

# FRANKLIN COUNTY, OHIO

## OFFICE OF THE COUNTY ENGINEER

# GOLFVIEW

## DRAINAGE IMPROVEMENT PETITION

## BROWN TOWNSHIP

### PROJECT DESCRIPTION

This project will improve drainage in the Golfview Ditch Watershed by installing 841' storm sewer, 502' drainage swale, and 506' perforated drain tile.

### SPECIFICATIONS

The 2019 Standard Specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement unless noted otherwise.

Signatures below signify only concurrence with the general purpose and general location of the project. All technical details remain the responsibility of the engineer preparing the plans.

I approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth in the plans and estimates.

### FRANKLIN COUNTY

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY ENGINEER

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY CHIEF DEPUTY ENGINEER

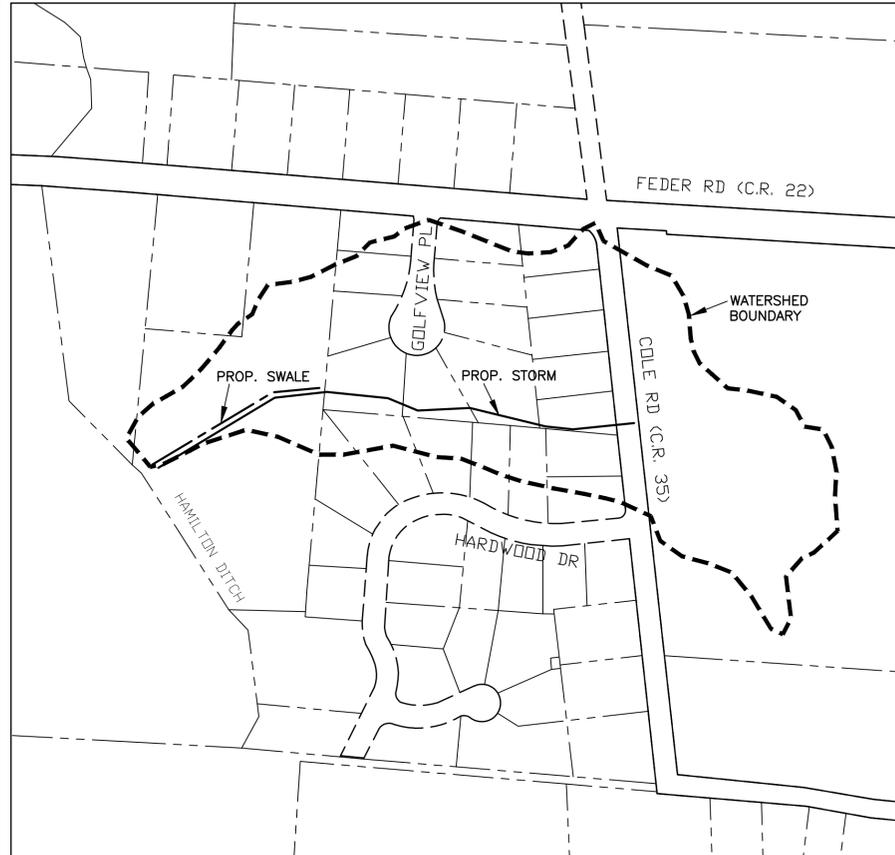
APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY DRAINAGE ENGINEER

We, the Commissioners of Franklin County in formal session, hereby approve these plans.

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY COMMISSIONER

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY COMMISSIONER

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ FRANKLIN COUNTY COMMISSIONER



### INDEX OF SHEETS

TITLE SHEET . . . . .	1
SCHEMATIC PLAN . . . . .	2
TYPICAL SECTIONS . . . . .	3
GENERAL NOTES . . . . .	4
GENERAL NOTES / ESTIMATE OF QUANTITIES . . . . .	5
MAINTENANCE OF TRAFFIC NOTES . . . . .	6
PLAN AND PROFILE . . . . .	7-9
CROSS SECTIONS . . . . .	10-12

### WATERSHED AND LOCATION MAP

NO SCALE  
LATITUDE: N37°47'45" LONGITUDE: W89°19'00"

DISTURBED AREA = 0.84 AC.  
(NO NPDES PERMIT IS REQUIRED)

PORTION TO BE IMPROVED	_____
COUNTY ROAD	=====
TOWNSHIP ROAD	-----
PROPERTY LINE	-----



STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
ODOT			
CB-2-2B	7-16-21	800 5-2-22	FRANKLIN COUNTY SECTION 100 GEN. PROVISIONS DATED 4-17-23
MH-3	7-16-21	832 10-19-18	
HW-2.1	7-20-18		
MT-97.10	4-19-19		PERMITS
MT-97.11	1-20-17		

**MOODY ENGINEERING**  
300 SPRUCE STREET  
SUITE 200  
COLUMBUS, OHIO 43215  
P: 614 280 8999  
MOODY-ENG.COM

*Mark Larrimer*  
REGISTERED ENGINEER No. E69331  
4/25/2023

R E V I S I O N S			
REV.	DESCRIPTION	INITIAL	DATE

PROJECT NO. 9011

ENGINEER'S ESTIMATE NO. 2023-09

RAILROAD INVOLVEMENT NONE

GOLFVIEW DRAINAGE IMPROVEMENT

1  
12

DRAWING: P:\20089\FEED\_GES\Task\_3-Golfview\CADD\BASE\20089\_Golfview\_01-TITLE.dwg  
DATE: 04/25/2023 10:58am



0 100 200  
HORIZONTAL SCALE IN FEET

CALCULATED MAB  
CHECKED MSL

**SCHEMATIC PLAN**

**GOLFVIEW DRAINAGE IMPROVEMENT**



**BENCH MARKS**

ALL BENCH MARKS AND ELEVATIONS SHOWN UPON THIS PLAN ARE BASED ON THE (NAVD88) NORTH AMERICAN VERTICAL DATUM OF 1988.

SOURCE BENCHMARK MONUMENT No. P40 - ELEV.= 919.899  
BRASS DISK IN THE NORTHWEST WINGWALL OF FEDER ROAD BRIDGE PRA 22-2.00 OVER CLOVER-GROFF DITCH, 635 FEET WEST OF ALTON & DARBY CREEK ROAD, 33 FEET NORTH OF THE CENTERLINE.

SOURCE BENCHMARK MONUMENT No. P41 - ELEV.= 915.380  
BRASS DISK IN THE SOUTHWEST WINGWALL OF FEDER ROAD BRIDGE BRO 22-1.37 OVER HAMILTON RUN, 0.28 MILES WEST OF COLE ROAD, 270 FEET EAST OF THE CENTER OF THE DRIVE TO RESIDENCE #6951, 25 FEET SOUTH OF THE CENTERLINE.

BENCHMARK TBM1 - ELEV.= 925.03  
PONY SPIKE IN THE NORTH SIDE OF 4th POWER POLE SOUTH OF FEDER RD\COLE RD. INTERSECTION, BETWEEN RESIDENCES 1077 & 1089 COLE RD., LOCATED 20.5' WEST OF CENTERLINE COLE RD.

BENCHMARK TBM2 - ELEV.= 918.14  
CHISELED SQUARE ON THE SOUTHWEST CORNER OF A CATCH BASIN ON THE SIDE YARD OF RESIDENCE 1111 GOLFVIEW CT., LOCATED 23.2' SOUTHEAST OF THE SOUTHEAST CORNER OF CONCRETE DRIVEWAY.

HORIZONTAL CONTROL

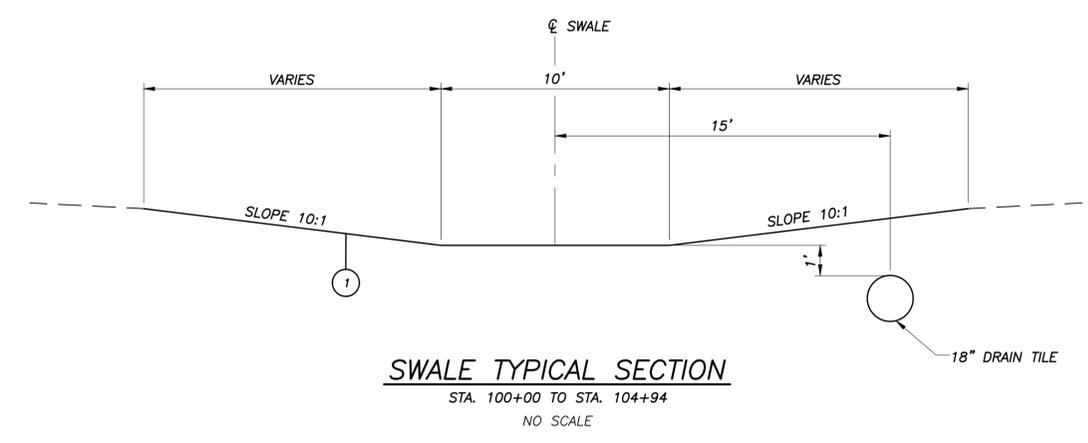
HORIZONTAL CONTROLS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2007 ADJUSTMENT)

FCGS 1774: ALUMINUM DISK IN PVC ENCASED CONCRETE MONUMENT, AT A P.T. IN THE CENTERLINE OF RIGHT-OF-WAY ON FEDER ROAD (STA 73+12.53 1980 PLANS), 0.28 MILES WEST OF COLE ROAD, ACCESS THROUGH A F.C. ROAD MONUMENT BOX. MONUMENT REPLACED A FOUND 1" SOLID IRON PIN 4 INCHES DEEP SET BY FCE.

