

# CIVIL ENGINEERING PLANS FOR FITCH DITCH IMPROVEMENTS BETWEEN 2nd AVE. N. & 8th AVE. N. FOR: CITY OF LAKE WORTH



CITY COMMISSION

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PUBLIC SERVICES DEPARTMENT

JAMIE BROWN - DIRECTOR  
FELIPE LOFASO - ASSISTANT DIRECTOR



SEC. 20 & 21 - TWP. 44S - RGE. 43E  
**LOCATION MAP**  
N.T.S.

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**FITCH DITCH IMPROVEMENTS**  
COVER SHEET

CDI PROJECT: 10290-01  
SHEET NO.  
**C0.0**  
DATE: 05/29/2013

**GENERAL NOTES:**

- COORDINATION OF DRAWINGS AND DISCIPLINES.** IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR COMPLETENESS AND ACCURACY. FURTHER, CONTRACTOR IS TO COORDINATE ALL TRADES AND DISCIPLINES PROPERLY. ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER IN WRITING.
- SAFETY.** IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE RESPECTIVE UTILITY PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND LINES. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE LINES.
- FAMILIARITY WITH SITE CONDITIONS.** THE CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT HIMSELF WITH ALL EXISTING CONDITIONS. MAKE HIS OWN SUBSURFACE INVESTIGATION TO SATISFY HIMSELF AS TO THE SITE AND SUBSURFACE CONDITIONS, BUT SUCH SUBSURFACE INVESTIGATIONS SHALL BE PERFORMED ONLY UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED IN ADVANCE BY THE OWNER. THE EXISTING GRADES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND NO REPRESENTATION IS MADE AS TO THEIR ACCURACY OR CONSISTENCY. THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES TO THE EXTENT NECESSARY TO INSURE COMPLETION OF THE JOB TO THE PROPOSED GRADES INDICATED ON THE DRAWINGS.
- WORKMANSHIP.** ALL WORK SHALL BE PERFORMED IN A WORKMANSHIP-LIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND/OR CODES, INCLUDING OSHA.
- ELEVATIONS.** ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).
- FIELD LOCATIONS & EXISTING UTILITIES.** THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC. (1-800-432-4770)" AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS FOR REMOVAL, RELOCATION AND ALTERATION OF THEIR EXISTING FACILITIES.
- PROTECTION OF UTILITIES.** THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF ALL EXISTING AND NEWLY INSTALLED ABOVE GROUND, UNDERGROUND, AND ON THE SURFACE STRUCTURES AND UTILITIES FROM DAMAGE OR SERVICE DISRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- EXISTING UTILITIES.** EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING UTILITIES SHOWN ON THE PLANS OR FOR ANY EXISTING UTILITIES THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS OF EXISTING UTILITIES. ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY PROVIDER IN A TIMELY MANNER TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY CAUSED DUE TO THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL COSTS ASSOCIATED WITH VERIFICATION, PROTECTION OF EXISTING SYSTEMS OR CONNECTION TO THOSE SYSTEMS AS IDENTIFIED ON THE PLANS IS INCLUDED IN THE CONTRACTOR'S BID.
- EXISTING UTILITIES.** PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES AND SOILS CONDITIONS AND SHALL NOTIFY THE OWNER IN THE EVENT OF ANY DISCREPANCIES WITH THE PLANS.
  - EXISTING UTILITIES.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
  - EXISTING UTILITIES.** IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
- FIELD REVIEWS.** THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY, LABOR AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, OWNER, INVOLVED UTILITY COMPANIES, AND REGULATORY AGENCIES. ALL RECOMMENDATIONS AND REQUIREMENTS OF INSPECTION PERSONNEL OTHER THAN THE OWNER'S SHALL BE REPORTED TO THE OWNER PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT PRE-AUTHORIZED BY THE OWNER.
- DIFFERING SITE CONDITIONS.** THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS PRIOR TO CONSTRUCTION IN THE AREA OF CONFLICT. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH ARE REPRESENTED ON THE PLANS, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER IN WRITING.
- REQUIRED PERMITS.** IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
- DEWATERING.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED FACILITIES AND SYSTEMS.
- USE OF EXISTING MATERIALS.** NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED PRIOR TO BID OPENING.
- EXISTING LANDSCAPE.** CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN ON THE PLAN OR DESIGNATED IN THE FIELD.
- SHOP DRAWINGS.** THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVEN (7) COPIES (OR MORE IF SPECIFIED IN THE CONTRACT) OF SHOP DRAWINGS, PRODUCT DATA, MATERIAL SPECIFICATIONS AND OTHER INFORMATION REGARDING CONSTRUCTION MATERIALS AND STRUCTURES AS REQUESTED BY THE OWNER, ENGINEER OR JURISDICTIONAL AGENCY. SHOP DRAWINGS MUST BE NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT WILL NOT BE CONSIDERED A SHOP DRAWING.
  - BY SUBMITTAL OF ANY SHOP DRAWING OR CATALOG DATA, BEARING AN APPROVAL STAMP, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, DIMENSIONS, CATALOG NUMBERS AND SIMILAR DATA, OR WILL DO SO, AND THAT IT HAS CHECKED AND COORDINATED EACH ITEM WITH OTHER APPLICABLE APPROVED SHOP DRAWINGS AND THE CONTRACT REQUIREMENTS.
  - SHOP DRAWINGS AND CATALOG DATA SUBMITTED WITHOUT THE CONTRACTOR'S STAMP OF APPROVAL WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW. APPROVAL OF SHOP DRAWINGS, SAMPLES, OR CATALOG DATA BY THE OWNER SHALL NOT AUTHORIZE ANY DEVIATION FROM THE REQUIREMENT OF THE CONTRACT DOCUMENTS.
  - ANY PROPOSED SUBSTITUTE OR EQUAL TO THE THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE ACCOMPANIED BY CALCULATIONS SUBSTANTIATING EQUIVALENCY. SHOP DRAWINGS WITH SUBSTITUTE MATERIALS NOT ACCOMPANIED BY CALCULATIONS WILL BE RETURNED WITHOUT REVIEW.
  - THE CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF THE PROJECT AND ADVISE THE OWNER IN WRITING OF ANY DISCREPANCIES.
  - INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
- TESTING.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE CONTRACTOR UNDERSTANDS THAT ANY AND ALL TESTS, INSPECTIONS, PROCEDURES INCLUDING ALL LABOR, MATERIALS, TIME AND EFFORT IN ORDER TO HAVE ALL WORK DESIGNATED AS FINAL BY THE RESPECTIVE JURISDICTIONAL AUTHORITIES AND THAT SUCH TESTS, INSPECTIONS AND PROCEDURES ARE INCLUDED IN THE BID.
- RECORD DRAWINGS.** RECORD DRAWINGS SHALL BE SUBMITTED IN SUFFICIENT QUANTITIES AS REQUIRED BY THE OWNER, ENGINEER AND JURISDICTIONAL AGENCIES TO COMPLETE THE CLOSE-OUT OF THE PROJECT.
  - THE CONTRACTOR SHALL PROVIDE THE CITY WITH ADEQUATE RECORD DRAWING INFORMATION, WHICH HAS BEEN PREPARED BY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA. THE INFORMATION SHALL BE PROVIDED ON A 24"x36" PLAN. THE SURVEYOR SHALL SIGN AND SEAL THE RECORD DRAWINGS. THE FOLLOWING SHALL BE THE MINIMUM REQUIREMENTS FOR RECORD DRAWING INFORMATION:
  - THE WORDS "RECORD DRAWINGS" SHALL BE WRITTEN IN BOLD LETTERS IN A CONSPICUOUS PLACE. NO RUBBER STAMP ON PLANS OR MYLARS SHALL BE ACCEPTED.

- THE DRAWINGS SHALL BE LEGIBLE AND THE AS-BUILT DIMENSIONS EASY TO IDENTIFY.
  - DATA FOR STORM STRUCTURES, PIPE SLOPES, AND PIPE LENGTHS AS CONSTRUCTED SHALL BE SHOWN ON THE PLAN SHEET NEXT TO "PROPOSED" DIMENSIONS. THE "PROPOSED" NUMBERS SHALL BE CROSSED OUT. IF THE ASBUILT CONDITION IS THE SAME AS THE PROPOSED INFORMATION, THEN THE PROPOSED INFORMATION WILL BE CROSSED OUT AND THE ASBUILT DATA WRITTEN.
- FINAL UTILITY ADJUSTMENTS.** ALL UTILITIES SHALL BE ADJUSTED TO NEW FINISH GRADES AND PROPERLY SET TO CROSS SLOPE AS REQUIRED.
  - REFERENCES.** WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). ALL REFERENCES ARE INCORPORATED INTO THE PLAN DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF THE LATEST EDITION OF THE REFERENCES.
  - MAINTENANCE OF TRAFFIC.** CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING A PROPER TRAFFIC MAINTENANCE AND CONTROL PLAN IN ACCORDANCE WITH REGULATORY STANDARDS. INCLUDED WILL BE THE LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT THAT PLAN. ALL WORK MUST BE DONE IN ACCORDANCE WITH AGENCY REQUIREMENTS AND ANY REQUIRED PERMITS OR APPROVALS MUST BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR.

**SITE DEMOLITION AND EROSION CONTROL NOTES:**

- SITE ACCESS.** SUITABLE STABILIZED ROADS ARE TO BE PROVIDED DURING CONSTRUCTION FOR FIRE AND PARAMEDICAL ACCESS.
- SITE.** CONTRACTOR ACCEPTS THE SITE AS IS. ANY REPAIRS TO EXISTING SITE ELEMENTS AS A RESULT OF CONTRACTOR OR SUBCONTRACTOR ACTIVITY - INCLUDING PAVEMENT, SIDEWALKS, CURBING, DRAINAGE, SANITARY SEWER, WATER, SIGNAGE & STRIPING - SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
- EROSION CONTROL.** THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND TURBIDITY BARRIERS PRIOR TO AND DURING CONSTRUCTION TO PREVENT VIOLATION OF STATE WATER QUALITY STANDARDS FOR OFFSITE DISCHARGES. THESE BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED, AND VEGETATION HAS BEEN ESTABLISHED. REFERENCE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDICES 102, 103 AND 106 FOR TYPICAL INSTALLATION DETAILS.
- FILTER FABRIC.** FILTER FABRIC SHALL BE INSTALLED ON ALL CATCH BASIN GRATES AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- ADJACENT IMPACTS.** CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, WETLANDS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
- SILT FENCES.** SILT FENCES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CLEARING PERIMETERS.
- SITE CLEARING.** CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEARED OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND. THIS DEBRIS SHALL BE DISPOSED OF IN A LEGAL MANNER. BURNING OF THIS MATERIAL IS NOT PERMITTED.
- TREE REMOVAL.** TREES AND VEGETATION SHOWN IN THESE DOCUMENTS TO BE CLEARED/REMOVED SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE. ALL STUMPS, ROOTS, RUBBISH, BRANCHES, ETC. SHALL BE CLEARED AND DISPOSED OF IN A LEGAL MANNER. TREE REMOVAL IS INCLUDED IN THE CLEARING & GRUBBING LINE ITEM ON SHEET C0.2 AND SHALL INCLUDE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES AS NEEDED TO CONSTRUCT THE IMPROVEMENTS ASSOCIATED WITH THIS PROJECT.

