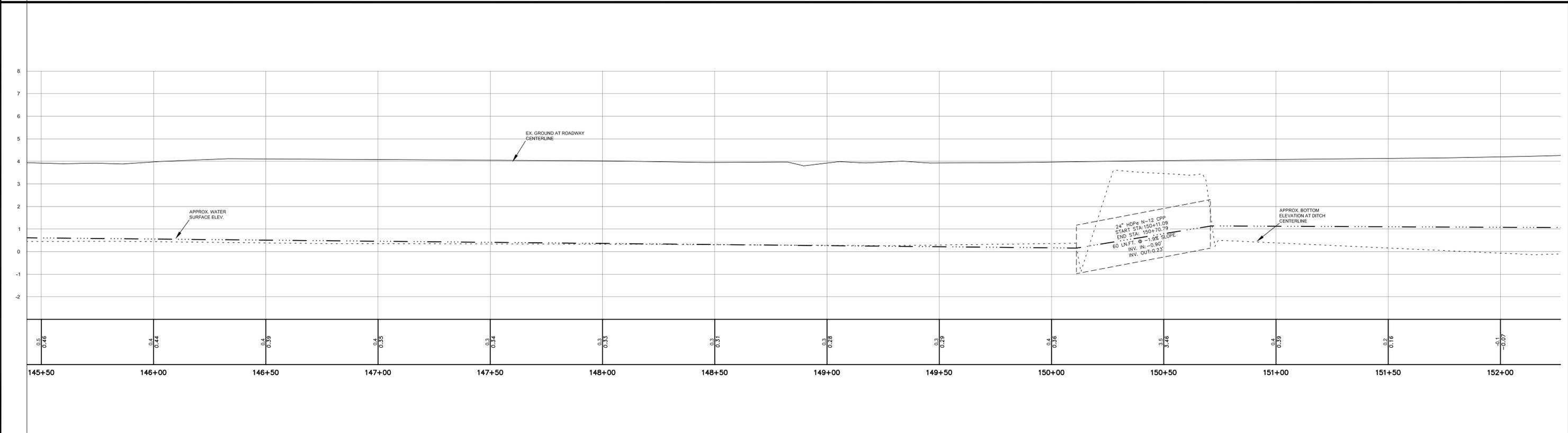
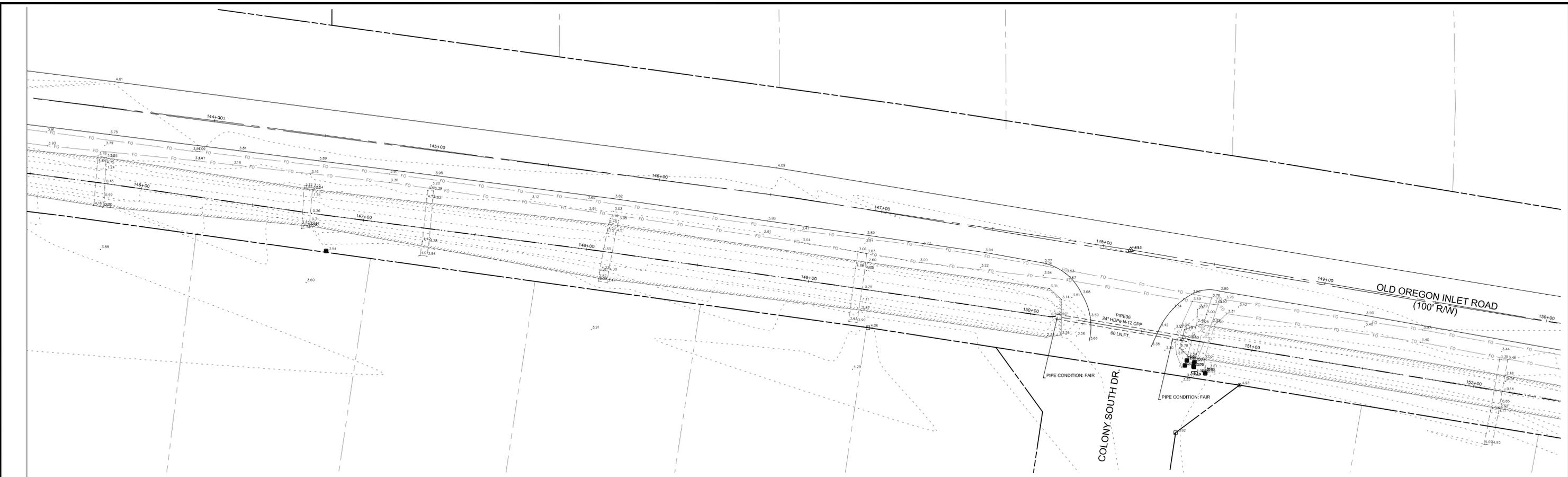
SCALE: 1" = 20' HOR.
1" = 2' VERT.