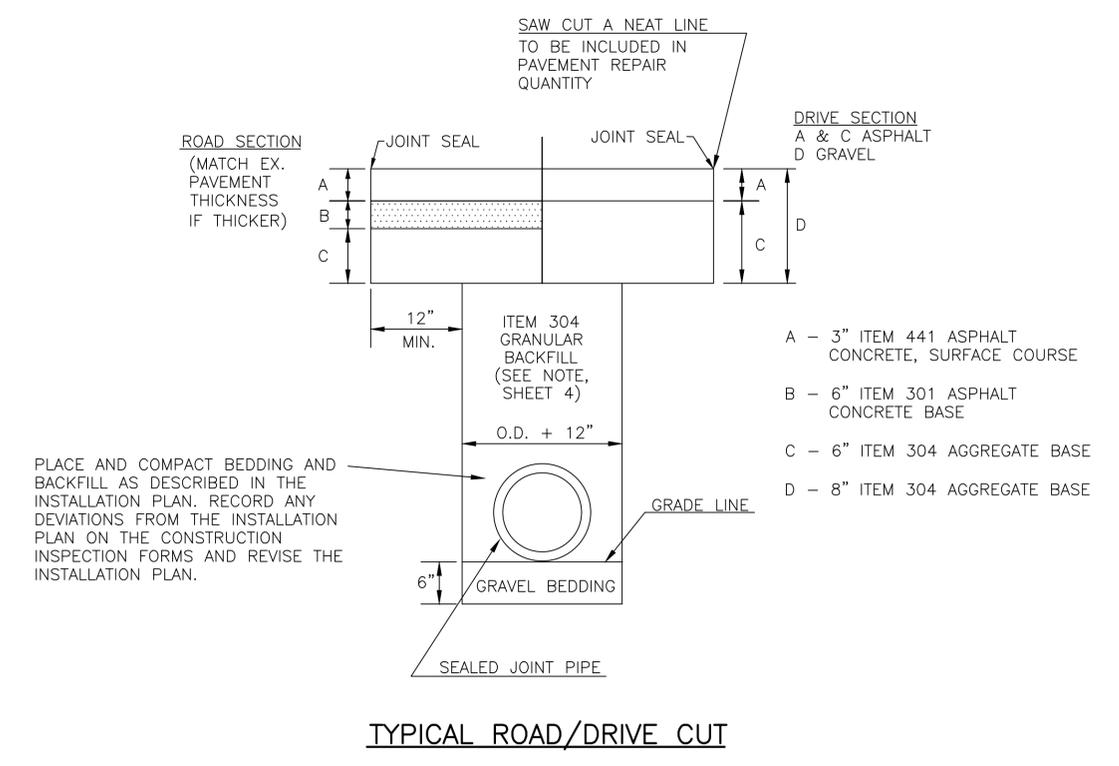
FCGS 1775: ALUMINUM DISK IN PVC ENCASED CONCRETE MONUMENT, AT THE CENTERLINE OF RIGHT-OF-WAY INTERSECTION OF COLE ROAD SOUTH AND FEDER ROAD (STA 87+09.86 1980 PLANS), AN ANGLE POINT ON FEDER ROAD, ACCESS THROUGH A F.C. ROAD MONUMENT BOX. MONUMENT REPLACED A FOUND 1" SOLID IRON PIN 7 INCHES DEEP.

BASIS OF BEARINGS: FCGS 1774 - FCGS 1775 = S85°26'11"E (FEDER ROAD AS-BUILT 0022-02)

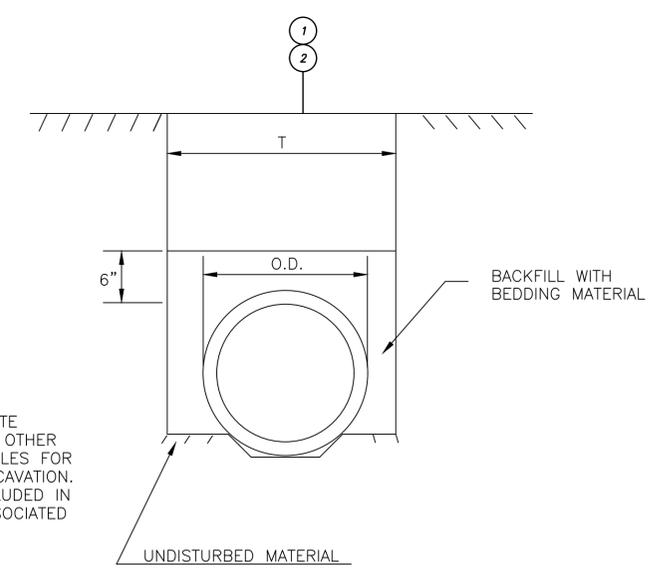
DRAWING: P:\20088\_FCGS\_GES\Task\_3-Golfview\CADD\BASE\20088\_Golfview\_02-SCHEMATIC\_Plan.dwg  
September 23, 2022, 3:38pm



- ① ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
- ② ITEM 653 - TOPSOIL FURNISHED & PLACED, AS PER PLAN (T= 6" AVG.)



NOTE:  
CONTRACTOR TO SEPARATE EXISTING TOPSOIL FROM OTHER SOILS INTO SEPARATE PILES FOR BACKFILLING DURING EXCAVATION. ALL WORK WILL BE INCLUDED IN THE PRICE BID FOR ASSOCIATED DRAIN INSTALLATION



**SPECIFICATIONS**

The 2019 Construction and Material Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the proposal, shall govern this improvement, except where noted otherwise.

**WORK LIMITS**

The work limits shown on these plans are for physical construction only. Provide the installation and operation of all work zone traffic control and work zone traffic control devices required by these plans whether inside or outside these work limits.

**HOURS OF OPERATION**

Contractor's work hours shall be limited to 8:00 A.M. to 7:00 P.M. Monday through Saturday, unless permission is granted by the Engineer in writing. The Contractor shall be required to adhere to all local noise ordinances.

**PRECONSTRUCTION MEETING AND EEO-PREVALING WAGE SESSION**

The Contractor shall meet for a preconstruction meeting scheduled by the County as per Franklin County General Provision 108.02. An EEO-prevaling wage session will be held in conjunction with the general preconstruction meeting discussion of contract documents, affected third party concerns, schedule, proposed subcontractors-suppliers submittals, and possible pre-award safety meeting etc. Prevaling wage coordinator Ronni Nimps 614-525-5123.

**STORM SEWER, WATERLINE & SANITARY SEWER BACKFILL**

Trench backfill under all pavements (roadways, driveways, and sidewalks) and under influence lines of said pavements shall be Item 304 or Low Strength Mortar Backfill (LSMB). Recycled 304 may be used as per ODOT CMS 703.11 where permissible for trench backfill only; recycled material cannot be used as 304 Aggregate Base. LSMB shall follow the mix proportioning in ODOT CMS 613.03 Type III. All pipe to be subject to 611 performance inspection.

Backfill shall be placed as follows:

The minimum trench width shall be 3' to allow room for mechanical compaction equipment: hoe tamps, jumping jacks, etc.

Provide compaction equipment that compacts the material under the haunch of the pipe. Use shovel slicing and spud bars in conjunction with the compaction operations to compact the material and to manipulate the material under the haunch of the pipe.

Item 304 shall be used as the granular material and shall extend up to the bottom of the roadway subgrade. Except as noted below.

Where the new storm sewer, waterline, or sanitary sewer crosses under an existing utility line, No. 57 Stone or LSMB shall be used vertically from the bottom of the new trench to 6" above the top of the existing utility and horizontally 5' on each side of the existing utility (10' total).

The granular backfill shall be placed and compacted in lifts not to exceed 8" for 304 and 24" for No. 57 Stone.

Watering devices shall be onsite and used on 304 that has moisture content below optimum, as directed by the backfill inspector.

For trenches deeper than 10' use LSMB in the bottom of the trench to a point such that the compacted granular backfill the rest of the way up is no deeper than 10'.

All costs for ITEM 304, NO. 57 STONE, and LSMB backfill shall be included in the unit bid prices of the associated pipe.

**DRAIN TILE**

All cost for necessary bends and fittings shall be included in the unit bid prices of the associated pipe.

**EXPOSE NOTE**

Where plans provide for a proposed conduit, storm sewer, waterline, or other construction to cross over or under an existing sewer or underground utility, the Contractor shall locate the existing pipes or utilities both as to line and grade before starting to lay the proposed conduit, storm sewer, waterline, or other construction. If it is determined that the existing conduit or existing appurtenance to be connected differs from the plan elevation or results in a change in the planned work, the Engineer shall be notified before starting construction of any portion of the proposed work which will be affected by the variance in the existing elevations. Payment for all the operations described above shall be included in the contract price for the pertinent items.

**OVERNIGHT TRENCH CLOSING**

Should work require that trenches remain open during non-work hours, the Contractor shall use stone wedges and PCB per SCD MT-101.90 and MT 101.70 accordingly. When the pavement is removed and the Contractor is unable to complete the required replacement in time for it to be opened to traffic as indicated in the specifications, the excavation shall be filled with a bituminous patch material with a durable surface or properly plated (as per City of Columbus standard drawing 1441, sheet 7). The Contractor will be required to maintain these patches while they are in service. The cost of placing, maintaining, removing and disposing of the temporary patches or plates will be at the Contractor's expense.

**CONSTRUCTION NOISE**

Activities and land use adjacent to this project may be affected by construction noise. In order to minimize any adverse construction noise impacts, do not operate power-operated construction-type devices between the hours of 7:00pm and 8:00am. In addition, do not operate at any time any device in such a manner that the noise created substantially exceed the noise customarily and necessary attendant to the reasonable and efficient performance of such equipment.

**SAFETY REQUIREMENTS AND RESPONSIBILITIES**

The Contractor is responsible for ensuring that all work under this contract meets or exceeds the Occupational Safety & Health Administration (OSHA) standards in addition to complying with the recognized best practice within the construction industry.

**1.0 Certification Requirements**

The manufacturer of safety systems (shoring, protective systems, fall protection) or a Professional Engineer (PE) must certify that the design of major or critical facilities, equipment, support structures, or systems, embankments, shoring systems, and formwork (false work) is structurally suitable for the intended use. This certification must be in writing and submitted to the FCEO Project Manager before construction or use of such facilities, equipment, or support systems.

**2.0 Required Safety Programs and MSDS Submittals**

The Contractor must submit a comprehensive written safety program covering all aspects of onsite and applicable offsite operations and activities associated with the contract. In addition, the Contractor shall submit Material Safety Data Sheets (MSDS) prior to bringing chemicals on site. The Contractor Written Safety Program will be used to evaluate compliance and ensure that the Contractor has a program in place to deal with all safety and health related requirements. The Contractor is fully responsible for its content and implementation. Onsite work must not begin until the FCEO Project Manager has received the program or appropriate supplementary submittals. The submission of the program in no ways relieves the Contractor of the responsibility for providing employees with a safe and healthful work environment or compliance with OSHA standards.

