

GENERAL NOTES

- CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY PERMITS, THE CONTRACTOR SHALL PROVIDE TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. "RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- NON-RUBBER Tired VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT HIS OWN COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAID MUD, DIRT, DEBRIS, OR SPILLAGE. THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 636. ITEM 911 OF THE STANDARD SPECIFICATIONS MAY BE USED ELSEWHERE.
- THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION  
CITY OF COLUMBUS  
1800 EAST 17TH AVENUE  
COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING  
CITY OF DUBLIN  
5800 SHEIR RINGS ROAD  
DUBLIN, OH 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN-UP SHALL FOLLOW CLOSELY BEHIND TRENCHING OPERATIONS.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ZONE OF 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. DELETED

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. DELETED

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26-27. DELETED

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

**UNDERGROUND UTILITIES**

Two Working Days  
**BEFORE YOU DIG**

Call 800-362-2764 (Toll free)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

UTILITIES

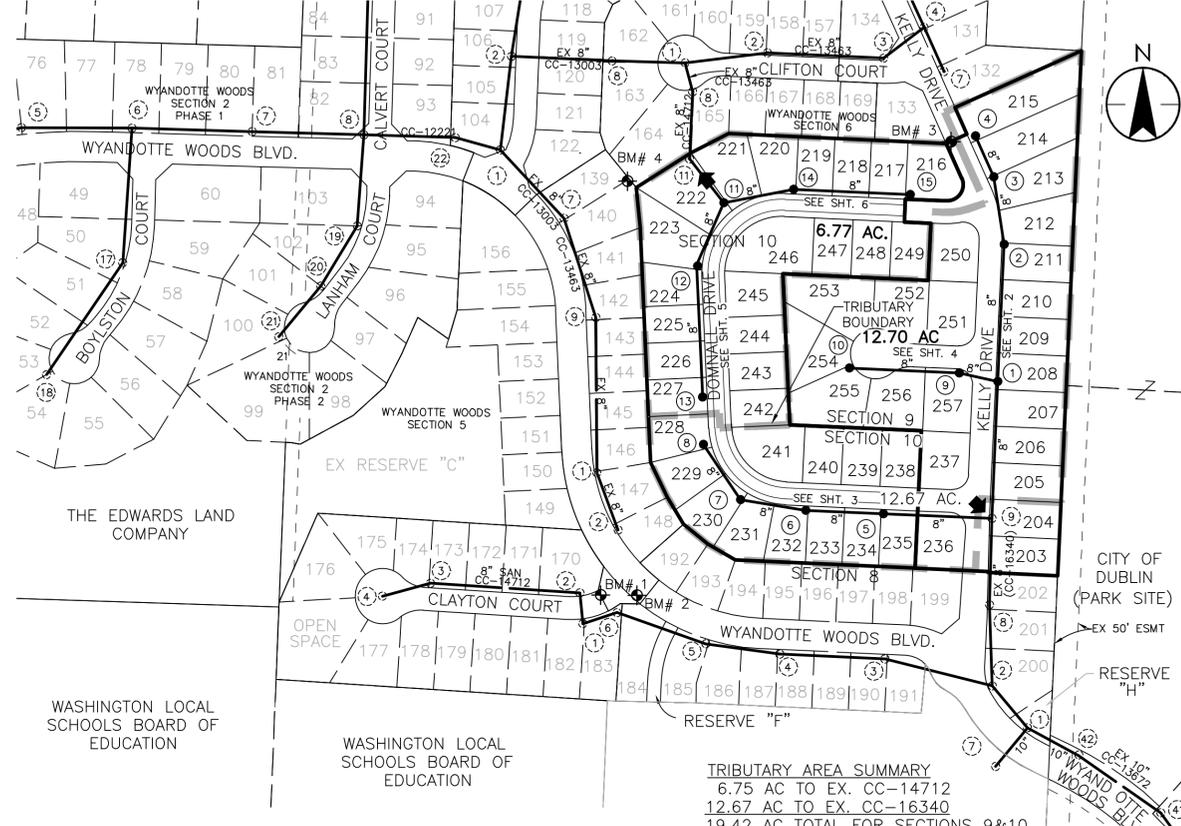
- THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:  
OHIO EDISON COLUMBIA GAS GTE
  - THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
  - THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
  - LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
  - PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.
- TRAFFIC CONTROL**
- DELETED.
  - STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
  - DELETED.
- EROSION AND SEDIMENT CONTROL**
- A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL. A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THE PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
  - THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
  - ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: HAY OR STRAW BALES, SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER.
  - THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
  - DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
- BLASTING (IF PERMITTED)**
- THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.
  - SANITARY SEWERS
- CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI) AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
  - SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
  - THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 15 INCH AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SEWERS LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
  - THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCH SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS.
  - ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18 INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
  - GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
  - ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR APPROVED BY CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
  - ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.
  - TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
  - ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
  - FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
  - AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
  - VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
  - ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
  - ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
  - SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
  - WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
  - THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