**PAVING, GRADING, AND DRAINAGE NOTES:**

- REFERENCES.** WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL FDOT INDICES ARE INCORPORATED AS PLAN REFERENCES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF THE LATEST EDITION OF THE FDOT INDICES.
- SITE FAMILIARIZATION.** PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC MATERIAL, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE AND MATERIALS TO BE DISPOSED OF OFFSITE. ANY DELAY, INCONVENIENCE OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- SITE FILL BALANCE.** IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL DURING THE BID PREPARATION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- RESTORATION.** ALL DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER AS DETERMINED BY THE OWNER AND RESPECTIVE JURISDICTIONAL AUTHORITY.
- HORIZONTAL CONTROL AND LAYOUT.** CONTRACTOR SHALL COORDINATE WITH A REGISTERED SURVEYOR TO LAY OUT LINE, GRADES, STRUCTURES, LOT CORNERS, ETC. AS NECESSARY TO CONSTRUCT THE PROPOSED FACILITIES IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. BENCH MARKS SHALL BE ESTABLISHED BY A REGISTERED SURVEYOR. BENCH MARKS SHALL BE PERMANENT AND EASILY ACCESSIBLE AND MAINTAINED AND REPLACED IF DISTURBED OR DESTROYED. HORIZONTAL CONTROL SHALL SIMILARLY BE ESTABLISHED AND MAINTAINED.
- CLEARING, GRADING AND DISPOSAL.** CLEARING AND GRADING SHALL CONFORM TO SECTION 110 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. CLEARING SHALL BE CONTAINED TO THE CONSTRUCTION AREA AND/OR AS DIRECTED BY THE OWNER AND/OR HIS REPRESENTATIVE. ALL ROOTS, STUMPS, OR OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 18" BELOW NATURAL GRADE OR DESIGN GRADE WHICHEVER IS LOWER. ALL DEBRIS SHALL BE REMOVED FROM THE AREA AND BE DISPOSED OF LEGALLY.
- EXCAVATION AND EMBANKMENT.** ALL EXCAVATION AND EMBANKMENT SHALL CONFORM TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- EARTHWORK.** NO SEPARATE PAYMENT SHALL BE PROVIDED TO THE CONTRACTOR FOR EARTHWORK ASSOCIATED WITH THIS CONTRACT. ALL COSTS ASSOCIATED WITH SITE PREPARATION NECESSARY TO EXECUTE THE WORK SET FORTH IN THE CONTRACT SHALL BE INCLUDED IN THE BID.
- EXCESS MATERIAL.** ANY EXCESS MATERIAL REMAINING UPON COMPLETION OF CONSTRUCTION SHALL BE REMOVED TO AN ACCEPTABLE LOCATION AT THE EXPENSE OF THE CONTRACTOR. AT THE OWNER'S OPTION, A LOCATION MAY BE IDENTIFIED FOR MATERIAL STOCK PILING OR THE OWNER MAY INSTRUCT THE CONTRACTOR TO REMOVE THE EXCESS MATERIAL IN WHICH CASE THE CONTRACTOR IS TO LEGALLY DISPOSE OF ALL MATERIALS OFFSITE.
- FINISHED SITE GRADING.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL GRADING OF THE SITE TO WITHIN ±0.1 FOOT OF ALL THE PROPOSED FINISHED GRADE ELEVATIONS THROUGHOUT THE PROJECT SITE AS DEPICTED ON THE PLANS. ELEVATIONS OF CONSTRUCTED FACILITIES, I.E. STRUCTURES, DRAINAGE, ETC. ARE TO BE AS INDICATED ON THE PLANS UNLESS APPROVED DIFFERENTLY IN WRITING.
- DITCH AREAS.** ALL ORGANIC AND OTHER UNSUITABLE MATERIAL IN DITCH AREAS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH SOUND CONSTRUCTION PRACTICES.
- LANDSCAPE AREAS.** ALL LANDSCAPE AREAS SHALL CONTAIN SUITABLE LANDSCAPE MATERIAL FOR LANDSCAPE INSTALLATION. ALL LANDSCAPE AREAS SHALL BE SUITABLY SLOPED TO PROVIDE POSITIVE DRAINAGE.
- SOD AREAS.** ELEVATIONS OF GRASSED AREAS ARE GIVEN AT FINISHED SOD/SEED GRADE. CONTRACTOR TO GRADE AREAS RECEIVING SOD LOWER TO ACCOMMODATE SOD THICKNESS.

- UNSUITABLE MATERIALS.** WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH AND AREA DETERMINED BY THE OWNER. BACKFILLING SHALL BE IN LAYERS NOT GREATER THAN 8" THICKNESS AND COMPACTED TO 98 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. ANY UNSTABLE SOIL AND/OR SOIL CONTAINING ORGANIC MATERIAL ENCOUNTERED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO MUCK, SILT, SLUDGE, AND MARL SHALL BE REMOVED AND SHALL BE REPLACED BY MATERIAL ACCEPTABLE TO THE OWNER. IF ANY ROCK, HARDPAN, ETC. IS ENCOUNTERED DURING CONSTRUCTION OF ANY ITEMS, THE REMOVAL AND BACKFILL REQUIRED SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THAT ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
- GRADING.** GRADING FROM PROPOSED TO EXISTING CONDITIONS SHALL NOT BE STEEPER THAN 3H:1V NOR FLATTER THAN 50H:1V. ALL SWALES AND SLOPES SHALL BE SODDED AFTER GRADING.
- ELEVATIONS.** ELEVATIONS GIVEN ARE CONSIDERED FINISHED GRADES UNLESS OTHERWISE NOTED.
- POSITIVE DRAINAGE.** CONTRACTOR IS RESPONSIBLE FOR GRADING ALL AREAS TO DRAIN POSITIVELY. SHOULD AREAS OF POOR DRAINAGE BE OBSERVED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO PLACEMENT OF SOD SO THAT RECOMMENDATIONS FOR CORRECTION CAN BE MADE.
- DRAINAGE STRUCTURES.** ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AS PER THE PLANS AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). ALL GRATES SHALL BE SECURED TO THE DRAINAGE STRUCTURE WITH A CHAIN AND EYEBOLT.
- PIPE LENGTHS.** PIPE LENGTHS SHOWN ON THE PLANS REPRESENT SCALED DISTANCES BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS.
- PIPE INSTALLATION.** PIPE TRENCH SHALL BE DRY WHILE PIPE IS BEING LAID AND TO BE BEDDED PER DETAIL AND IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). ALL CORRUGATED PIPES SHALL BE INSTALLED WITH MAXIMUM LENGTHS IN ORDER TO MINIMIZE JOINTS.
- PIPE TRENCHES.** PIPE TRENCHES TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
- DRAINAGE PIPING.** ALL DRAINAGE PIPES TO BE REINFORCED CONCRETE PIPE (RCP) UNLESS NOTED OTHERWISE ON THE PLANS.
- REINFORCED CONCRETE PIPE (RCP).** REINFORCED CONCRETE PIPE (RCP) SHALL BE PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. INSTALLATION OF RCP SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS (LATEST EDITION).
- DRAINAGE CONNECTIONS.** CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF DEBRIS AND SILT WHERE CONNECTIONS TO EXISTING DRAINAGE STRUCTURES OR SWALES ARE TO BE PERFORMED. SWALES, DITCHES, LAKES, ETC. SHALL BE RESTORED TO THEIR ORIGINAL DESIGN SECTION AND SODDED. SUCH REMOVAL AND RESTORATION SHALL BE TO THE POINT OF LEGAL, POSITIVE OUTFALL.
- DRAINAGE JOINT WRAPPING.** ALL DRAINAGE PIPE JOINTS TO BE WRAPPED IN FILTER FABRIC PER FDOT INDEX 280. THE FIRST JOINT OF PIPE ENTERING OR LEAVING A DRAINAGE STRUCTURE SHALL BE WRAPPED WITH FILTER FABRIC PER FDOT SPECIFICATIONS.
- UTILITIES BY OTHERS.** AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL PROVIDE ACCESS AND ALLOW FOR COORDINATION SERVICES TO ACCOMMODATE UTILITIES, CONDUIT AND/OR SLEEVE CONSTRUCTION BY OTHERS. ANY UTILITIES, CONDUITS AND/OR SLEEVES INSTALLED BY OTHERS AND DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- FIELD REVIEWS.** FIELD REVIEWS OF CONSTRUCTED FACILITIES WILL BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR IS TO NOTIFY THE OWNER A MINIMUM OF 48 HOURS PRIOR TO THE REQUESTED TIME FOR REVIEW OF THE COMPLETED ITEMS. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO ACCOMMODATE THE FIELD REVIEW. THESE REVIEWS INCLUDE BUT ARE NOT LIMITED TO:
  - GRADING - PRIOR TO SOD INSTALLATION REVIEW
  - DRAINAGE REVIEW
  - SEMI-FINAL AND FINAL REVIEWS
- COMPLETENESS FOR REVIEW.** FACILITIES MUST BE COMPLETED PRIOR TO SCHEDULING THE FIELD REVIEW. IF A FIELD REVIEW FAILS TO MEET THE AGENCY REQUIREMENTS AND AN ADDITIONAL REVIEW IS REQUIRED, THE CONTRACTOR WILL BE RESPONSIBLE TO PAY ANY FEES ASSOCIATED WITH THE ADDITIONAL REVIEW.
- TESTING.** TESTING OF CONSTRUCTION MATERIALS AND/OR CONSTRUCTED FACILITIES WILL BE REQUIRED AS OUTLINED IN THE GOVERNING SPECIFICATIONS AS NECESSARY TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES. ALL TESTING IS TO BE DONE BY A FLORIDA LICENSED TESTING LABORATORY. THE CONTRACTOR IS TO SUBMIT ALL REQUIRED TESTS ON UTILITY EMBANKMENT, BACKFILL AND SURFACE COURSE MATERIAL TO THE OWNER PRIOR TO ANY REQUEST FOR PAYMENT. IF ANY TESTS FAIL TO MEET THE SPECIFICATIONS, THE CONTRACTOR, AT ITS EXPENSE, SHALL CORRECT ALL DEFICIENT WORK AND SUBMIT TEST RESULTS INDICATING COMPLIANCE WITH THESE SPECIFICATIONS PRIOR TO ANY REQUEST FOR PAYMENT.
- DENSITY TESTING.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE FILL MATERIAL, PIPE BASE MATERIAL AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING THE AREAS AND SHALL PROVIDE THE OWNER COPIES OF ALL TEST RESULTS. ALL REPORTS ARE TO BE SIGNED AND SEALED BY A REGISTERED GEOTECHNICAL ENGINEER IN THE STATE OF FLORIDA.
- VERTICAL DISTRIBUTION OF DENSITY TESTING.** NUCLEAR DENSITY COMPACTION TESTS ARE TO BE TAKEN ON EVERY LIFT PLACED (12" MAXIMUM THICKNESS), STARTING WITH THE SOIL AT THE SPRINGLINE OF THE UTILITY OR AT THE BASE OF ANY STRUCTURE AND PROCEEDING UPWARD TO GRADE AT THE LOCATIONS DEFINED BY THE HORIZONTAL DISTRIBUTION OF DENSITY TESTING NOTE. IF THICKER LIFTS ARE APPROVED AND IMPLEMENTED, DENSITY TESTING SHALL BE PERFORMED VIA DIG DOWNS TO SUFFICIENT DEPTH TO TEST EACH 12 INCHES FOR THE FULL THICKNESS OF LIFT.
- HORIZONTAL DISTRIBUTION OF DENSITY TESTING.** DENSITY TESTING SHALL BE PERFORMED AT THE FOLLOWING MINIMUM LOCATIONS WITH HORIZONTAL SPACING PER THE VERTICAL DISTRIBUTION OF DENSITY TAKING NOTE. MORE SPECIFICALLY:
  - PIPE TRENCHES - TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF A PIPE INSTALLATION, AND BETWEEN EACH SET OF STRUCTURES SEPARATED BY LESS THAN 300 FEET. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12 INCH BACKFILL LAYER, STARTING WITH THE FIRST TEST PERFORMED AT THE PIPE SPRINGLINE (COVERING THE 12" LAYER BELOW SPRINGLINE ELEVATION).
  - STRUCTURES - TESTS SHALL BE PERFORMED AT EACH STRUCTURE. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12 INCH BACKFILL LIFT, STARTING WITH THE FIRST TEST PERFORMED AT THE BASE OF THE STRUCTURE (COVERING THE 12" LAYER BELOW BASE ELEVATION).