**3.0 Required Safety Meetings**

**3.1 Pre-Construction Safety Program Review**

The Contractor shall submit the Written Safety Program for review at a Pre-Construction Meeting prior to starting any site activities. The Contractor must be prepared to discuss in detail the procedures to control the hazards likely to happen during major phases of the work, and the organizational assignments involved in administering the safety program.

**3.2 Progress Meeting Safety**

The FCEO Project Manager, the Contractor's principal onsite representative, and designated members of respective staffs responsible for safety will review site safety concerns at the Progress Meetings. The safety segment of the meeting will review the Contractor's safety effort, resolve health and safety problems relating to current operations, and provide a forum for planning safe future activities.

**4.0 Safety and Health Responsibility**

The Contractor must designate, in writing, a Safety Coordinator to administer the safety program on site and who has supervisory authority over the general Contractor, subcontractors, and suppliers. This person shall have responsibility of site safety and worker health, and shall have the authority to correct deficiencies and stop work, if necessary, until deficiencies are corrected.

**5.0 Accident and Incident Investigating and Reporting**

The Contractor's Safety Coordinator shall report all injury accidents and incidents to the FCEO Project Manager as they occur. If a death or injury involving a serious medical condition occurs, the incident shall be reported to the FCEO Project Manager and next of kin within 30 minutes by the Contractor's Safety Coordinator. Results of accident investigations and corrective actions shall be provided to FCEO Project Manager as soon as practical following the investigation.

**6.0 Safety Orientation.**

The Contractor must give employees training containing pertinent provisions of the site safety and health program. Additionally, all sub-contractor and their employees are required to have training before working on the site. The Contractor is responsible for the content of the training and shall make available the training for FCEO review.

**7.0 Refusal to Comply With Occupational Safety and Health Requirements**

The Contractor must remove employees who refuse or repeatedly fail to comply with safe work practices and standards, or supervisors who fail to enforce compliance, from the associated work assignments.

**ITEM 653, TOPSOIL FURNISHED & PLACED, AS PER PLAN**

Contractor to separate topsoil during excavation. Contractor to place topsoil as final lift during backfill procedure. Contractor to have rockhound / soil condition ran over before topsoil and/or seeding and mulching is placed. Payment for ITEM 653, TOPSOIL FURNISHED AND PLACED, AS PER PLAN, shall be the unit price bid per cubic yard 6" depth, and shall include any necessary excavation to place the topsoil and any incidentals necessary to complete the work. This material shall be pulverized topsoil meeting ODOT CMS 653.02 and manufactured at a processing plant. Onsite processing operations will not be allowed. Topsoil Furnished and Placed shall be measured by the number of cubic yards furnished after compaction.

**ITEM 659 SEEDING AND MULCHING, AS PER PLAN and ITEM 659 WATER, AS PER PLAN (LAWN AREAS)**

The Contractor shall maintain all seeded areas until the Engineer accepts a vigorous grass grown area. This includes protection of the area from wind and fire. The areas shall be watered every other day (rain or shine) for three weeks after seeding. Work for eroded areas due to no fault of the Contractor shall be performed as stated in the ODOT-CMS SECTION 659. No payment shall be made for ITEM 659, SEEDING AND MULCHING, AS PER PLAN unless all the watering applications specified herein are made and until the grass exhibits a vigorous growth. Only when all of the above criteria are met, will payment be made for ITEM 659, SEEDING AND MULCHING, AS PER PLAN. All watering costs to be paid under the ITEM 659, WATER, AS PER PLAN.

Seed certification of grass seed shall be provided by seed vendor for each grass-seed mixture stating the botanical and common name, percentage by weight of each species and variety; and percentage of purity, germination, and weed seed. Include the year of production and date of packaging. Furnish National Turfgrass Evaluation Program (NTEP) data for each species to be used. A NTEP score of 6.0 or higher should be used for all turf tall fescue, a NTEP score of 5.8 or higher should be used for all Kentucky Blue Grass and a NTEP score of 6.0 or higher should be used for Perennial Rye Grass.

Grass seed must be fresh, clean, dry, new-crop seed complying with the A.O.S.A. "Journal of Seed Technology" rules for testing seeds for purity and germination tolerances.

Seed species shall be as follows, with not less than 90 percent germination, not less than 90 percent pure seed, and not more than 0.5 percent weed seed. for Kentucky Blue Grass a germination of, not less than 85 percent. The seed used should be a proprietary cultivar of a turf seed producer.

An example of a proprietary cultivar turfgrass seed mix proportioned by weight:

- A. ~50% Victa Kentucky Bluegrass
- B. ~25% Loretta Perennial Ryegrass
- C. ~25% Pennfine Perennial

All proprietary cultivar turfgrass seed mixes shall be approved by the Engineer before seeding and mulching takes place.

Contractor to run a rockhound / soil on any native soil prior to seeding.

SEEDING. Sow seed at a total rate of 7-9 lb. / 1,000 s.f. with a spreader or seeding machine. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

HYDRO-MULCHING. The use of hydro-mulch (seeding, fertilizer, mulch, and water together) applications may be used only if straw is applied on top of the hydro-mulch at the rate as per ODOT-CMS 659 at no additional cost to the County. The contractor is totally responsible to ensure vigorous growth of the hydro-mulch at his/her own expense.

TURF MAINTENANCE. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, and replanting to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide the same materials and installation as those used in the original installation.

Mow turfgrass seed mix areas as soon as top growth is tall enough to cut. REPEAT Mowing to maintain specified height without cutting more than 1/3 of grass height. Mow areas to a height of 2 to 3 inches.

**ITEM 659 SEEDING AND MULCHING, AS PER PLAN and ITEM 659 WATER, AS PER PLAN (AGRICULTURAL FIELD)**

The Contractor shall maintain all seeded areas until the Engineer accepts a vigorous vegetated area. This includes protection of the area from wind and fire. The areas shall be watered every other day (rain or shine) for three weeks after seeding. Work for eroded areas due to no fault of the Contractor shall be performed as stated in the ODOT-CMS SECTION 659. No payment shall be made for ITEM 659, SEEDING AND MULCHING, AS PER PLAN unless all the watering applications specified herein are made and until the grass exhibits a vigorous growth. Only when all of the above criteria are met, will payment be made for ITEM 659, SEEDING AND MULCHING, AS PER PLAN. All watering costs to be paid under the ITEM 659, WATER, AS PER PLAN.

Seeding in agricultural areas shall match the adjacent crop plantings. In the event that construction seeding does not correlate with the crop planting season, the cover crop shall be agreed upon by the property owner and engineer prior top planting.

Contractor to run a rockhound / soil on any native soil prior to seeding.

SEEDING. Sow seed at a rate per manufacturer recommendations

HYDRO-MULCHING. The use of hydro-mulch (seeding, fertilizer, mulch, and water together) applications may be used only if straw is applied on top of the hydro-mulch at the rate as per ODOT-CMS 659 at no additional cost to the County. The contractor is totally responsible to ensure vigorous growth of the hydro-mulch at his/her own expense.

MAINTENANCE. Maintain and establish vegetation by watering, fertilizing, weeding, mowing, trimming, and replanting to establish healthy, vegetation. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth surface. Provide the same materials and installation as those used in the original installation.

**PIPE BORED**

Pipe boring shall include excavation of the required bore pits, boring of conduit including the conduit itself and all required appurtenances, and restoration of the bore pits to the pre construction condition.

GENERAL NOTES

GOLFVIEW DRAINAGE IMPROVEMENT

**DRAINAGE CONNECTIONS**

All conduits paid for under this item shall be considered and bid as an "As Per Plan" item. See note below.

All drains, which are encountered during construction, shall be provided with unobstructed outlets. Existing drains which are located below the roadway ditch elevation, and which cross the roadway, shall be replaced within construction limits using Item 611 Conduit, Type B, one commercial size larger than the existing conduit.

Existing collectors and isolated farm drains, which are encountered above the elevation of roadway ditches, shall be outletted into the roadway ditch by Item 611 Type C Conduit. The optimum outlet elevation shall be 12" above the flow line elevation of the ditch.

All lateral connections outside the road ROW should be performed under NRCS 606 using ODOT 707.33 pipe material (N-12).

The location, type, size and grade of replacements shall be determined by the Engineer and payment shall be made on final measurements.

Tie-ins to existing conduits shall use a rubber boot connection and hardware as approved by the Engineer. All conduits shall be Schedule 40 Polyvinyl Chloride Plastic Pipe (PVC). Blind tap connections and cutting into curb or drainage structures shall be included in the linear foot price bid for each item.

Erosion control pads and animal guards shall be provided at the outlet end of all drains as per Standard Construction Drawing DM-1.1M, except when they outlet into a drainage structure. Payment for the erosion control pads and animal guards shall be included for payment in the pertinent conduit items.

The following estimated quantities have been included in the General Summary for the work noted above

ITEM 611	4" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT
ITEM 611	6" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT
ITEM 611	8" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT
ITEM 611	4" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT
ITEM 611	6" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT
ITEM 611	8" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN	50 LIN FT

Necessary bends, branches and ADS Inserta Tee OneFit Lateral Connection for rubber boot connectors shall be included in the price bid for each item. The Contractor shall not order any of the above materials unless approved by the Engineer.

Contractor to provide northing and easting for all tie-ins to the new main. Will also denote type and size of pipe. Price to be included in the price bid with the associated LF of item used.

**ITEM 201, Clearing and Grubbing**

All trees, fence posts, rocks, brush, stumps and fence within the construction limits of this project shall be removed unless marked "Do Not Disturb". Unless itemized separately, all of these items shall be removed under the lump sum price bid for item 201, Clearing and Grubbing. Items within the construction limits that are marked "Do Not Disturb" or "DND" shall not be removed or damaged. The County and Cities reserve the right to order the removal of trees or stumps outside of the limits of the right-of-way and/or easement lines but within the work limits. Payment for the removal of these trees or stumps shall be included in the lump sum price bid for item 201, Clearing and Grubbing.