# CITY OF DUBLIN, OHIO

## PUBLIC SANITARY SEWER IMPROVEMENTS

### FOR WYANDOTTE WOODS SECTION 9 & 10

#### 2015



**ESTIMATE OF QUANTITIES**

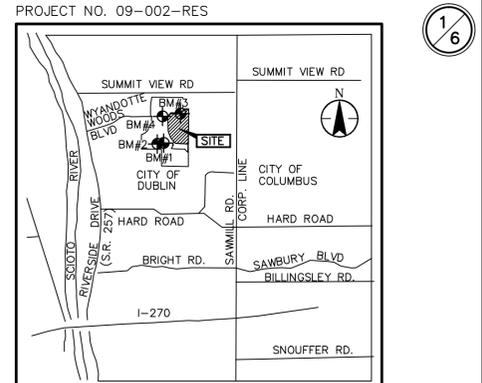
ITEM	UNIT	TOTAL	DESCRIPTION	SEC 9	SEC 10
604	EA	15	MANHOLE, TYPE C	7	8
901	LF	3297	8" DIA. SANITARY SEWER PIPE W/ TYPE I BEDDING	1870	1427
914	LF	59	6" DIA. PIPE RISERS	21	38
915	EA	53	8" X 6" DIA. WYE FITTING	23	30
918	LF	1203	6" DIA. SANITARY CONNECTION SERVICE	448	755
SPEC	SY	300	TEMPORARY CONSTRUCTION ROAD STABILIZATION	150	150

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATER TIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARS AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL. THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE THE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
- RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
  - KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
  - LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
  - OR EQUAL AS APPROVED BY THE CITY ENGINEER.
21. RUBBER GASKET COMPRESSION.
- PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
  - DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
  - LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
  - OR EQUAL AS APPROVED BY THE CITY ENGINEER.
- THE COST FOR THIS WORK ALONG WITH A NEW GANNETIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.
- MAIL DELIVERY**
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
  - BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

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THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

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- VICINITY MAP**  
NOT TO SCALE
- BENCH MARKS**  
(1988 DATUM)
- BM #1 CHISELED "□" SET @ W. END EX. CURB ON N. SIDE CLAYTON CT. 70' +/- W. OF WYANDOTTE WOODS BLVD. ELEV.= 927.19
  - BM #2 N. BOLT FH HYD AT SW COR. OF INTERSECTION WYANDOTTE WOODS BLVD. & CLAYTON CT. ELEV.= 929.98
  - BM #3 CHISELED "□" SET ON S. END EX. CURB ON W. SIDE KELLY DR. ELEV.= 934.88
  - BM #4 N. RIM OF EXISTING STORM MH IN N.E. CORNER OF EXISTING LOT #140 ELEV.= 923.92

**STANDARD DRAWINGS**

CITY OF COLUMBUS	
AA-S102	AA-S119
AA-S106	AA-S149
AA-S107	AA-S150
AA-S110	AA-S151
AA-S111 (FRAME ONLY)	AA-S160
AA-S117	AA-S161
CITY OF DUBLIN	
SA-01	SA-03

THE STANDARD DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE DRAWINGS.