ISSUE 05/22/2015
DATE:

DRAWING TITLE:
**PLAN/PROFILE SHEET
STA 138+50 - STA 145+50**

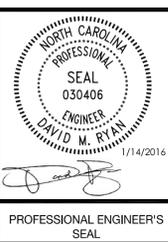
DRAWING NO.: C11

SHEET NO.: SHEET 11 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16
NO.	DATE	REVISION	APPR'D	DATE
			APPROVALS	

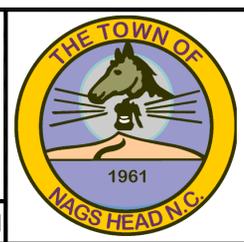
	NAME	DATE
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DESIGNED BY:	DMR	05/22/15
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Date: _____

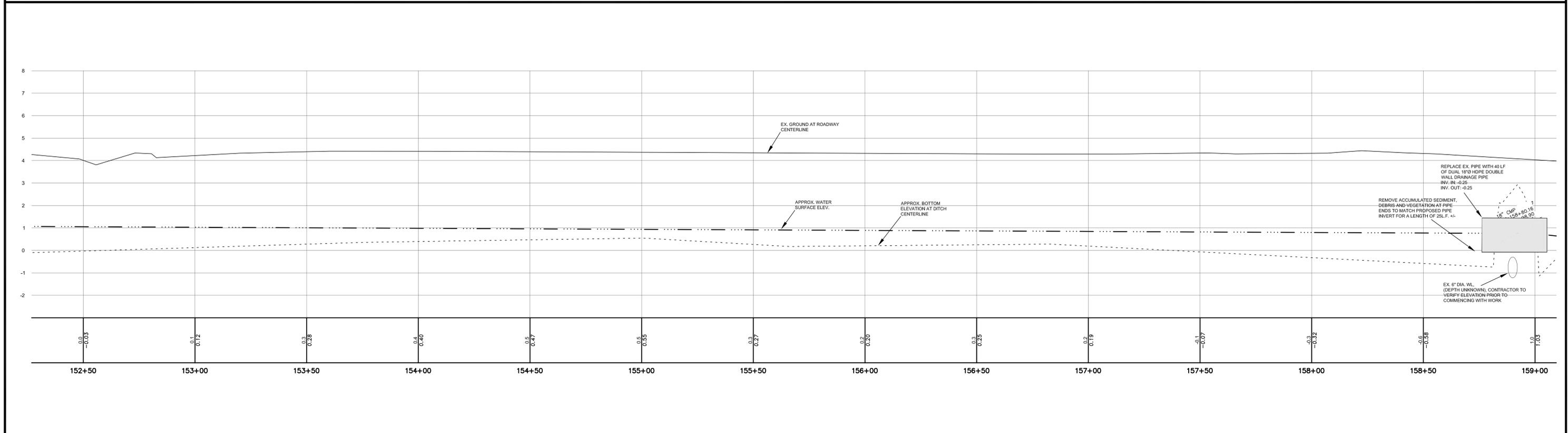
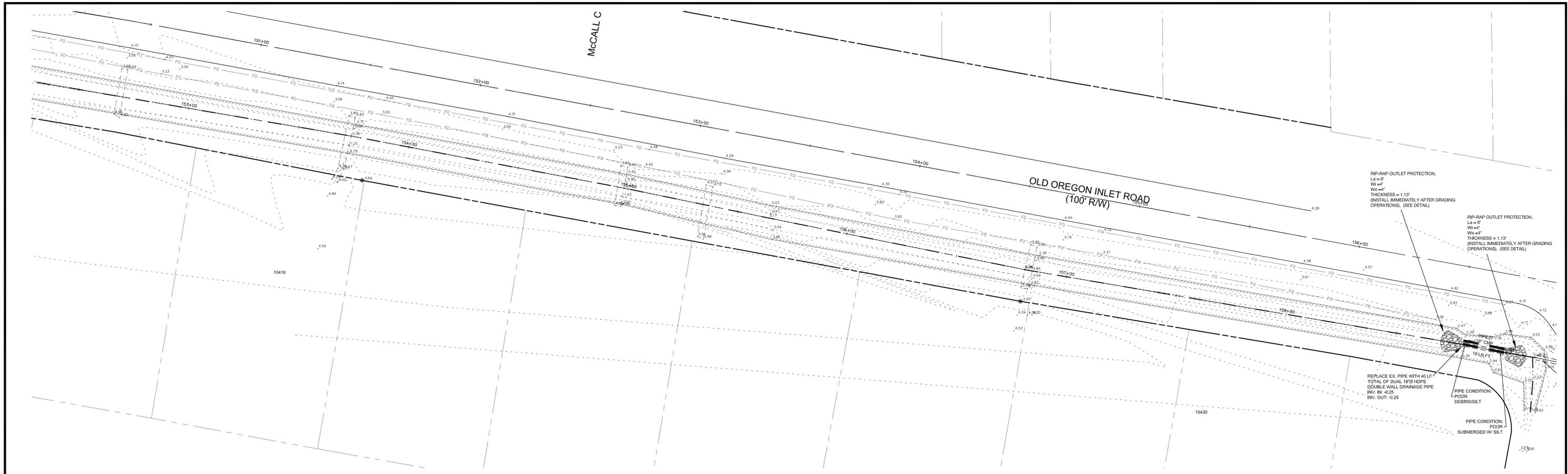
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PLAN/PROFILE SHEET
STA 145+50 - STA 152+25
SCALE: 1" = 20' HOR.
1" = 2' VERT.
ISSUE DATE: 05/22/2015
DRAWING NO.: C12
SHEET NO.: SHEET 12 OF 14



1	12/29/15	REVISED LF OF PIPE 37 REPLACEMENT	DMR	12/29/15
2	1/14/16	ISSUED FOR CONSTRUCTION, LOWERED CULVERT PIPE 0.15'	DMR	1/14/16
NO.		DATE	REVISION	APPR'D DATE
				APPROVALS