**UTILITIES**

The identity and location of existing underground utilities located in and around the construction area have been shown and labeled on the plans by using information provided by the respective utility owners. The county and the consulting Engineer will not assume responsibility for the accuracy of location or depth of existing underground utilities as shown on the plan.

Support and protection of all utilities and appurtenances shall be the responsibility of the Contractor. Costs for the repair and restoration of existing utilities damaged by the Contractor shall be the responsibility of the Contractor. The Contractor is responsible for locating all service laterals and lines. Costs associated with the above work and responsibilities shall be included in the price bid for various items.

Prior to excavation, the Contractor shall give a 48-hour notice to OHIO811 formerly called Ohio Utilities Protection Service (OUPS) by calling (800) 362-2764, 811 or use 1-Dig on-line service. A 48-hour notice shall also be given to the owners of underground utilities shown on the plans who are not members of a registered underground protection service.

Listed below are utility companies that have facilities located within the work limits of this project and subscribe to OHIO811.

COLUMBIA GAS  
ROB CALDWELL  
rcaldwell@nisourse.com  
3350 JOHNNY APPLESEED CT.  
COLUMBUS, OH 43231  
OFFICE: 614-818-2104  
CUSTOMER SERVICE: 800-344-4077  
DAMAGE PREVENTION: 866-632-6243

AMERICAN ELECTRIC POWER  
PAUL PAXTON  
ptpaxton@aep.com  
850 TECH CENTER DRIVE  
GAHANNA, OH 43230  
740-348-5322  
SOLUTION CENTER: 800-277-2177

MARATHON PETROLEUM  
BLAKE A. ROSS  
blakeaross@marathonpetroleum.com  
HEATH AREA  
OPERATIONS ROW TECHNICIAN  
614-633-8678

AT&T  
KEVIN GLASER  
kg1963@att.com  
111 NORTH 4TH STREET  
COLUMBUS, OH 43215  
OFFICE: 614-208-9312  
REPAIR SERVICE: 888-611-4466  
PROMPT #1 THEN #5

CHARTER COMM (SPECTRUM/CHARTER)  
ANTHONY ADAMS  
anthony.adams@charter.com  
3760 INTERCHANGE ROAD  
COLUMBUS, OH 43204  
614-827-7971

STORM SEWER  
FRANKLIN COUNTY ENGINEER  
STEVE BUSKIRK  
sbuskirk@franklincountyengineer.org  
970 DUBLIN ROAD  
COLUMBUS, OH 43215  
614-525-3063

**MARATHON PIPE LINE REQUIREMENTS:**

A Marathon pipeline high pressure petroleum pipeline is within the vicinity of this project along Carter Road. Marathon requires their personnel be on site for any work within 50' of the pipeline. Contractor shall contact Blake Ross at (614) 633-8678 to coordinate excavation schedule and on site representation by Marathon for the duration of proposed work within the 50' limits.

**ITEM SPECIAL, HYDRO-EXCAVATING UTILITY EXPOSURE**

The Contractor shall expose utilities as directed by the Engineer utilizing Hydro-Excavating methods. The unit price bid for this pay item shall include all costs for labor, equipment, backfill of the exposure holes utilizing Flowable Controlled Density Fill as per Columbus 2012 CMS 613.04 Type I or Type III, and any incidentals necessary to complete the work.

This is a special pay item to be used as directed by the Engineer and not to be used for usual utility exposures associated with OHIO811 (OUPS) tickets and general construction of the project. Costs to expose utilities associated with OHIO811 (OUPS) tickets and general construction of the project shall be included in the unit bid prices for the items of work affected. The Contractor is reminded to keep his/her OHIO811 (OUPS) ticket updated according to industry practices.

**ESTIMATE OF QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
<b>ROADWAY</b>			
201	1	L.S.	CLEARING AND GRUBBING
201	1	EACH	TREE REMOVED, 18" SIZE
201	1	EACH	TREE REMOVED, 30" SIZE
202	506	FT.	PIPE REMOVED 8"
202	586	FT.	PIPE ABANDONED 12"
202	169	FT.	PIPE ABANDONED 8"
202	1	EACH	CATCH BASIN REMOVED
203	1179	C.Y.	EXCAVATION
203	100	C.Y.	EXCAVATION (USED AS DIRECTED BY ENGINEER)
203	11	C.Y.	EMBANKMENT
203	100	C.Y.	EMBANKMENT (USED AS DIRECTED BY ENGINEER)
203	50	C.Y.	EMBANKMENT #2 STONE (USED AS DIRECTED BY ENGINEER)
203	50	C.Y.	EMBANKMENT #57 STONE (USED AS DIRECTED BY ENGINEER)
653	62	C.Y.	TOPSOIL FURNISHED AND PLACED, AS PER PLAN
SPEC	2	EACH	HYDRO EXCAVATING UTILITY EXPOSURE (USED AS DIRECTED BY ENGINEER)
<b>EROSION CONTROL</b>			
601	3.11	C.Y.	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER
659	0.01	TON	COMMERCIAL FERTILIZER
659	2144	S.Y.	SEEDING AND MULCHING (FIELD), AS PER PLAN
659	364	S.Y.	SEEDING AND MULCHING (LAWNS), AS PER PLAN
659	14	M.GAL.	WATER, AS PER PLAN
832	6000	EACH	EROSION CONTROL (USED AS DIRECTED BY ENGINEER)
<b>DRAINAGE</b>			
602	0.33	C.Y.	CONCRETE MASONRY
611	23	FT.	12" CONDUIT, TYPE C, 707.33
611	506	FT.	18" CONDUIT, TYPE C PERFORATED (707.33, TYPE SP)
611	684	FT.	18" CONDUIT, TYPE C, 707.33
611	1	EACH	MANHOLE (MH-3)
611	7	EACH	CATCH BASIN (CB 2-2B)
SPEC.	165	FT.	18" CONDUIT BORED
611	50	FT.	4" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN
611	50	FT.	4" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN
611	50	FT.	6" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN
611	50	FT.	6" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN
611	50	FT.	8" CONDUIT, TYPE B, SCHEDULE 40 PVC, AS PER PLAN
611	50	FT.	8" CONDUIT, TYPE C, SCHEDULE 40 PVC, AS PER PLAN
<b>INCIDENTALS</b>			
614	1	L.S.	MAINTAINING TRAFFIC, AS PER PLAN
623	1	L.S.	CONSTRUCTION LAYOUT STAKES AND SURVEYING
624	1	L.S.	MOBILIZATION

CALCULATED  
CHECKED

**GENERAL NOTES  
ESTIMATE OF QUANTITIES**

**GOLFVIEW DRAINAGE  
IMPROVEMENT**

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September 23, 2022, 3:37pm

**ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN**

These plans provide a suggested method of maintaining traffic for this project. The Contractor may, in lieu of this method of operation or sequence of construction, submit their own, in writing, to the Engineer for review and approval. However, the Contractor shall provide at the preconstruction conference a set of reproducible prints (scale 1"=40' or 1"=20') showing how they plan to maintain traffic in accordance with the OMUTCD and these traffic maintenance notes. These plans will have to be reviewed and approved by the Franklin County Engineer's Office. The Contractor will be advised as to the review results in writing within thirty (30) days.

A minimum of two 10' lanes (one lane of traffic in each direction) shall be maintained on all roads during non-working hours and peak periods (7am-9am and 4pm-6pm). If this requirement cannot be met, traffic shall be detoured using ODOT Standard Construction Drawing MT-101.60 and OMUTCD Chapter 6H (Figure 6H-20).

Two-way one-lane traffic is permitted during working non-peak hours (9am-4pm) in accordance with ODOT Standard Construction Drawing MT-97.10 or MT-97.11.

The Contractor shall notify the County Engineer's Mobility Department at 614-525-6036 two weeks prior to beginning work, and weekly thereafter, to discuss any changes to the maintenance of traffic plan and/or completion date. Before work is started on this project the Contractor shall submit a written schedule of operation and a traffic maintenance control plan for approval. No work will be started that will restrict any lane usage unless it is the intent of the Contractor to work full time with a full force in order to complete the work without unnecessary delays.

The following devices must meet NCHRP 350 or MASH-08 before the devices are installed on the project: drums, cones, vertical panels and the panel support, portable sign supports, temporary impact attenuators, temporary concrete barrier, and barricades.

All construction signing shall be installed and covered before construction begins. After construction sign installation, the Contractor shall notify the Franklin County Engineer's Office Mobility Department at 614-525-6036 three working days before work begins and request an inspection of all signing.

Faces of construction signs and reflective sheeting on barricades shall be Type H (VIP). All orange construction signs shall be fluorescent orange. All sheeting will be tested for reflectivity per ODOT 730.192. Vertical panels and drum bands shall be reflectorized with Type G (high intensity) sheeting complying with the requirements of 730.19. All signs and barricades, vertical panels, and drums will be like new and in good condition in conformance with "Quality Guidelines for Temporary Traffic Control Devices and Features" published by ATSSA.

Maintenance of all Contractor-supplied signs, barricades, vertical panels and drums is the Contractor's responsibility. If the Contractor fails to correct deficiencies within four hours of notification, Franklin County shall correct or hire someone to correct the deficiencies. The Contractor shall then be back charged per ODOT Specification 614. In the case that back charging the Contractor is not applicable, the County will rescind and withhold all permits issued to the Contractor to work within County right-of-way until the issue is settled. These provisions shall not in any way relieve the Contractor of any of their legal responsibilities or liabilities for the safety of the public.

All barricades at closures shall have yellow Type A low intensity flashing warning lights and two flags. Reflective material is required on both sides of all barricades.

Cones are approved for daytime use only. Drums shall be used at night and have yellow Type C steady burn lights. Cones and Drums shall be placed as follows: 25' c/c on tangents, 15' c/c on tapers, and 8' c/c in radii, or as specified in MT-97.10 or MT-95.30.

All signs nine square feet (36" x 36") and over shall have yellow Type A low intensity flashing warning lights and two flags.