PREPARED FOR:  
**HOMWOOD CORPORATION**  
2700 E DUBLIN GRANVILLE ROAD  
COLUMBUS, OHIO 43231  
(614)898-7700

PREPARED BY:  
**Stantec**  
1500 Lake Shore Drive, Suite 100  
Columbus, Ohio 43204  
(614) 486-4383  
(614) 486-4387

REGISTERED ENGINEER NO. DATE

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER PREPARING THE PLANS.

APPROVALS: **CITY OF DUBLIN, OHIO**

CITY ENGINEER, CITY OF DUBLIN, OHIO  
PAUL A. HAMMERSMITH, P.E.

DIRECTOR OF LAND USE & LONG RANGE PLANNING,  
CITY OF DUBLIN, OHIO

DATE DATE

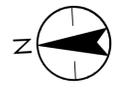
NOTE:  
APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO PROVISION OF THE SEWER SERVICE (AND/OR WATER) SERVICE AGREEMENT WITH THE CITY OF DUBLIN, OHIO DATED APRIL 13, 1993.

**CITY OF COLUMBUS, OHIO**

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES  
CITY OF COLUMBUS, OHIO

ADMINISTRATOR, DIVISION OF SEWERS AND DRAINS  
(AND/OR WATER) CITY OF COLUMBUS, OHIO

DATE DATE



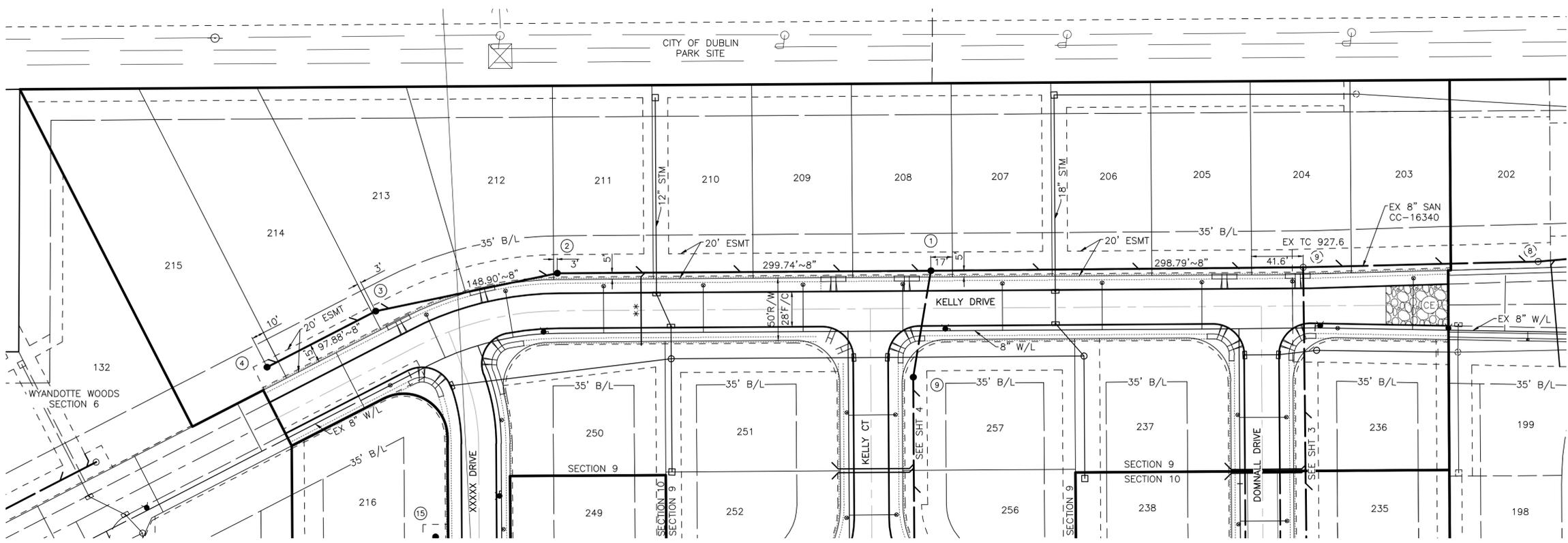
SERVICE AND RISER DATA

MH/LOT NO.	STATION	SERVICE LENGTH	RISER LENGTH	END OF SERVICE INV (INCLUDES RISER)	PERMIT NO.
EX 9	0+00.00				
206	0+53	2	4	918.5	
206	1+33	2	3	918.9	
207	2+13	2	2	919.4	
MH 1	2+98.79				
208	3+10	2	0	919.1	
209	3+73	2	0	919.4	
210	4+53	2	0	919.8	
211	5+31	2	0	920.2	
250	5+33	60	0	921.4	
MH 2	5+98.53				
212	6+08	2	0	922.6	
213	7+38	2	0	925.6	
MH 3	7+47.43				
214	7+65	2	0	926.1	
215	8+38	2	0	926.5	
MH 4	8+45.31				

NOTE: FOR LONG SERVICES, LOCATE AT LEAST 2' OF RISER AT END OF SERVICE. IF RISER IS 2' OR LESS LOCATE ENTIRE RISER AT END OF SERVICE.

STRUCTURE AND PIPE DATA

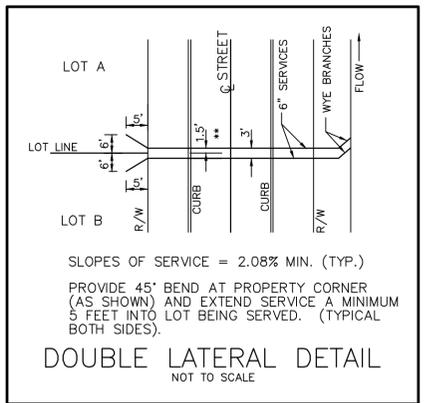