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CHECKED: JT

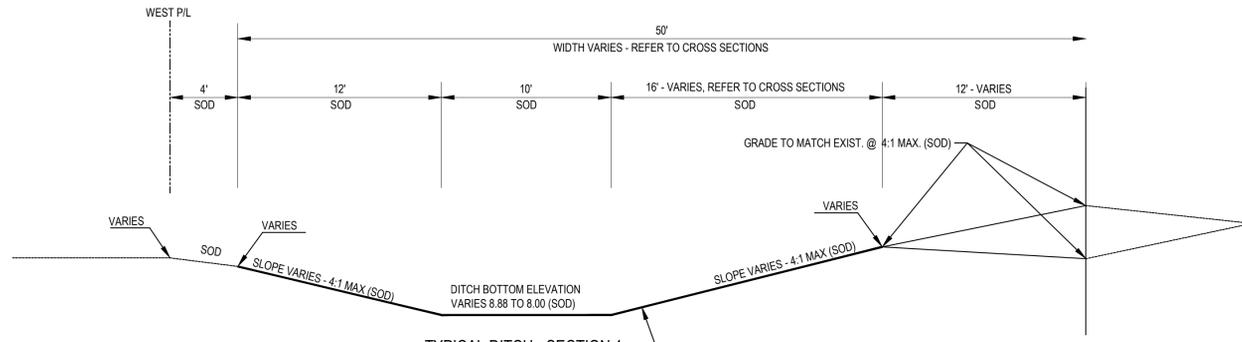
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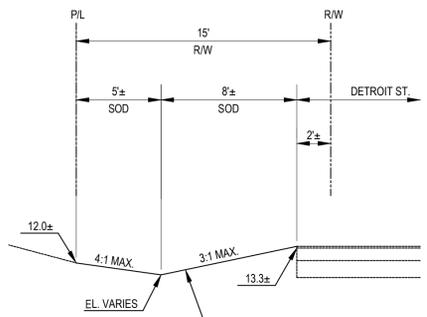
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**FITCH DITCH IMPROVEMENTS**  
GENERAL NOTES & SPECIFICATIONS

CDI PROJECT: 10290-01  
SHEET NO.  
**C1.1**  
DATE: 05/29/2013



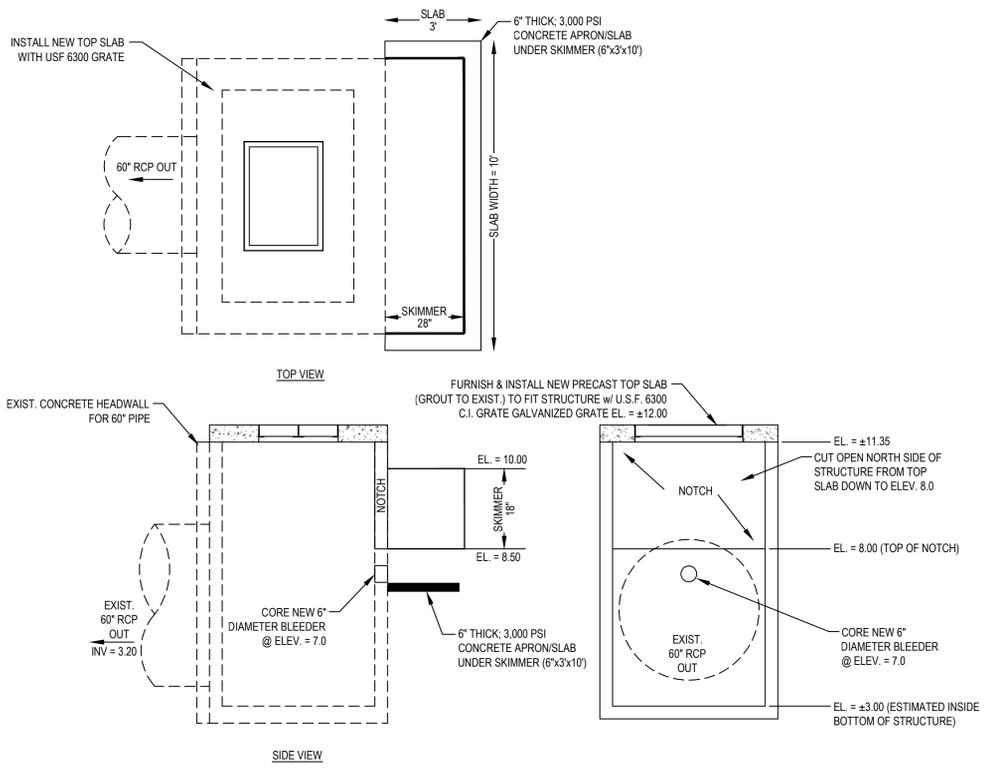
**TYPICAL DITCH - SECTION 1**  
 STA: 25+18 to 42+36  
 SCALE: 1" = 5'



**TYPICAL DITCH - SECTION 2**  
 STA: 46+00 - 49+00  
 SCALE: 1" = 5'

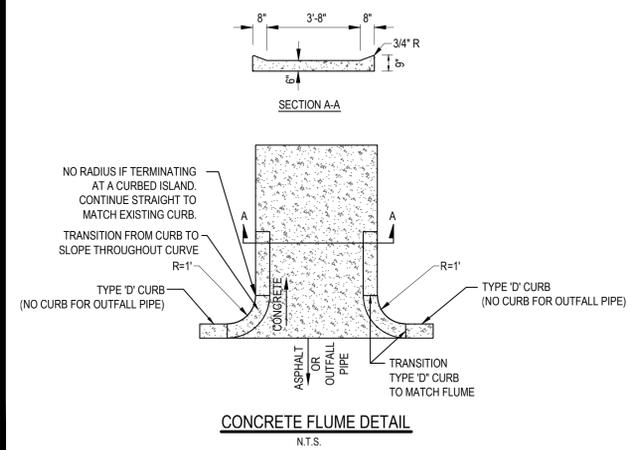
SUMMARY OF QUANTITIES				
ITEM NO.	ITEM	QTY	UNIT	REMARKS
1	MOBILIZATION	1	LS	INCLUDES BONDS, INSURANCE, PRE-CON VIDEO, REPORTS, SAFETY, STAGING AREA, ETC.
2	NPDES COMPLIANCE	1	LS	INCLUDES ALL REQUIRED REPORTS (INCLUDING RAINFALL MONITORING)
3	SILT FENCE	70	LF	INCLUDES REGULAR MAINT., MONITORING, & REPLACEMENT UNTIL PROJECT ACCEPTANCE
4	CLEARING & GRUBBING	2,410	LF	INCLUDES TRASH, DEBRIS, UNSUITABLE SOILS, TREE & STUMP REMOVAL
5	DITCH GRADING	2,410	LF	INCLUDES ALL EARTHWORK, COMPACTION, FILL, UTILITY ADJUSTMENTS & POLE RESTRAINTS
6	CONSTRUCTION STAKING & RECORD DRAWINGS	1	LS	
7	SOD (BAHIA)	11,900	SY	INCLUDES WATER, STAKING/PINNING AS REQ'D TO ESTABLISH SOD (90 DAY MIN)
8	CONCRETE ENDWALL	2	EA	PER FDOT INDEX NO. 250
9	12" HDPE CULVERT	10	LF	WRAP JOINTS/STRUCTURE ENTRANCE PER FDOT INDEX NO. 280
10	FDOT TYPE C INLET	1	EA	
11	CLEAN & DESILT DRAINAGE SYSTEM	1	LS	DESILT/CLEAN ALL CULVERTS CONNECTING TO DITCH
12	REPLACE SIGN	1	EA	REPLACE BROKEN POST FOR SIGN NORTH OF 7TH AVE. N
13	ADJUST EXIST. CONCRETE FLUME (EAST SIDE OF DITCH)	1	ALW	ALLOWANCE TO BE PROVIDED IN BID TO ADJUST/MAINTAIN EXIST. OUTFALL STRUCTURE
14	REPLACE/INSTALL CONCRETE FLUMES	4	EA	REPLACE 3 EXIST. FLUMES NORTH OF 7TH AVE. N & 1 NEW FLUME AT OUTFALL PIPE
15	EXIST STRUCTURE MODIFICATIONS	1	EA	MODIFY EXIST. DRAINAGE STRUCTURE PER PLAN & DETAIL (STA ±24+65)
16	CONCRETE/TRASH/DEBRIS REMOVAL	1	ALW	ALLOWANCE TO BE PROVIDED IN BID BASED ON A COST PER WEIGHT (LBS) OR VOLUME (CY)
17	BID ALTERNATE - PETRAFLEX FOR DITCH BOTTOM	22,300	SF	PROVIDE ALTERNATE TO UNDERCUT DITCH BOTTOM 12", INSTALL CLEAN FILL, GEOFABRIC & PETRAFLEX ARTICULATED CONCRETE BLOCK (OR APPROVED EQUAL)