All work and traffic control devices shall be in accordance with ODOT CMS 614 and other applicable portions of the specifications, as well as the latest version of the OMUTCD. Payment for all labor, equipment and materials shall be included in the lump sum contract price for Item 614, Maintaining Traffic, as Per Plan, unless separately itemized in the plan.

**LOCAL ACCESS**

Ingress and egress shall be maintained to all residential and commercial properties. Driveway closures may be necessary to enable work on, or in front of, a drive. The Contractor will be responsible for notifying owners, residents, or business operators, in writing, at least 7 days, prior to closure per ORC 6131.47. The Engineer shall be given a list of the persons that were given notices with the date of notice included. Closure is permitted only during work hours and access must be returned at the end of each working day. Properties with multiple drives may have one drive closed at a time, while work is performed in the area of the closed drive.

Individual drive closures shall be kept to the minimum time needed for construction activities. Every effort must be made to accommodate the owner's need for access. No weekend closures.

**EXISTING TRAFFIC SIGN MAINTENANCE**

Special care shall be taken to maintain existing street name signs and stop signs. If necessary, the Contractor shall relocate these signs out of the way of construction, but in conformance with OMUTCD. Any damaged sign shall be replaced at the expense of the Contractor.

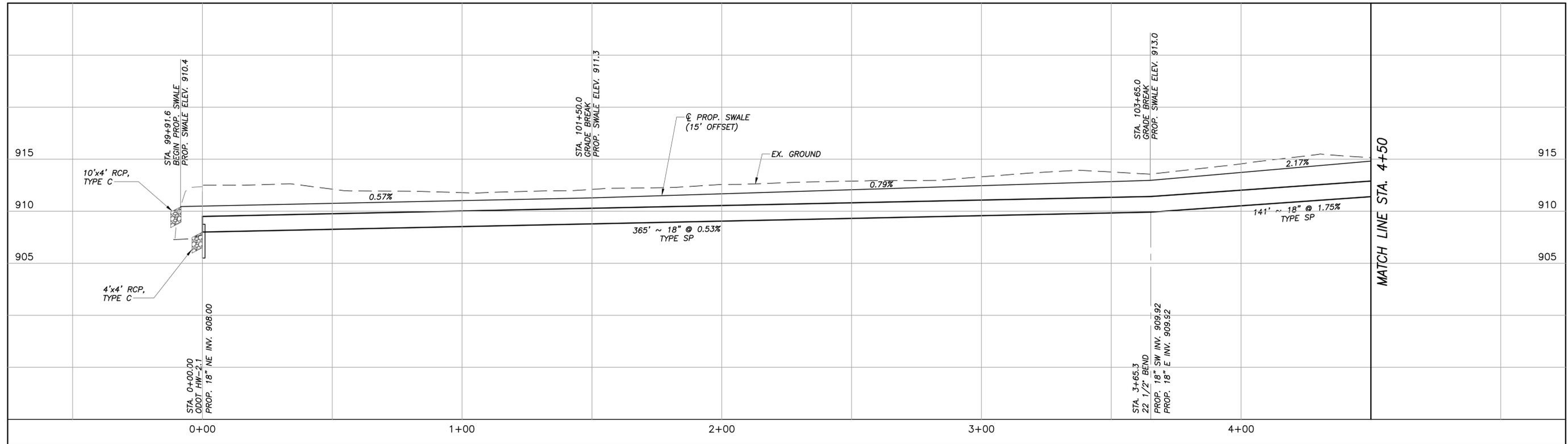
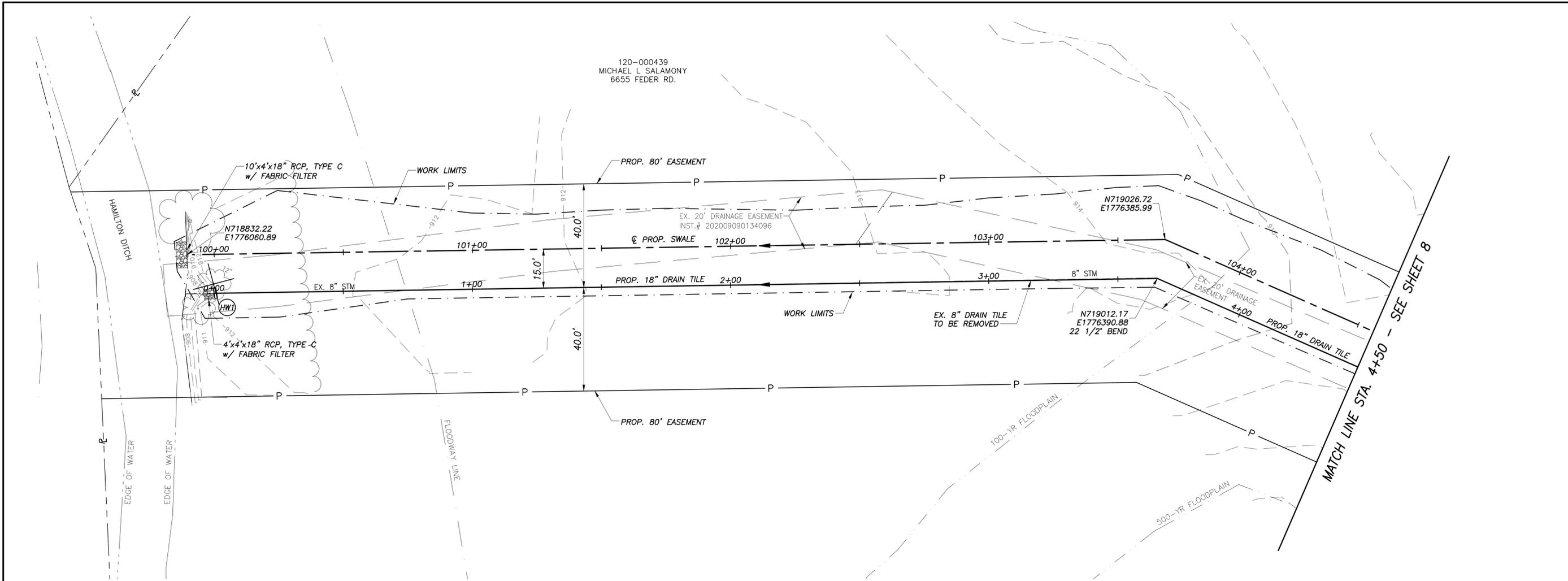
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CHECKED

**MAINTENANCE OF TRAFFIC NOTES**

**GOLFVIEW DRAINAGE IMPROVEMENT**

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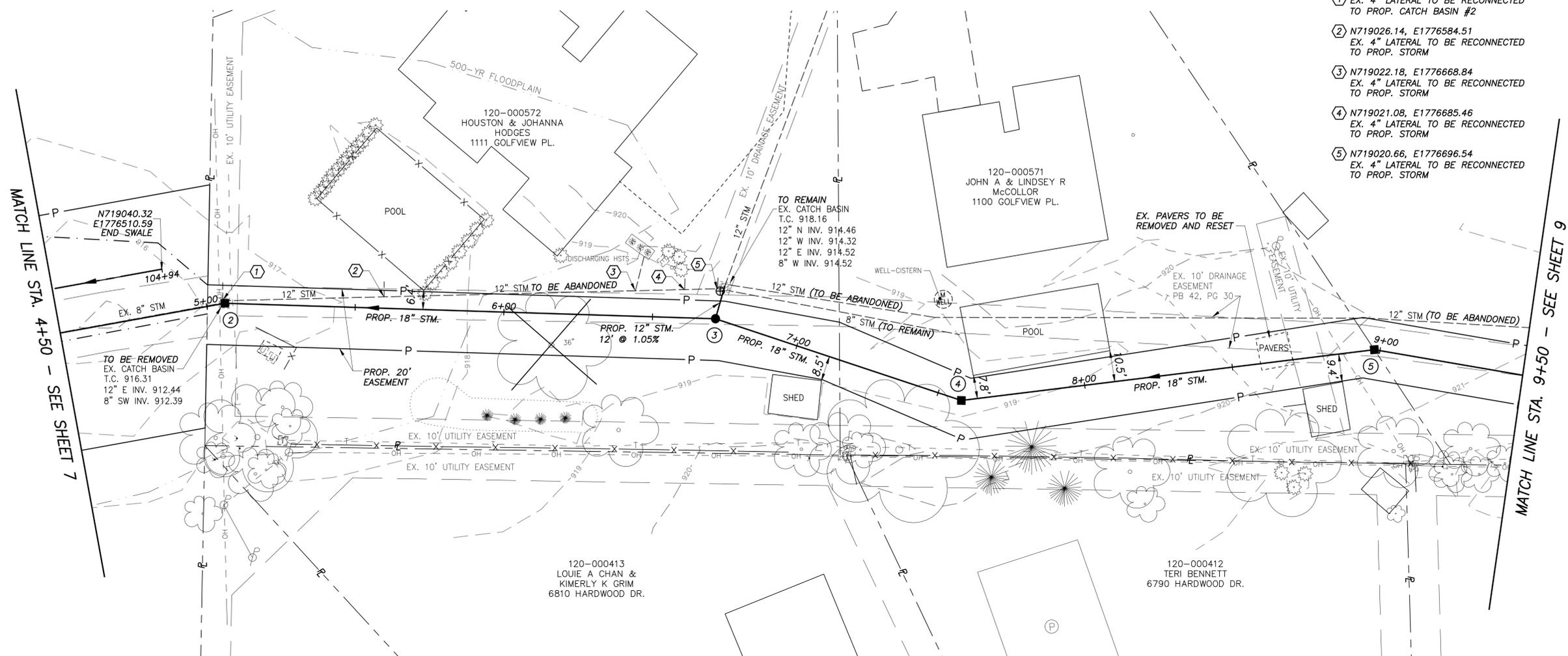