STRUCTURE NO.	NORTHING	EASTING	DISTANCE	DIRECTION	AS-BUILT NORTHING	AS-BUILT EASTING
Ex9	775421.58	1801772.07				
1	775720.09	1801784.89	298.79	N02°27'33"E		
2	776019.52	1801798.61	299.74	N02°37'25"E		
3	776166.67	1801775.88	148.90	N08°46'58"W		
4	776255.97	1801735.81	97.88	N24°09'47"W		



STATION	8	7	6	5	4	3	2	1	0	STATION
EX. GRND	935.5	933.5	933.0	930.7	930.1	927.6	927.1	927.7	927.3	EX. GRND
INVERT	925.57	924.02	921.72	919.32	918.82	918.32	916.44	914.64	912.84	INVERT
CUT	9.9	9.5	11.3	11.4	11.3	9.3	10.7	13.1	14.5	CUT

LEGEND

- EX STORM
- EX SAN
- EX WATERLINE
- PR STORM
- PR WATERLINE
- PR SAN
- EASEMENT
- CURB INLET
- CATCH BASIN
- MANHOLE



- \* COMPACTED BACKFILL PER ITEM 911.
- \*\* COMPACTED GRANULAR BACKFILL. SEE GENERAL NOTES.
- \*\*\* INFLOW & INFILTRATION BARRIER. SEE DETAIL, SHIT 3.

CITY OF DUBLIN, OHIO  
SANITARY SEWER IMPROVEMENTS  
FOR  
WYANDOTTE WOODS  
SECTION 9 & 10

PREPARED BY:

**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive, Suite 100, Columbus, Ohio 43204  
(614) 488-4388 1-800-340-2743  
FAX (614) 488-1351

DESIGN: TEW	SCALE: 1"=50'	ORDER NO.	DATE
DRAWN: TEW	HORIZ. 1"=50'		
CHECKED:	VERT. 1"=5'		

CC-17083

SERVICE AND RISER DATA

LOT #	STATION	SERVICE LENGTH	RISER LENGTH	END OF SERVICE INV (INCLUDES RISER)	PERMIT NO.
EX MH 9	0+00.00				
236	1+15	2	4	919.5	
237	1+60	65	3	920.5	
238	1+63	65	4	921.6	
235	1+72	2	4	920.4	
MH 5	2+37.86				
234	2+52	2	4	921.7	
239	3+30	65	0	919.4	
240	3+33	65	0	919.4	
233	3+34	2	3	921.1	
MH 6	4+07.86				
232	4+17	2	0	918.6	
241	4+85	58	0	920.0	
231	4+87	2	0	918.9	
MH 7	5+52.58				
230	5+60	2	0	919.3	
229	6+27	2	0	919.7	
228	6+87	15	0	920.4	
MH 8	6+97.42				