- NOTES:**
- QUANTITIES ARE FOR CONTRACTOR'S REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES PRIOR TO BID SUBMITTAL; ALL DISCREPANCIES SHALL BE SUBMITTED IN WRITING PRIOR TO SUBMITTAL OF BID.
  - QUANTITIES AND BID UNIT PRICES ARE FOR ESTABLISHMENT OF A SCHEDULE OF VALUES ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR FURNISHING ALL LABOR & MATERIALS REQUIRED TO COMPLETE THE PROJECT AS SHOWN IN THESE CONSTRUCTION DOCUMENTS AND THE CONTRACT. ALL ITEMS REQUIRED TO COMPLETE THE PROJECT AND NOT SPECIFICALLY LISTED ABOVE SHALL BE CONSIDERED INCIDENTAL & SHALL BE PROVIDED AS PART OF THE SUBMITTED BASE BID.
  - CONTRACTOR SHALL PROVIDE SIGNED RELEASE OF LIEN FORMS FROM EACH SUBCONTRACTOR WITH EACH PAY APPLICATION.
  - ALL MATERIALS & WORK SHALL BE WARRANTED FOR A MINIMUM OF ONE YEAR FOLLOWING PROJECT FINAL ACCEPTANCE.
  - CONTRACTOR IS RESPONSIBLE FOR SCHEDULING & MANAGING ALL WORK. ADDITIONAL TESTING & INSPECTIONS RESULTING FROM CONTRACTOR'S FAILURE TO MANAGE THE CONSTRUCTION SCHEDULE OR FROM FAILURE TO MEET PROJECT SPECIFICATIONS SHALL BE PAID FOR BY THE CONTRACTOR.
  - ALL CHANGES TO THE CONSTRUCTION CONTRACT FOLLOWING AWARD OF CONTRACT SHALL BE BASED ON THE UNIT PRICES PER THE APPROVED SCHEDULE OF VALUES.
  - NO PAYMENT WILL BE MADE FOR CHANGES WHICH ARE NOT SPECIFICALLY APPROVED IN ADVANCE BY THE CITY OF LAKE WORTH.
  - INCIDENTAL CONSTRUCTION & INSTALLATION ITEMS ARE TO BE INCLUDED IN THE ABOVE QUANTITIES.
  - TREE INFORMATION SHOWN WITHIN THESE PLANS IS BASED ON AVAILABLE SURVEY DATA. CONTRACTOR SHALL REMOVE EXIST. TREES AND VEGETATION AS REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS.
  - ALL EXISTING & PROPOSED CULVERTS AND ENDWALLS CONNECTING TO THE DITCH SHALL BE CLEANED AND DESILTED PRIOR TO FINAL TURNOVER.
  - CONTRACTOR IS ADVISED THAT THERE IS BURIED CONCRETE AND TRASH LOCATED SPORADICALLY WITHIN THE PROJECT LIMITS. IF ENCOUNTERED, THESE MATERIALS ARE TO BE BROUGHT TO THE ATTENTION OF THE CITY AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. THIS COST IS TO BE INCLUDED AS AN ALLOWANCE IN ITEM 16.
  - ITEM 17 IS A BID ALTERNATE TO PROVIDE AN ARTICULATED BLOCK INSTALLATION ON THE BOTTOM OF THE DITCH (TYPICAL SECTION 1).

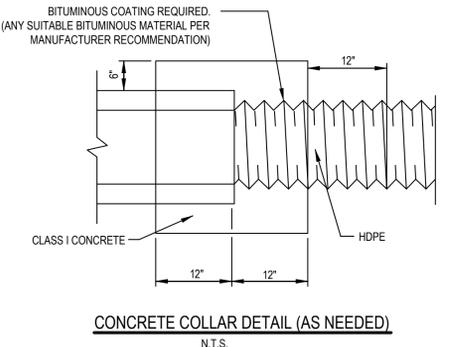


**STRUCTURE MODIFICATIONS DETAILS**  
 N.T.S.

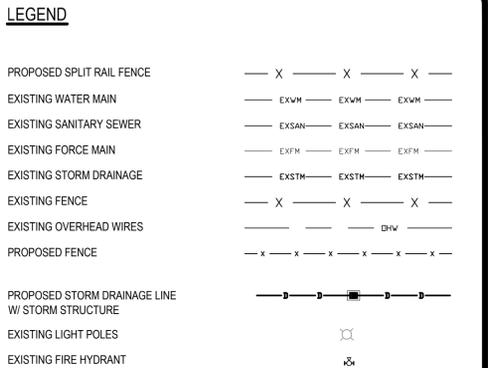
- NOTES:**
- ALL MODIFIED AREAS & SLOPES ABOVE C.W.E. SHALL BE SODDED PRIOR TO FINAL WALK THROUGH.
  - CONTRACTOR SHALL PROVIDE TURF REINFORCEMENT MATTING (TRM) OR EROSION CONTROL BLANKET (ECB) IF DITCH BANK WASHES-OUT PRIOR TO ESTABLISHMENT OF SOD. ALL MODIFIED AREAS SHALL BE COMPACTED TO 90% OF AASHTO T-99 MAX. DRY DENSITY, UNLESS OTHERWISE NOTED.



**CONCRETE FLUME DETAIL**  
 N.T.S.

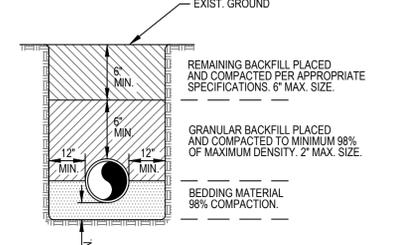


**CONCRETE COLLAR DETAIL (AS NEEDED)**  
 N.T.S.



**ABBREVIATIONS**

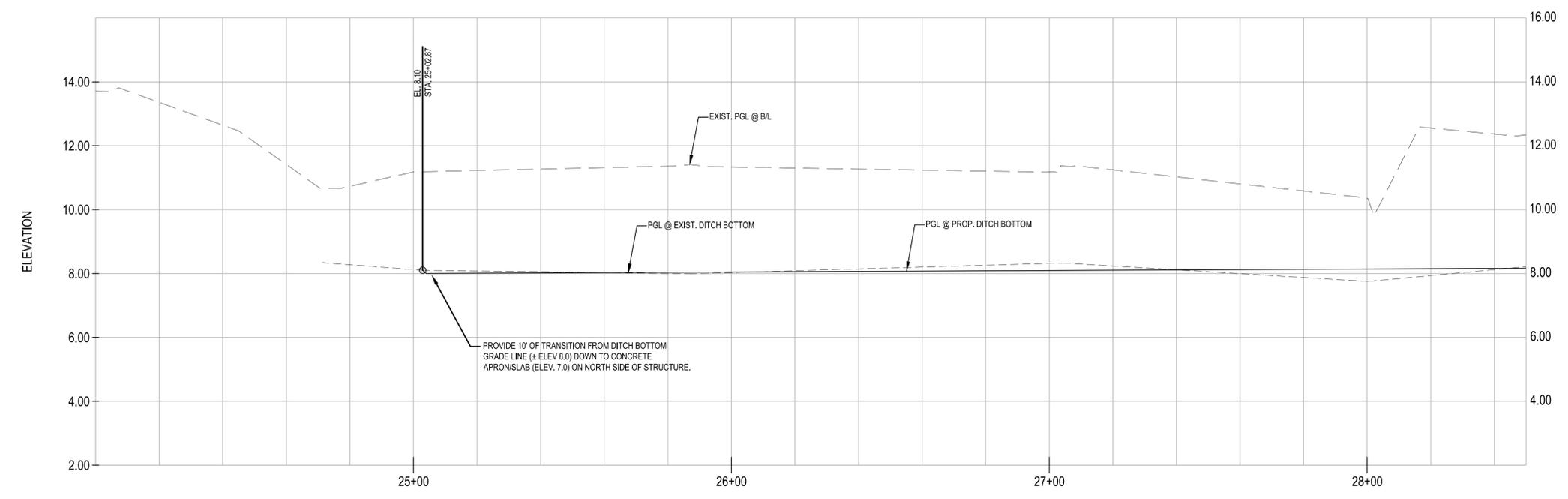
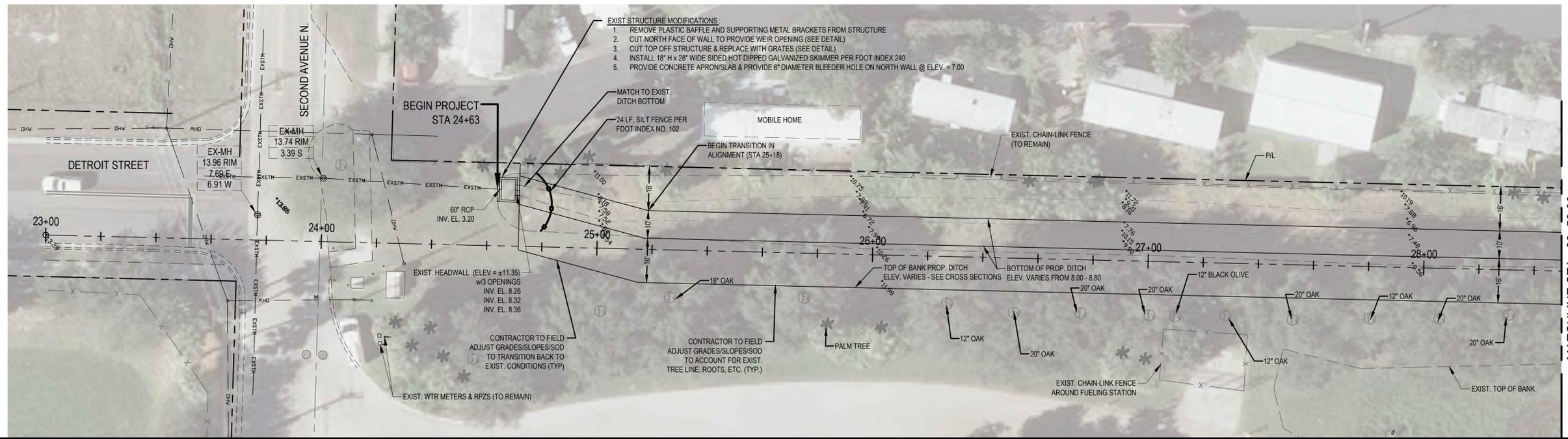
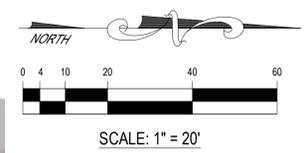
BACKFLOW PREVENTION ASSEMBLY	RPZ
BUFFER EASEMENT	B.E.
BUTTERFLY VALVE	BFV
CLEANOUT	CO
CONCRETE	CONC.
CONTROL WATER ELEVATION	C.W.E.
CORRUGATED ALUMINUM PIPE	CAP
DOUBLE CHECK DETECTOR ASSEMBLY	DCDA
EXISTING	EXIST. / EX
FIRE HYDRANT	FH
GATE VALVE	GV
LAKE MAINTENANCE EASEMENT	L.M.E.
MANHOLE	MH
MINIMUM	MIN.
POLYVINYL CHLORIDE	PVC
PROPOSED	PROP.
PROPERTY LINE	P.L.
RAINWATER LEADER	RWL
REINFORCED CONCRETE PIPE	RCP
RIGHT-OF-WAY	R.W.
SANITARY	SAN
SERVICE	SVC
SIZE DIAMETER RATIO	SDR
STORM	STM
STORM MANHOLE	SMH
TYPICAL	TYP
UNKNOWN	UNK
UTILITY EASEMENT	U.E.
WATER	WTR
WATERMAIN	WM



**TRENCH DETAIL**  
 N.T.S.

- NOTES:**
- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
  - THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
  - THE PIPE SHALL BE PLACED IN A DRY TRENCH.
  - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIALS SUCH AS LARGER ROCK, MUCK AND DEBRIS.
  - SEE GENERAL NOTES FOR PIPE BACKFILL BENEATH PROPOSED PAVEMENT.