CALCULATED MAB  
 CHECKED MSJ

**PLAN AND PROFILE**  
**STA. 0+00 TO STA. 4+50**

**GOLFVIEW DRAINAGE**  
**IMPROVEMENT**

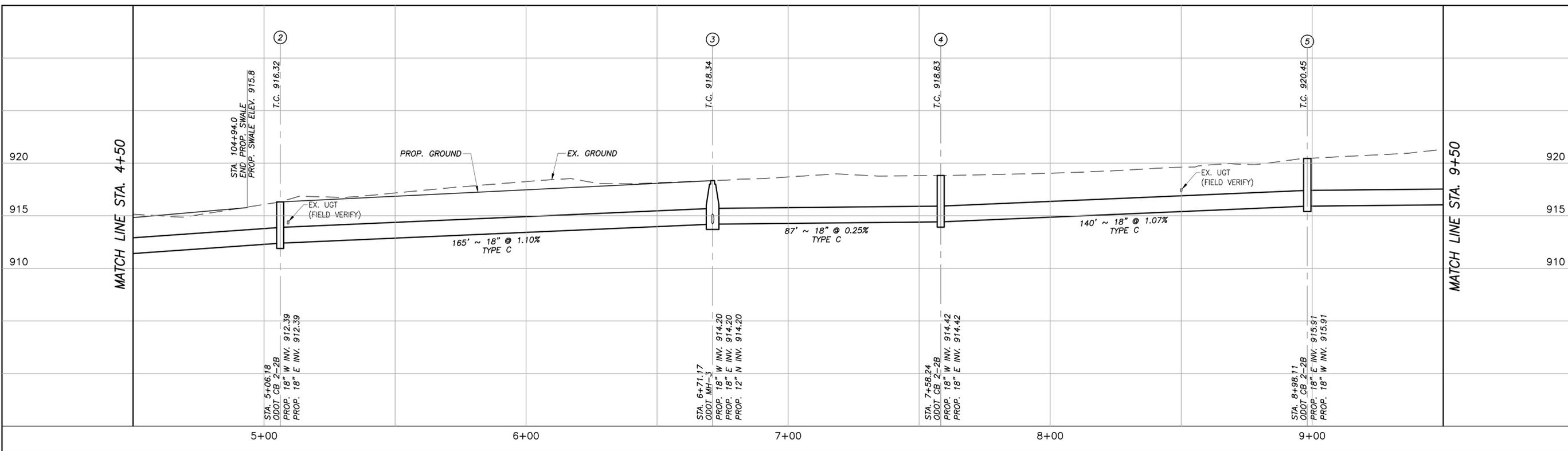
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- EXISTING LATERAL CONNECTIONS**
- ① EX. 4" LATERAL TO BE RECONNECTED TO PROP. CATCH BASIN #2
  - ② N719026.14, E1776584.51 EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ③ N719022.18, E1776668.84 EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ④ N719021.08, E1776685.46 EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ⑤ N719020.66, E1776696.54 EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM



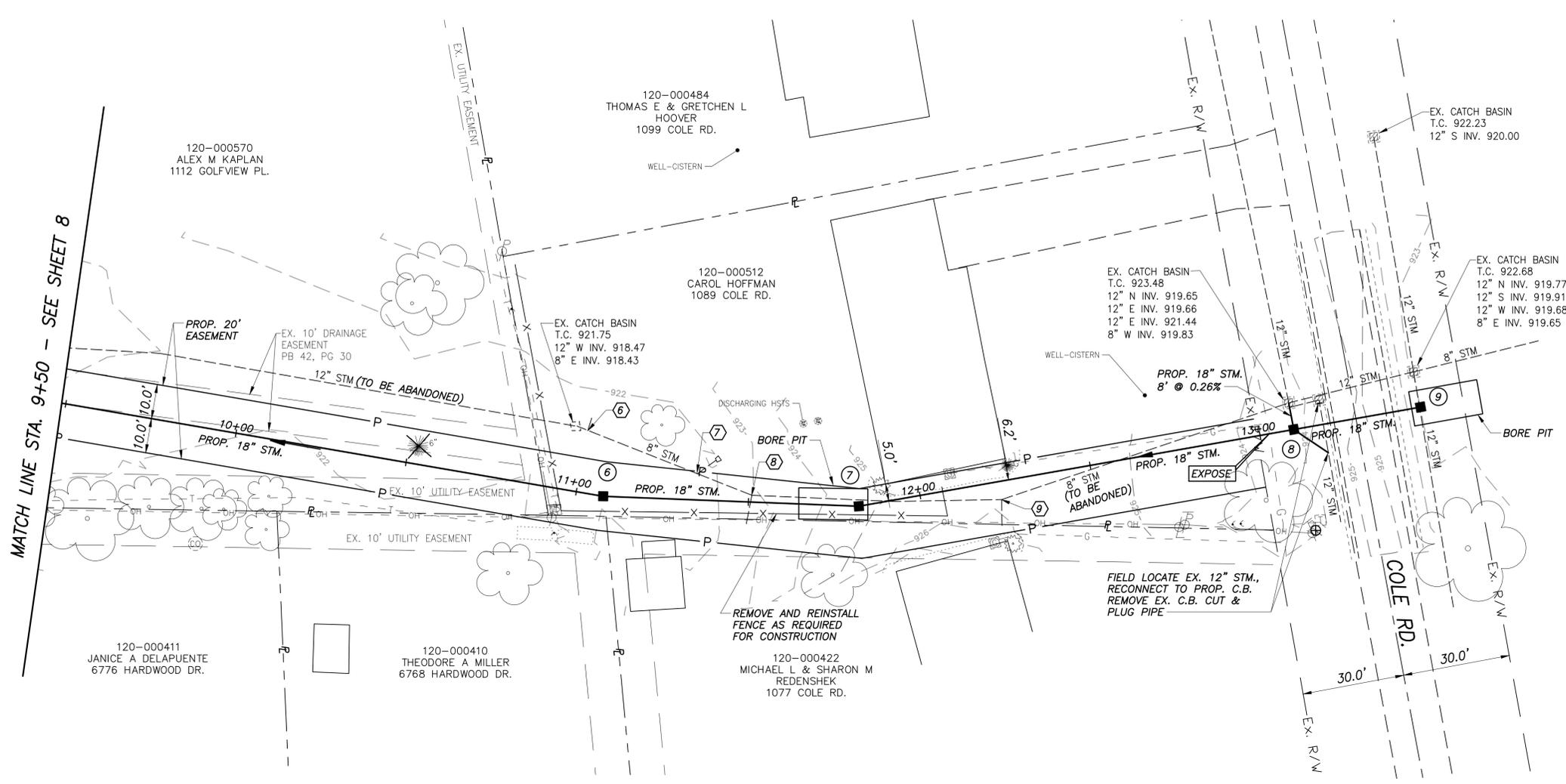
**PLAN AND PROFILE**  
**STA. 4+50 TO STA. 9+50**



**GOLFVIEW DRAINAGE**  
**IMPROVEMENT**

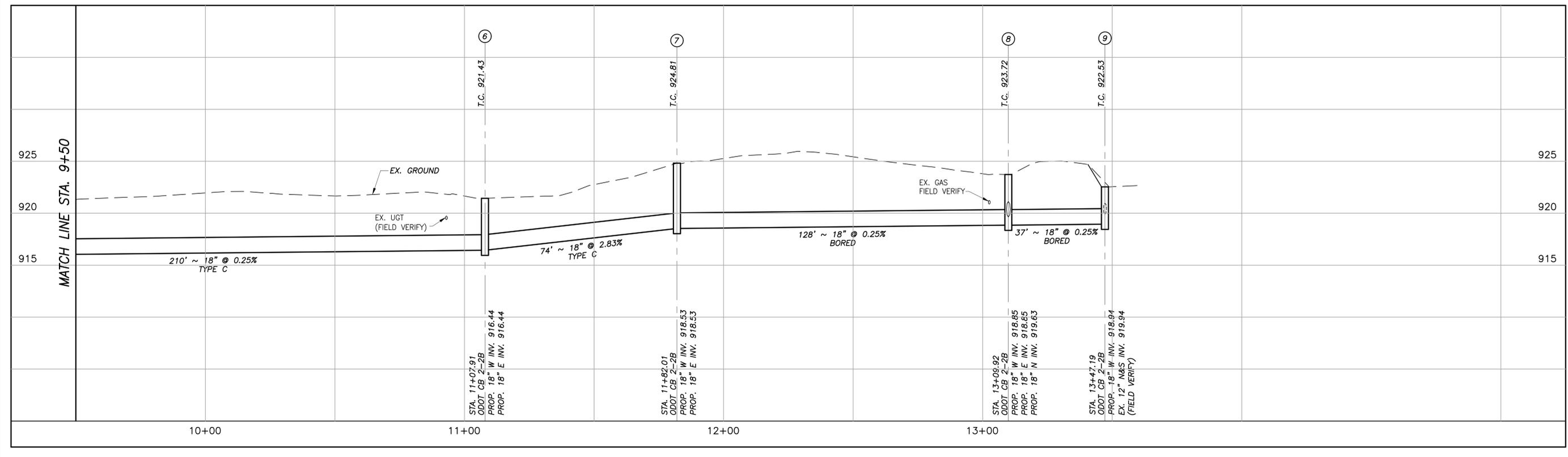


STORM SEWER MANHOLE COORDINATES BASED ON NAD83 OHIO SOUTH (NSRS 2007)				
Structure No.	PLAN Northing	PLAN Easting	AS-BUILT Northing	AS-BUILT Easting
2	719027.45	1776530.93		
3	719010.75	1776695.07		
4	718977.66	1776775.61		
5	718984.96	1776915.29		
6	718935.15	1777119.09		
7	718927.12	1777192.75		
8	718940.45	1777319.96		
9	718944.33	1777357.03		
HW1	718824.58	1776077.43		