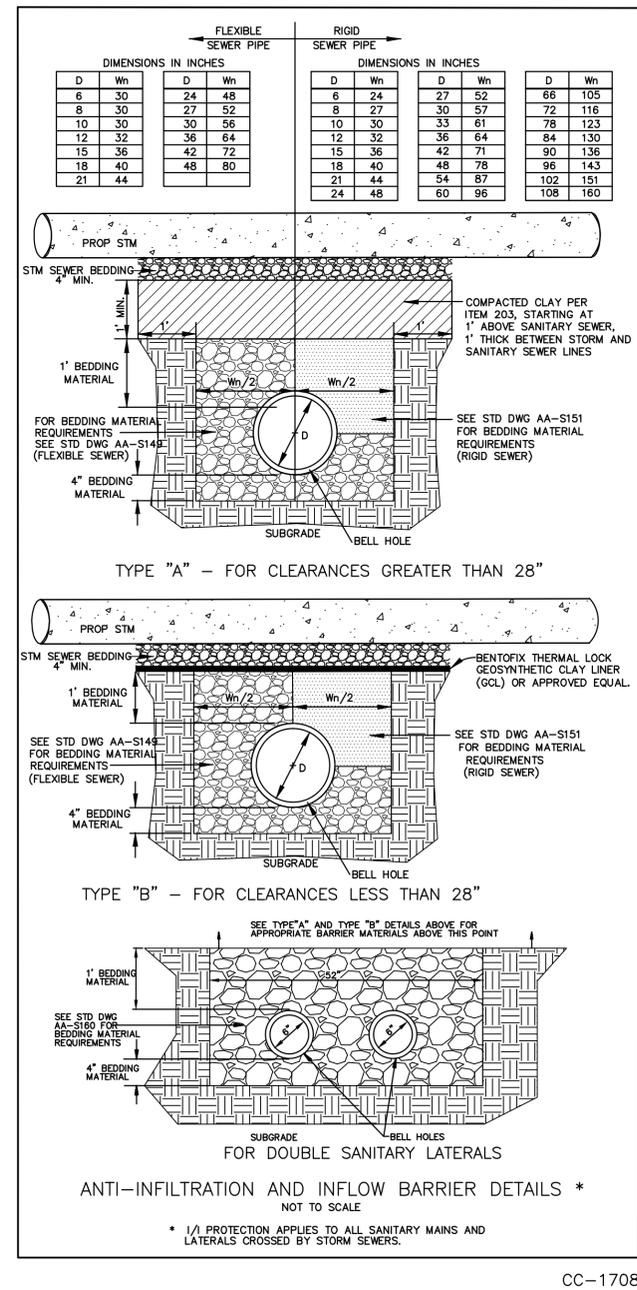
NOTE: FOR LONG SERVICES, LOCATE AT LEAST 2' OF RISER AT END OF SERVICE. IF RISER IS 2' OR LESS LOCATE ENTIRE RISER AT END OF SERVICE.

LEGEND

- EX STORM
- EX SAN
- EX WATERLINE
- PR STORM
- PR WATERLINE
- PR SAN
- EASEMENT
- CURB INLET
- CATCH BASIN
- MANHOLE

STRUCTURE AND PIPE DATA

STRUCTURE NO.	NORTHING	EASTING	DISTANCE	DIRECTION	AS-BUILT NORTHING	AS-BUILT EASTING
EX9	775421.58	1801772.07	237.86	N87°39'15"W		
5	775431.31	1801534.41	170.00	N87°22'36"W		
6	775439.10	1801364.59	144.72	N80°41'01"W		
7	775462.52	1801221.78	144.84	N33°53'40"W		
8	775582.75	1801141.01				



- \* COMPACTED BACKFILL PER ITEM 911.
- \*\* COMPACTED GRANULAR BACKFILL. SEE GENERAL NOTES.
- \*\*\* INFLOW & INFILTRATION BARRIER. SEE DETAIL, SHT 3.