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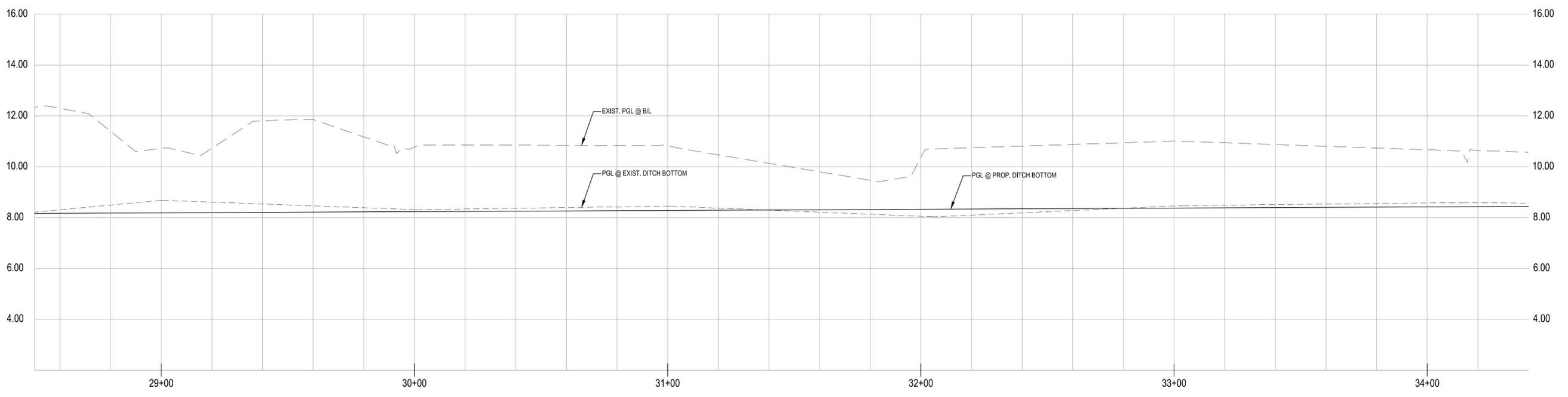
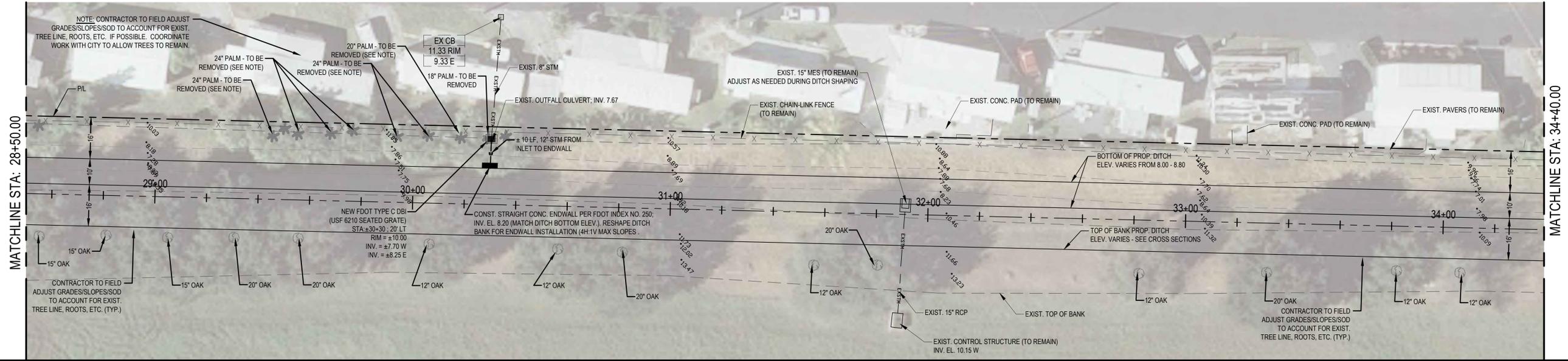
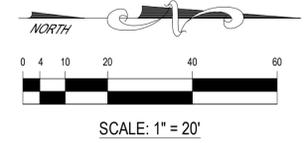
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APPROVED BY:  
  
T. Jeff Trompeter, P.E.  
Florida License No. 51045

**FITCH DITCH IMPROVEMENTS**  
PLAN & PROFILE

CDI PROJECT: 10290-01  
SHEET NO.  
**C2.1**  
DATE: 05/29/2013



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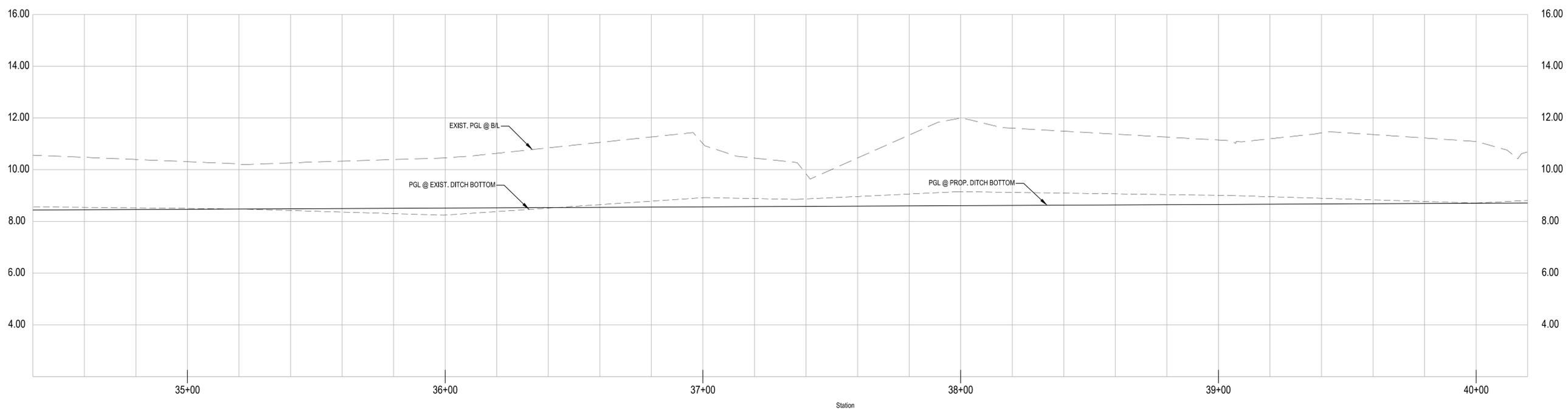
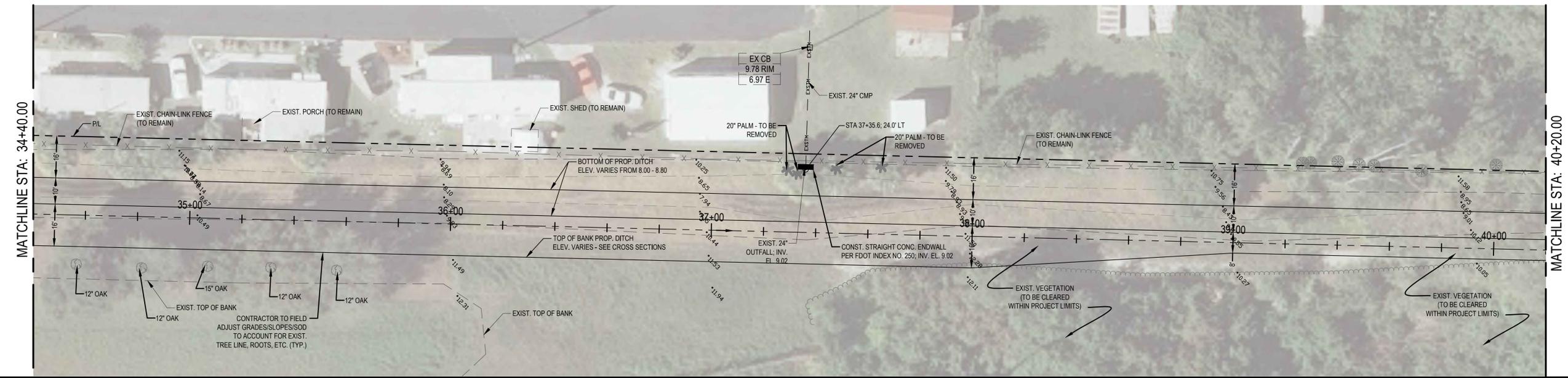
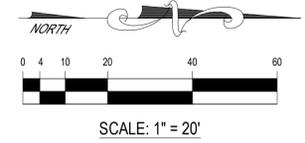
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**FITCH DITCH IMPROVEMENTS**  
PLAN & PROFILE