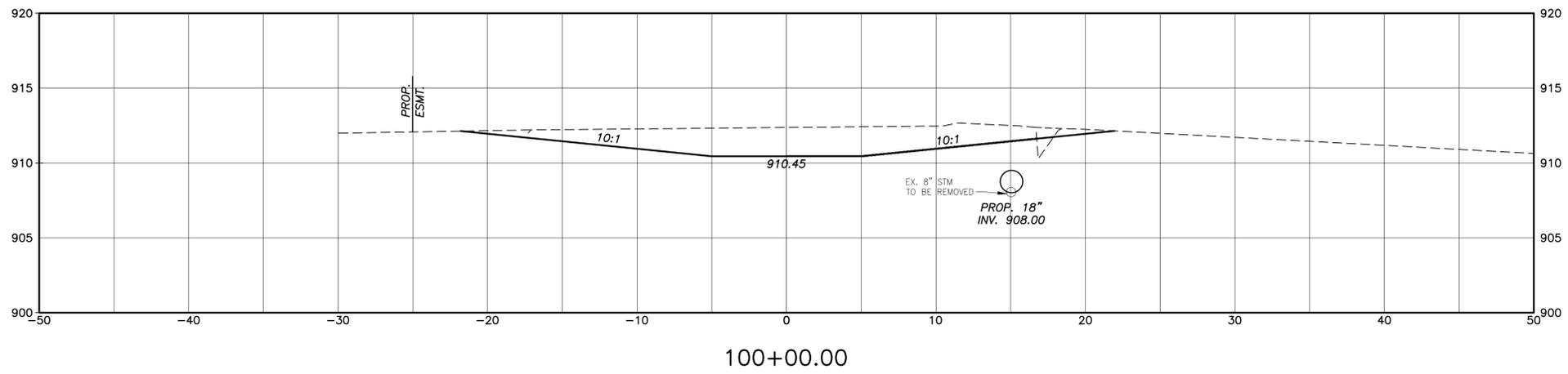
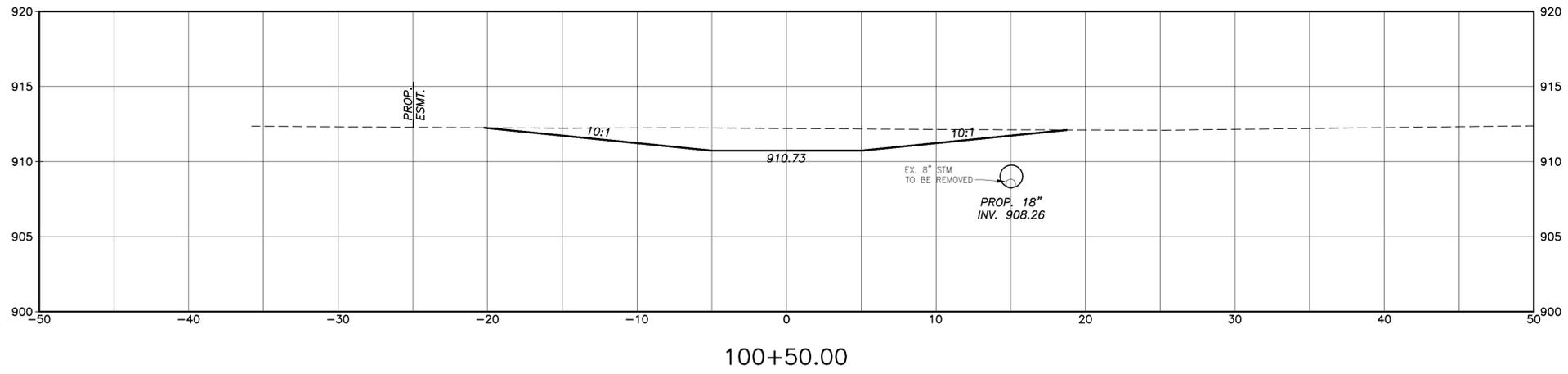
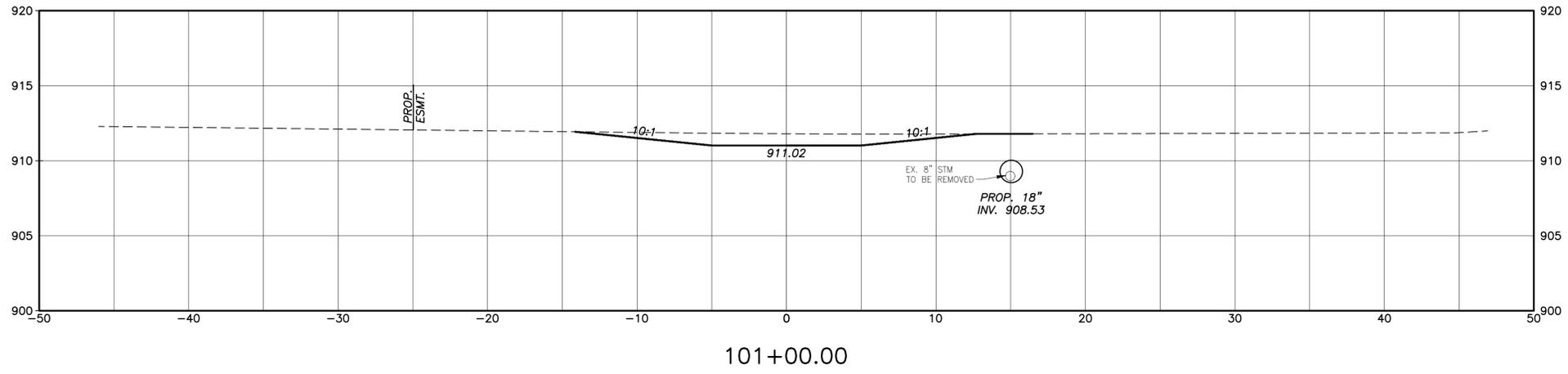
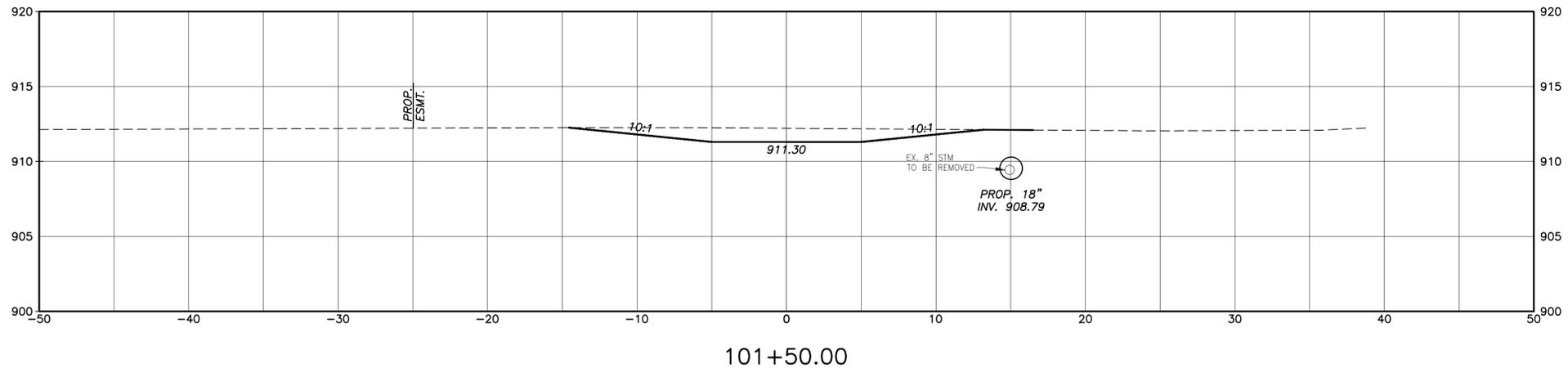
- EXISTING LATERAL CONNECTIONS**
- ⑥ N718954.37, E1777115.96  
EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ⑦ N718939.74, E1777146.76  
EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ⑧ N718932.47, E1777162.08  
EX. 6" LATERAL TO BE RECONNECTED TO PROP. STORM
  - ⑨ N718926.20, E1777234.17  
EX. 4" LATERAL TO BE RECONNECTED TO PROP. STORM

**PLAN AND PROFILE  
STA. 9+50 TO STA. 13+13**



**GOLFVIEW DRAINAGE  
IMPROVEMENT**

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NOTE: RIGHT PROPOSED EASEMENT LINE AT 55'