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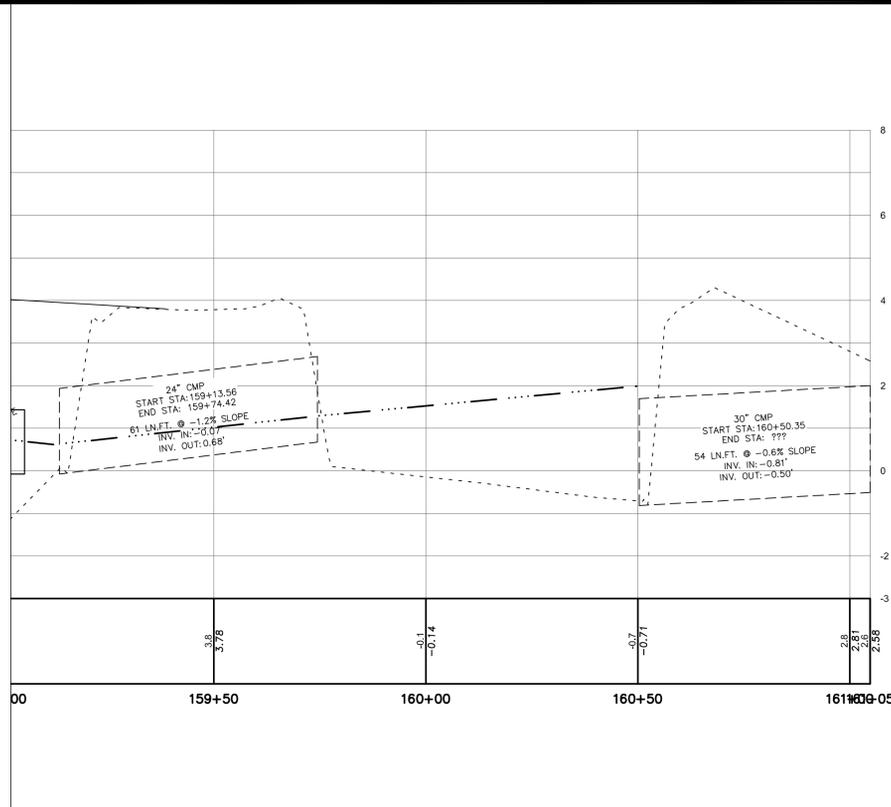
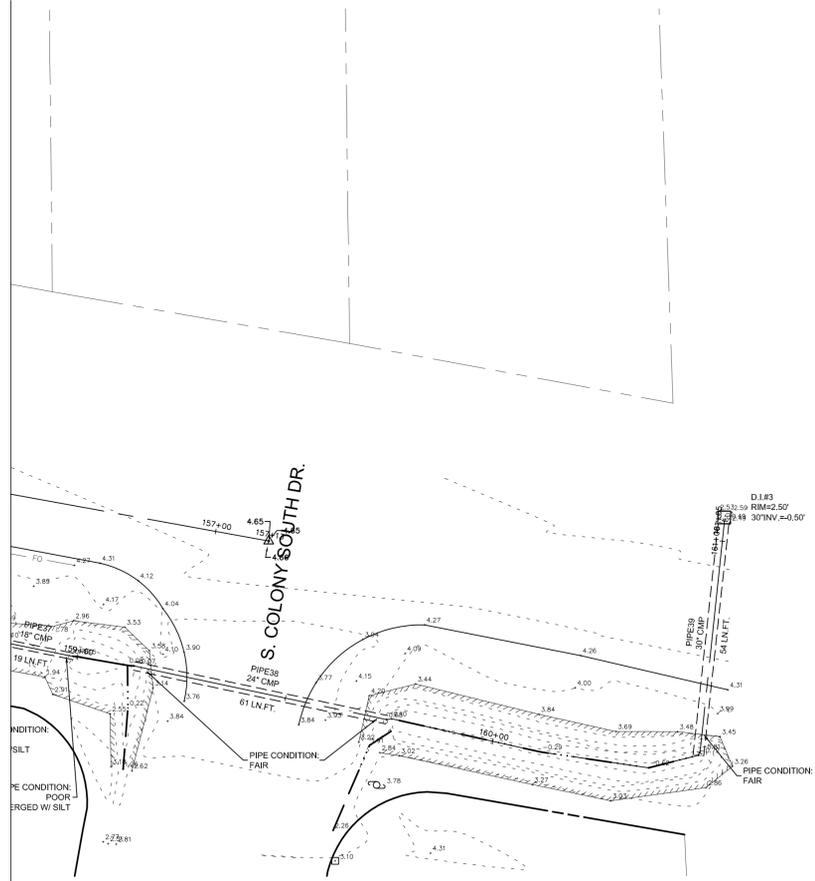
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**PLAN/PROFILE SHEET
STA 152+25 - STA 159+25**

DRAWING NO.: C13 SHEET NO.: SHEET 13 OF 14



1	1/14/16	ISSUED FOR CONSTRUCTION	DMR	1/14/16
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			APPROVALS	

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CHECKED BY: DMR	05/22/15
RECORD DWG: DMR	05/22/15

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