CDI PROJECT: 10290-01  
SHEET NO.  
**C2.2**  
DATE: 05/29/2013



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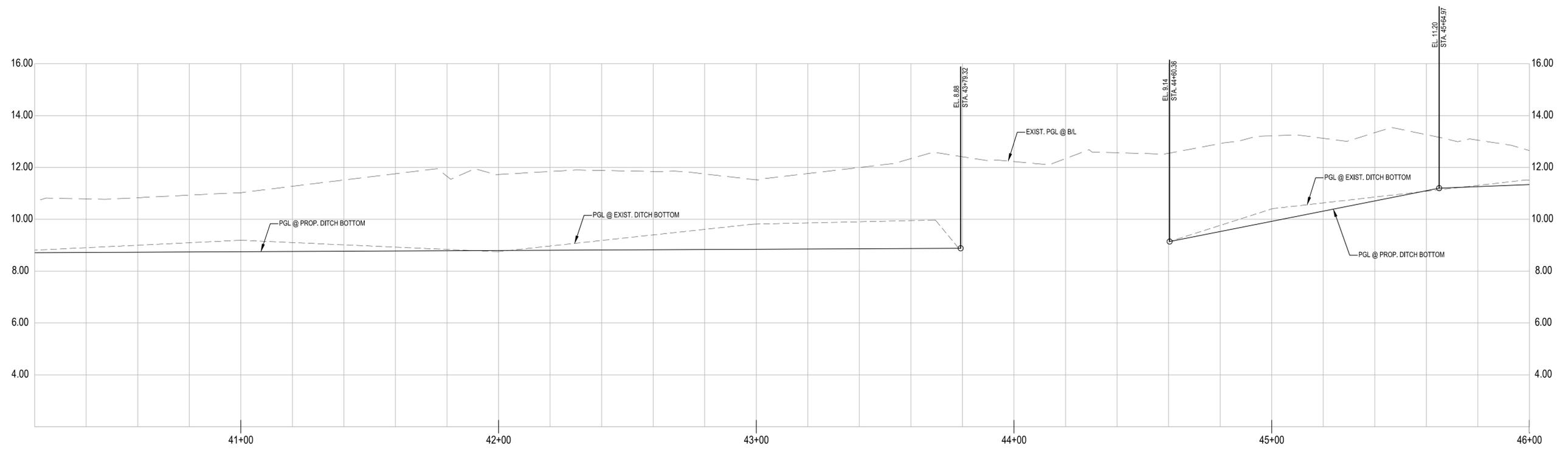
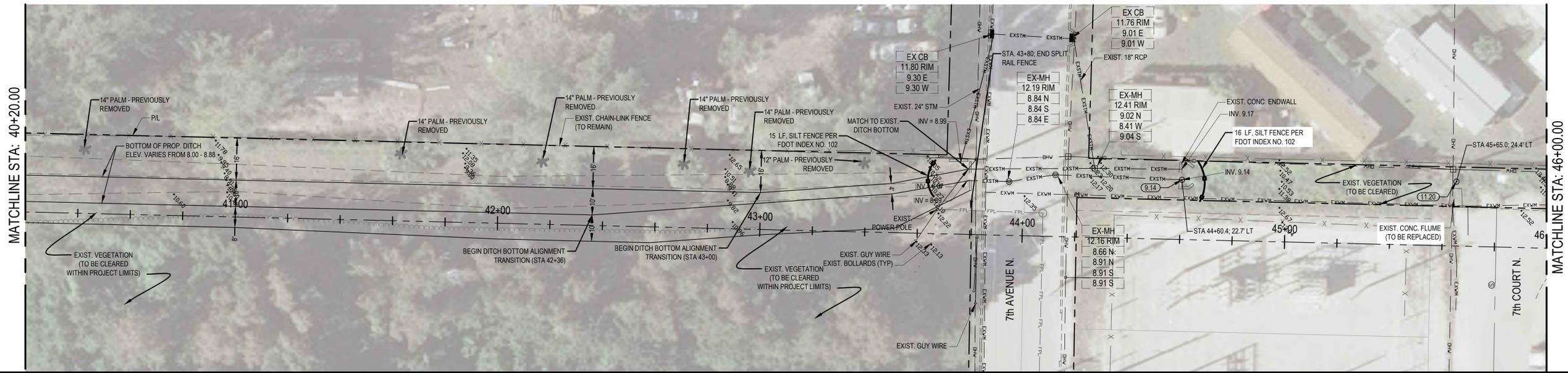
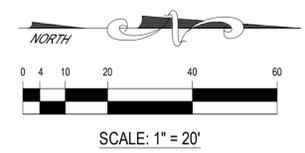
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**FITCH DITCH IMPROVEMENTS**  
PLAN & PROFILE

CDI PROJECT: 10290-01  
SHEET NO.  
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DATE: 05/29/2013



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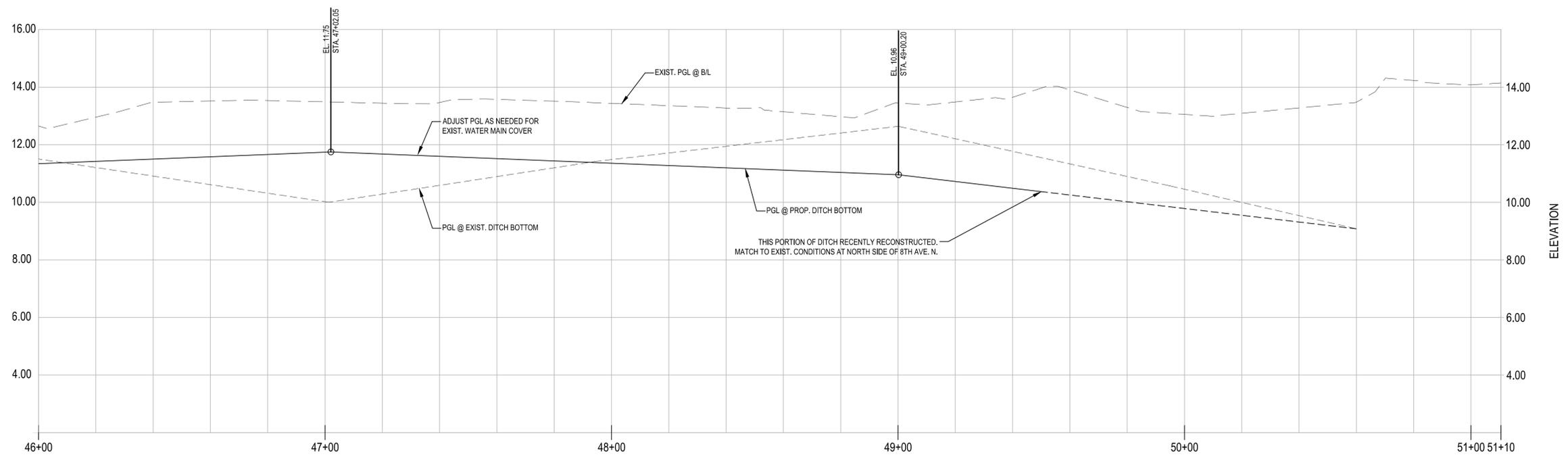
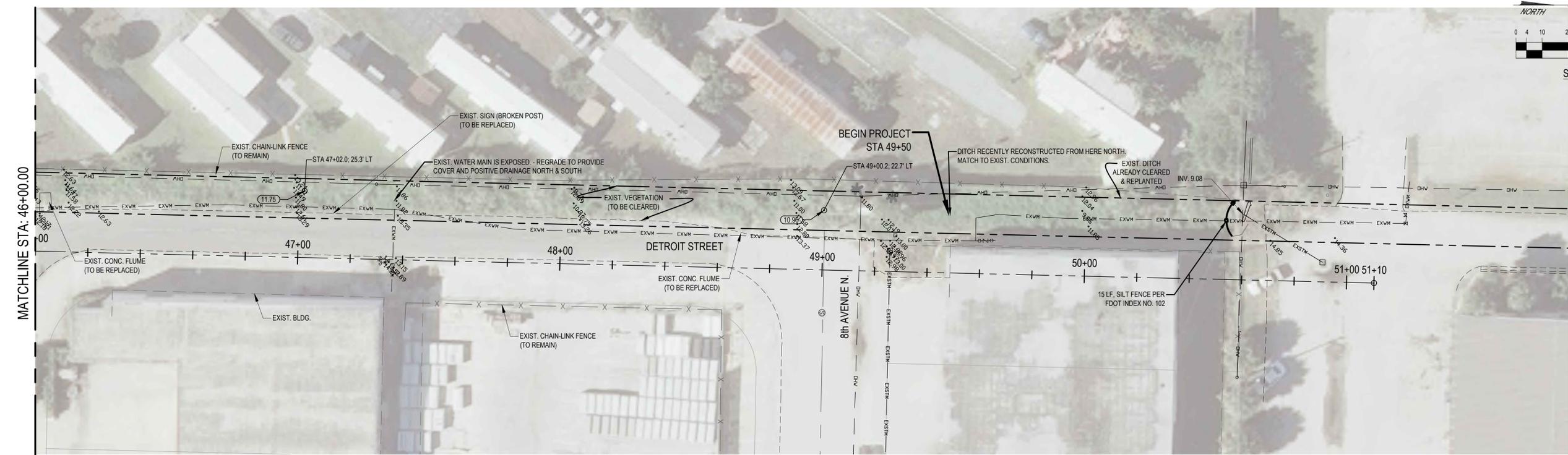
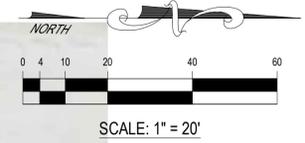
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**FITCH DITCH IMPROVEMENTS**  
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CDI PROJECT: 10290-01  
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DATE: 05/29/2013