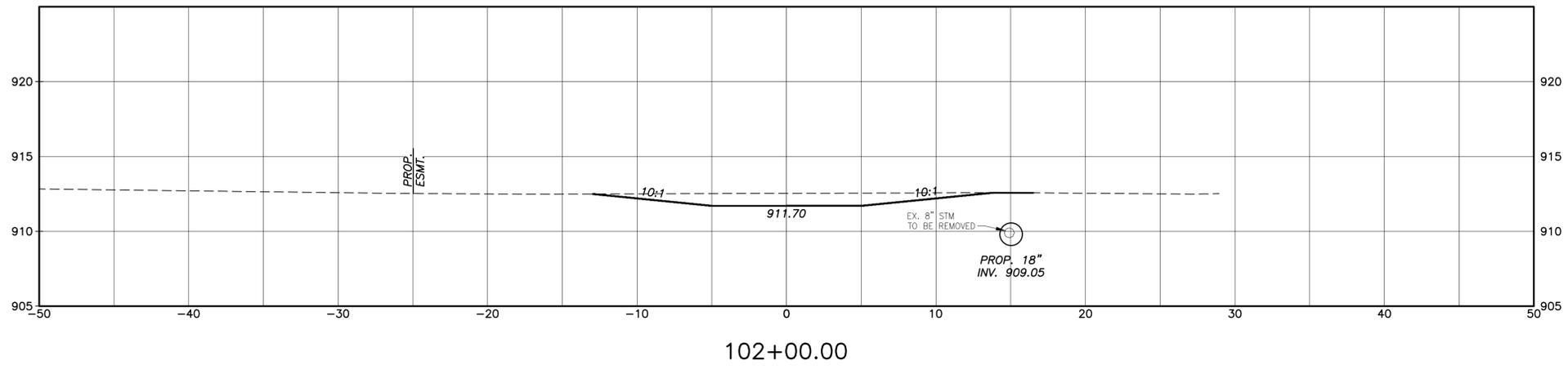
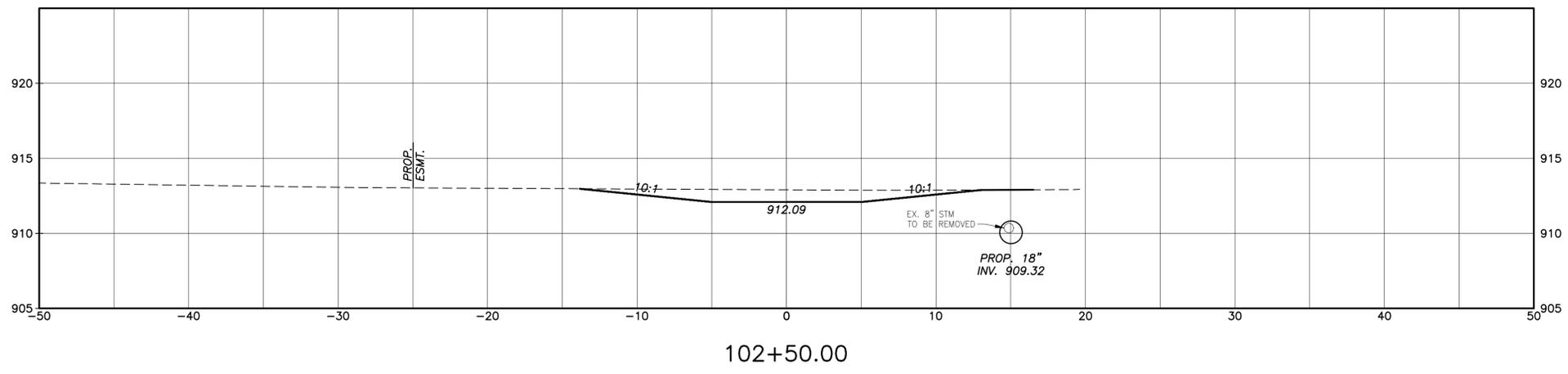
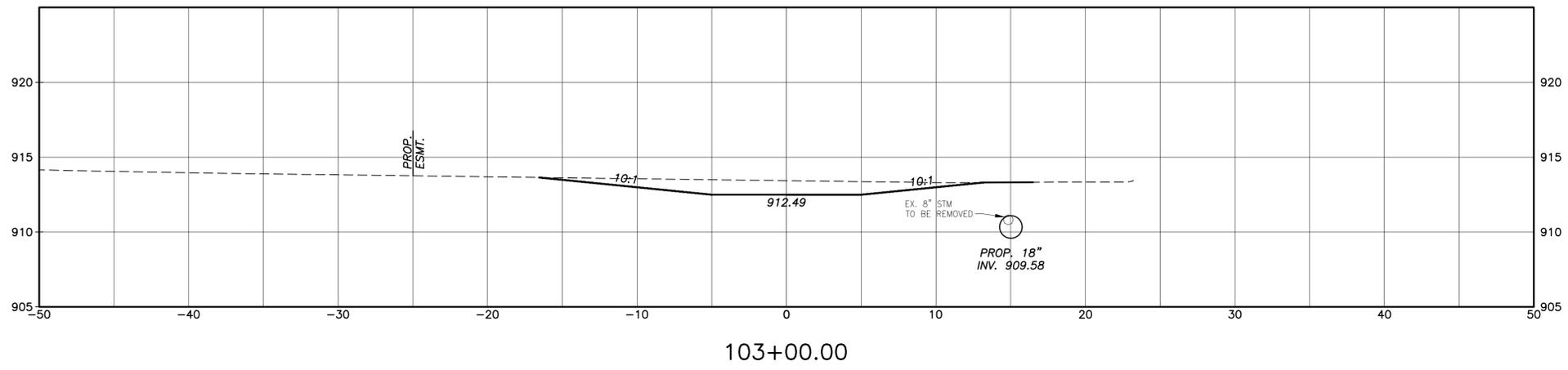
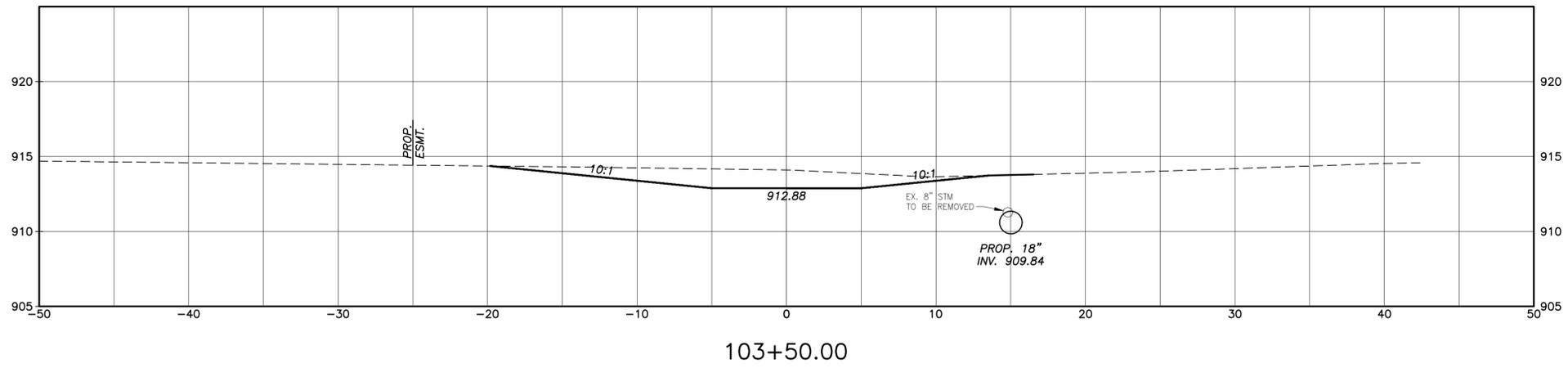
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CHECKED	MSL

0 5 10  
HORIZONTAL SCALE IN FEET

**CROSS SECTIONS  
STA. 100+00 TO STA. 101+50**

**GOLFVIEW DRAINAGE  
IMPROVEMENT**

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NOTE: RIGHT PROPOSED EASEMENT LINE AT 55'

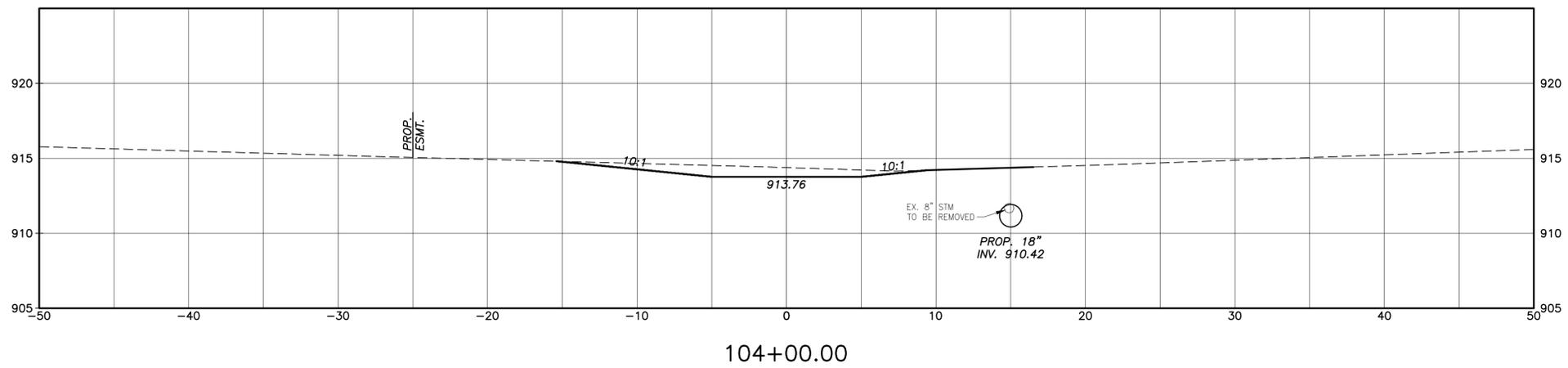
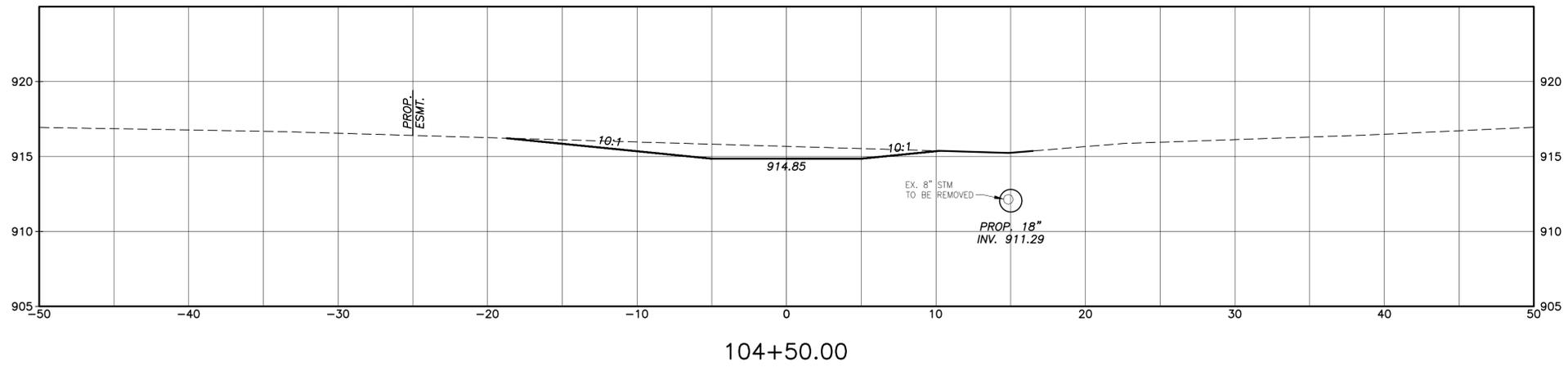


**CROSS SECTIONS  
STA. 102+00 TO STA. 103+50**

**GOLFVIEW DRAINAGE  
IMPROVEMENT**

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NOTE: RIGHT PROPOSED  
EASEMENT LINE AT 55'

CALCULATED  
MAB  
CHECKED  
MSL



CROSS SECTIONS  
STA. 104+00 TO STA. 104+50

GOLFVIEW DRAINAGE  
IMPROVEMENT