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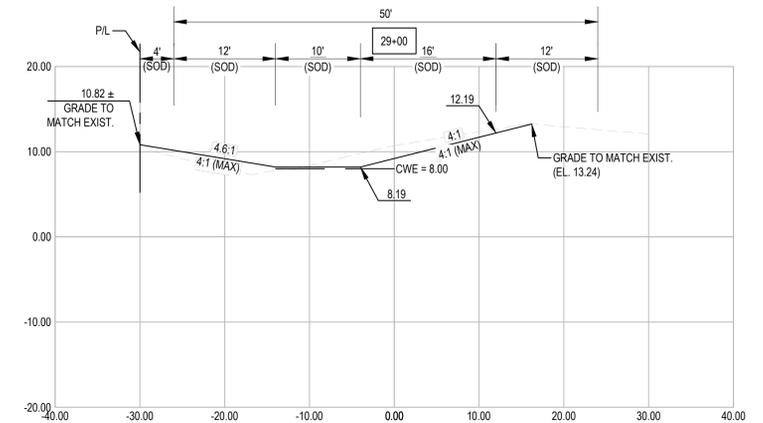
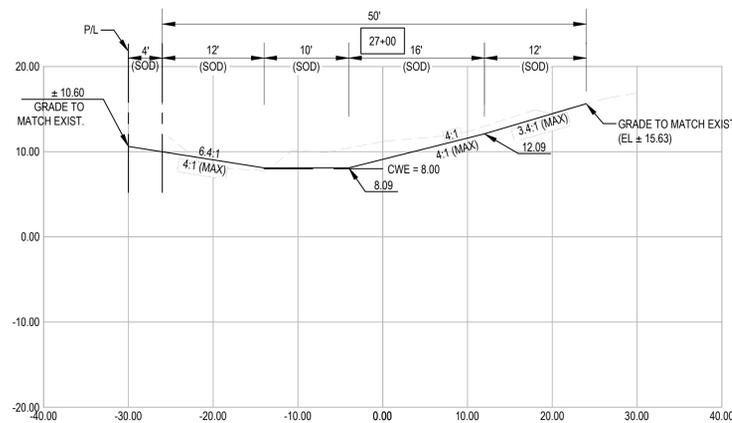
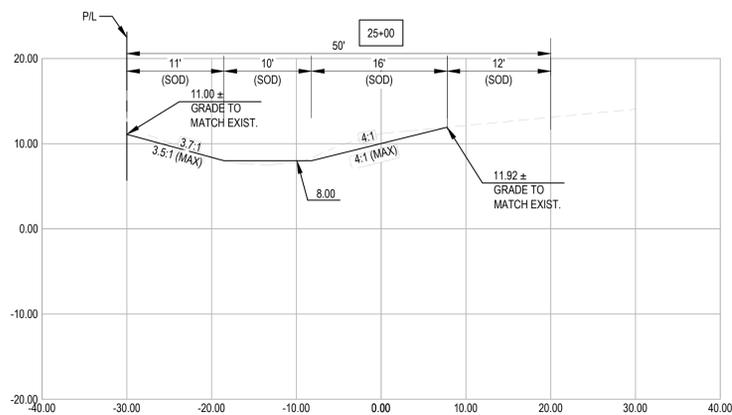
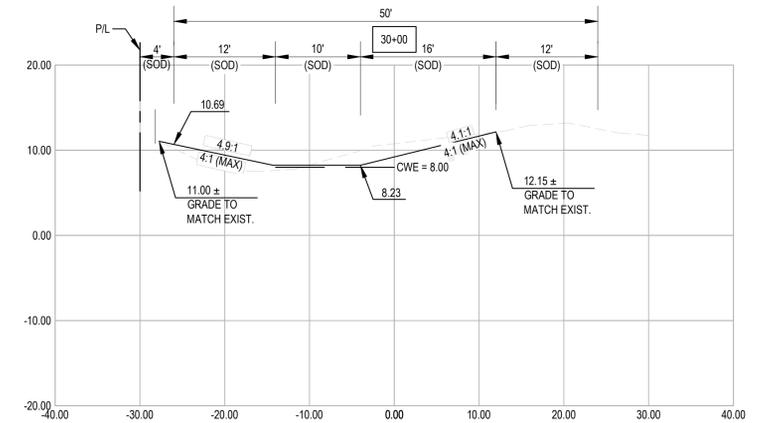
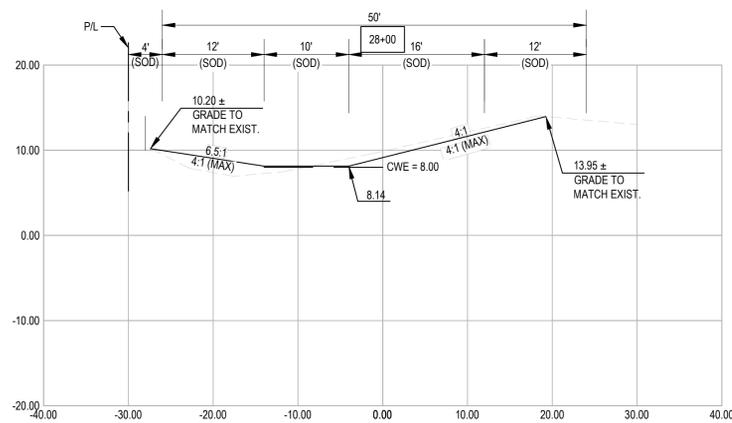
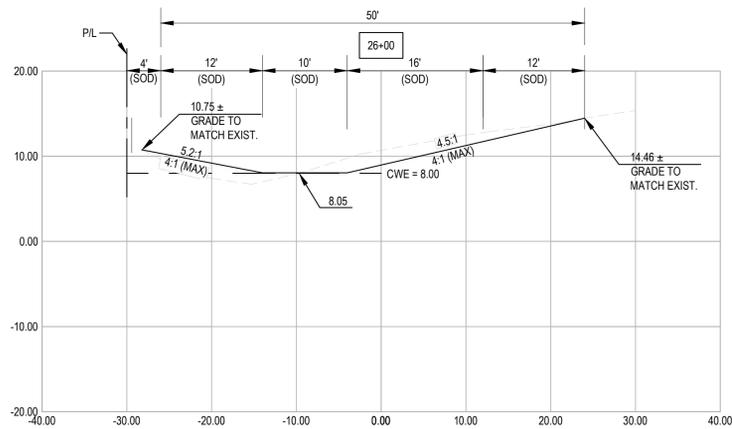
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**FITCH DITCH IMPROVEMENTS**  
PLAN & PROFILE

CDI PROJECT: 10290-01  
SHEET NO.  
**C2.5**  
DATE: 05/29/2013



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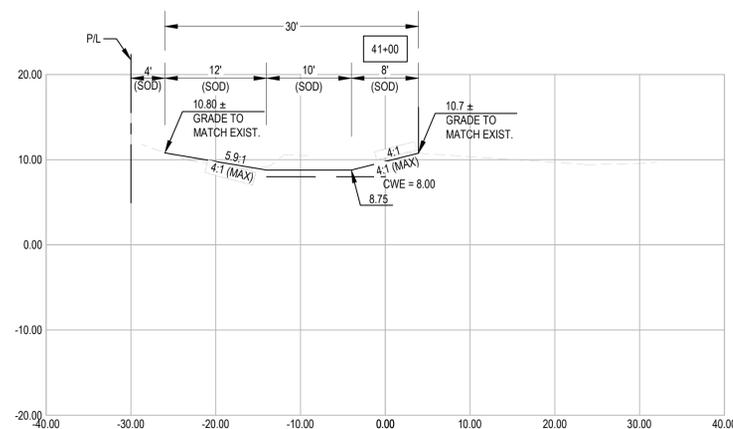
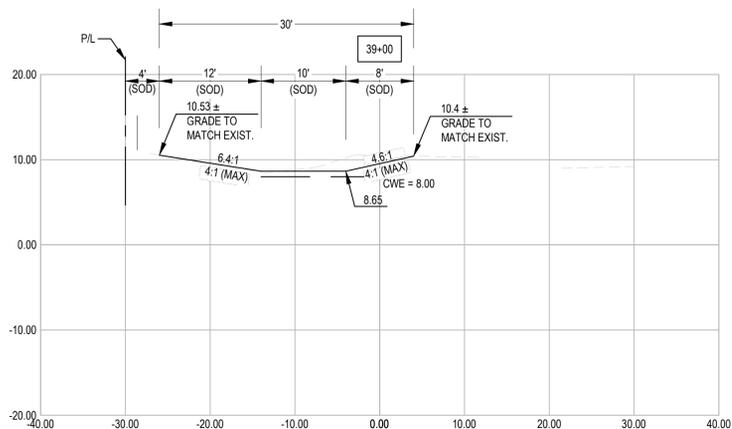
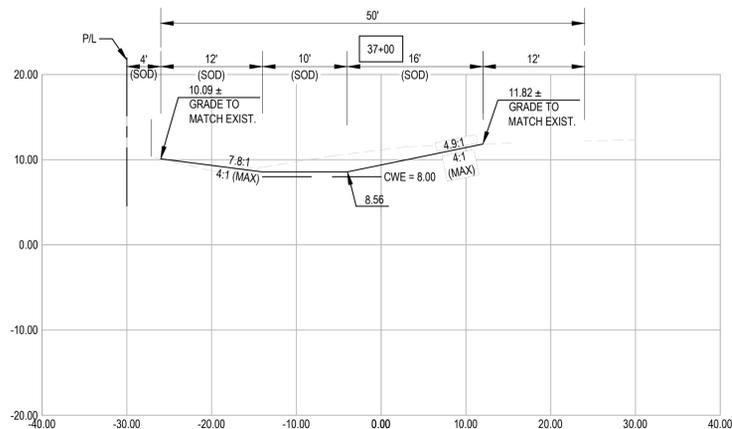
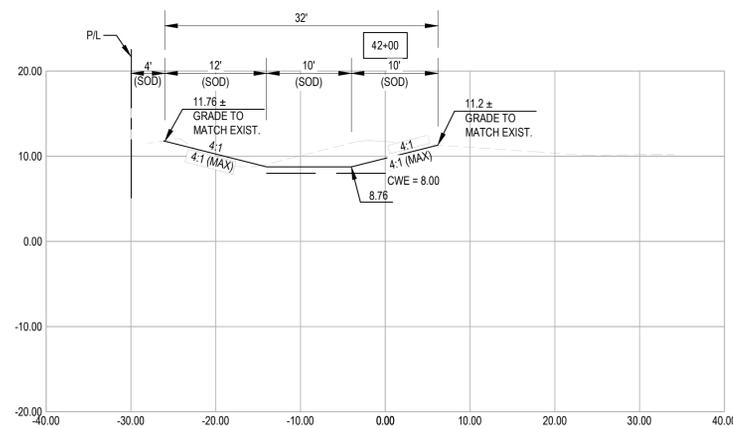
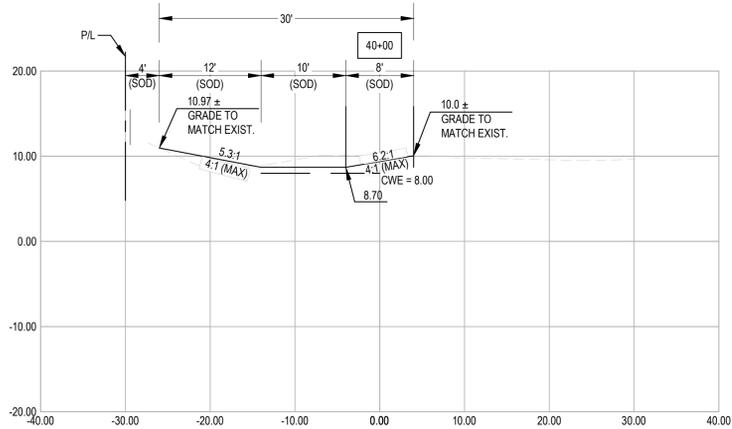
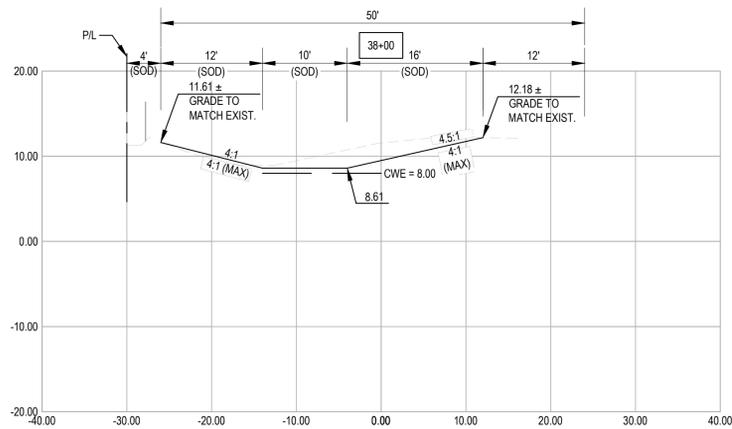
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## FITCH DITCH IMPROVEMENTS CROSS SECTIONS

CDI PROJECT: 10290-01  
 SHEET NO.  
**C3.1**  
 DATE: 06/29/2013





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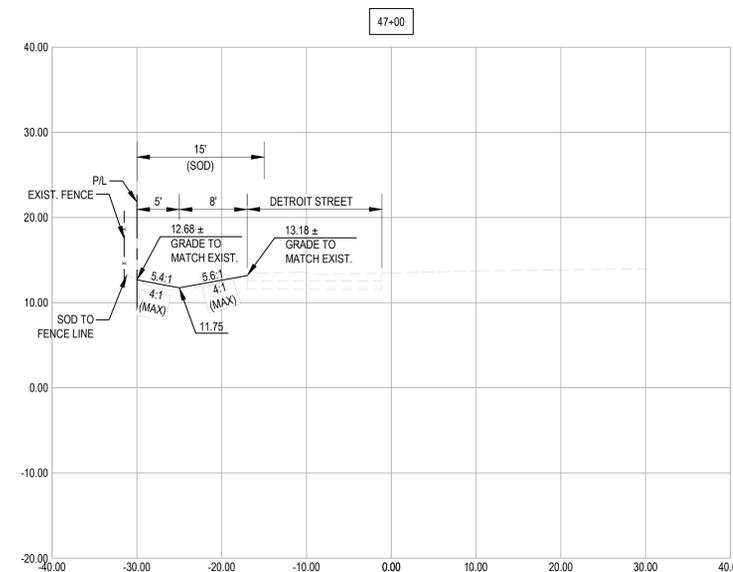
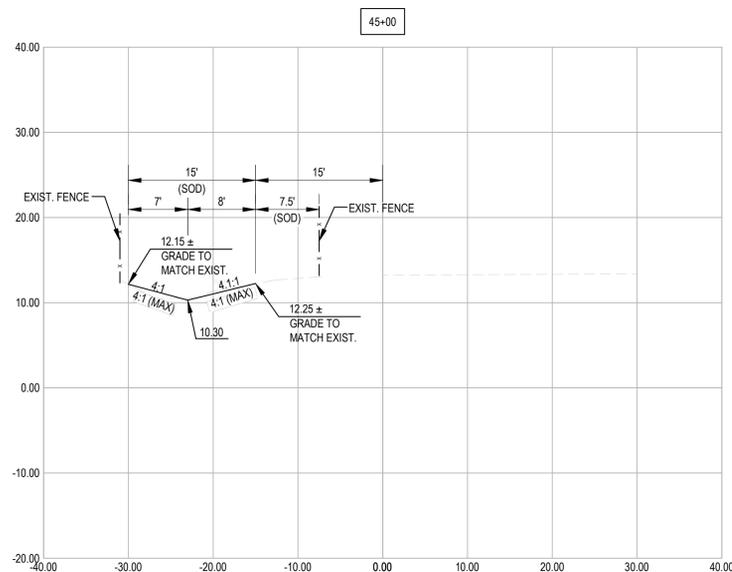
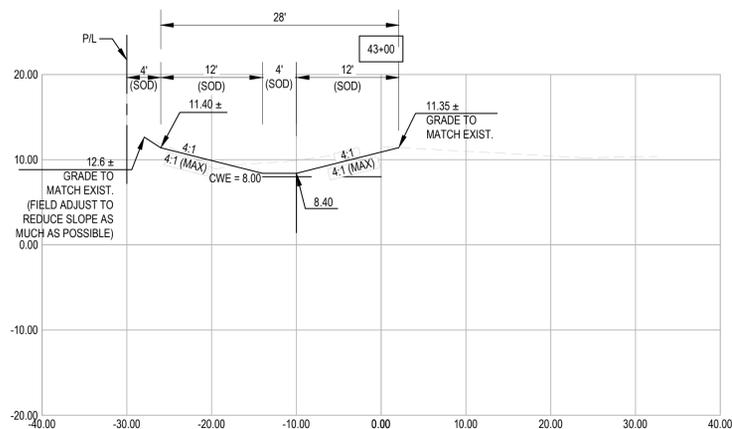
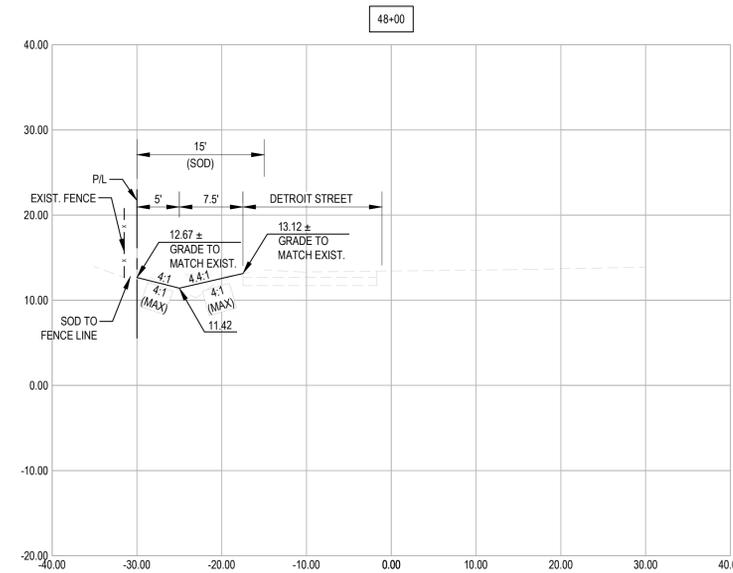
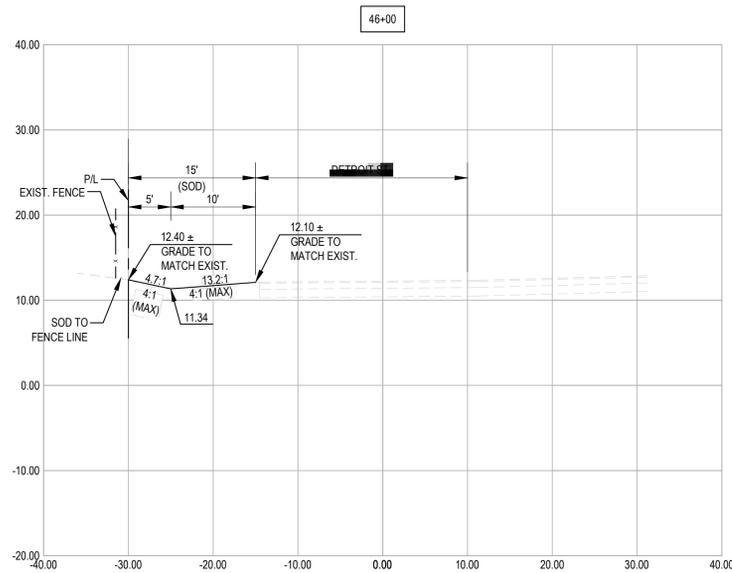
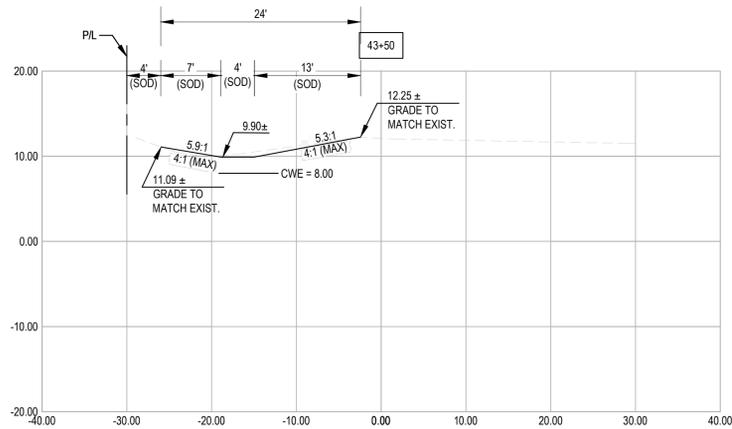
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## FITCH DITCH IMPROVEMENTS CROSS SECTIONS

CDI PROJECT: 10290-01  
 SHEET NO.

**C3.3**

DATE: 05/29/2013



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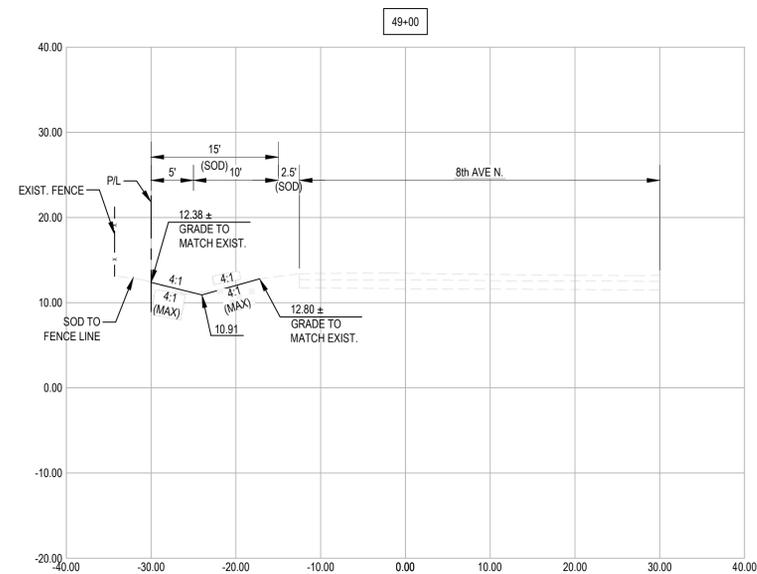
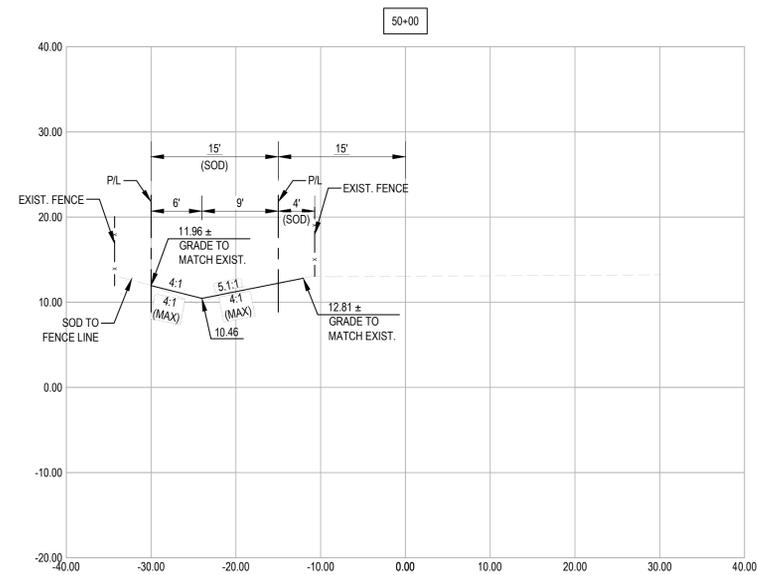
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## FITCH DITCH IMPROVEMENTS CROSS SECTIONS

CDI PROJECT: 10290-01  
 SHEET NO.  
**C3.4**  
 DATE: 06/29/2013



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## FITCH DITCH IMPROVEMENTS

### CROSS SECTIONS

CDI PROJECT: 10290-01  
 SHEET NO.  
**C3.5**  
 DATE: 06/29/2013