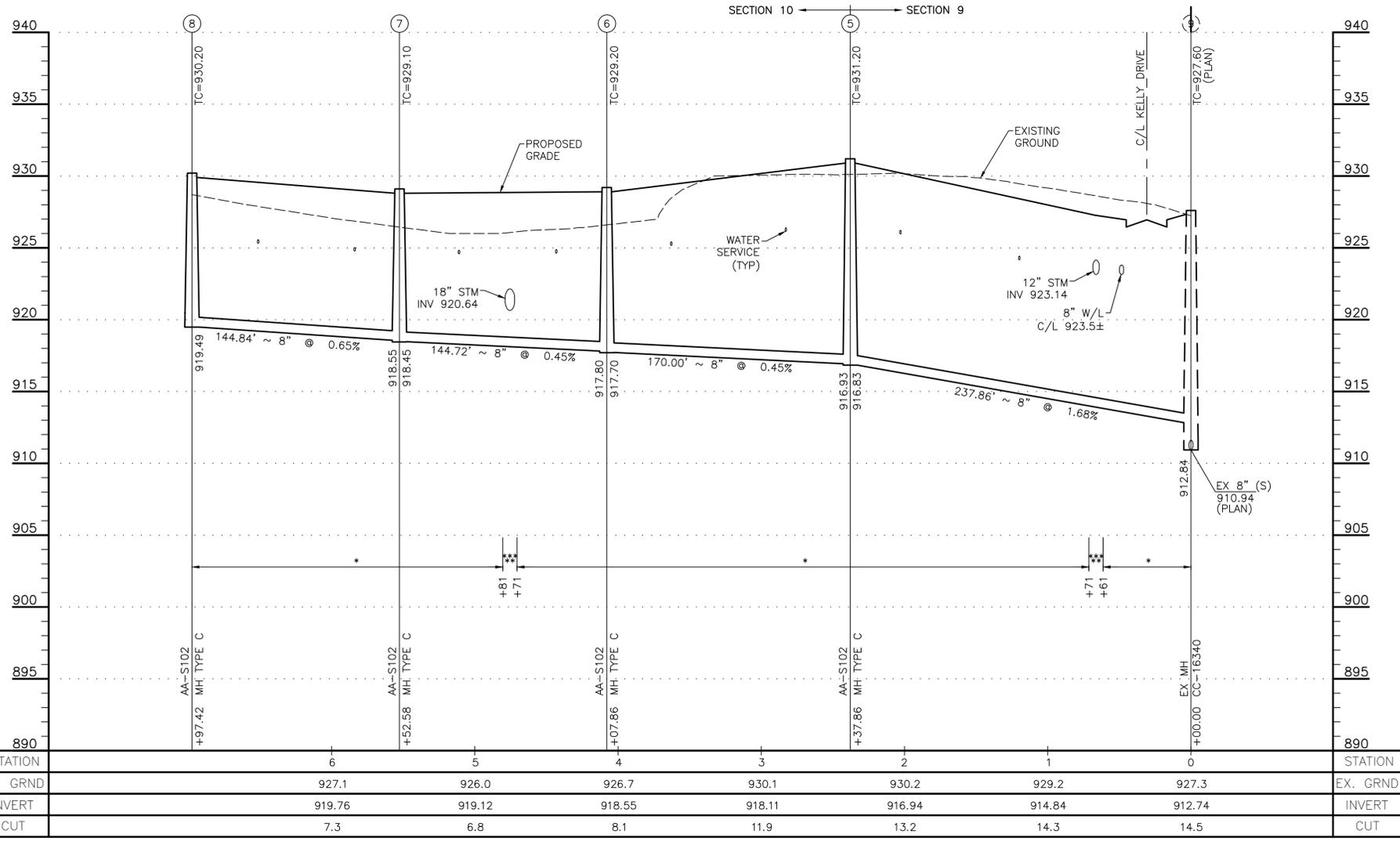
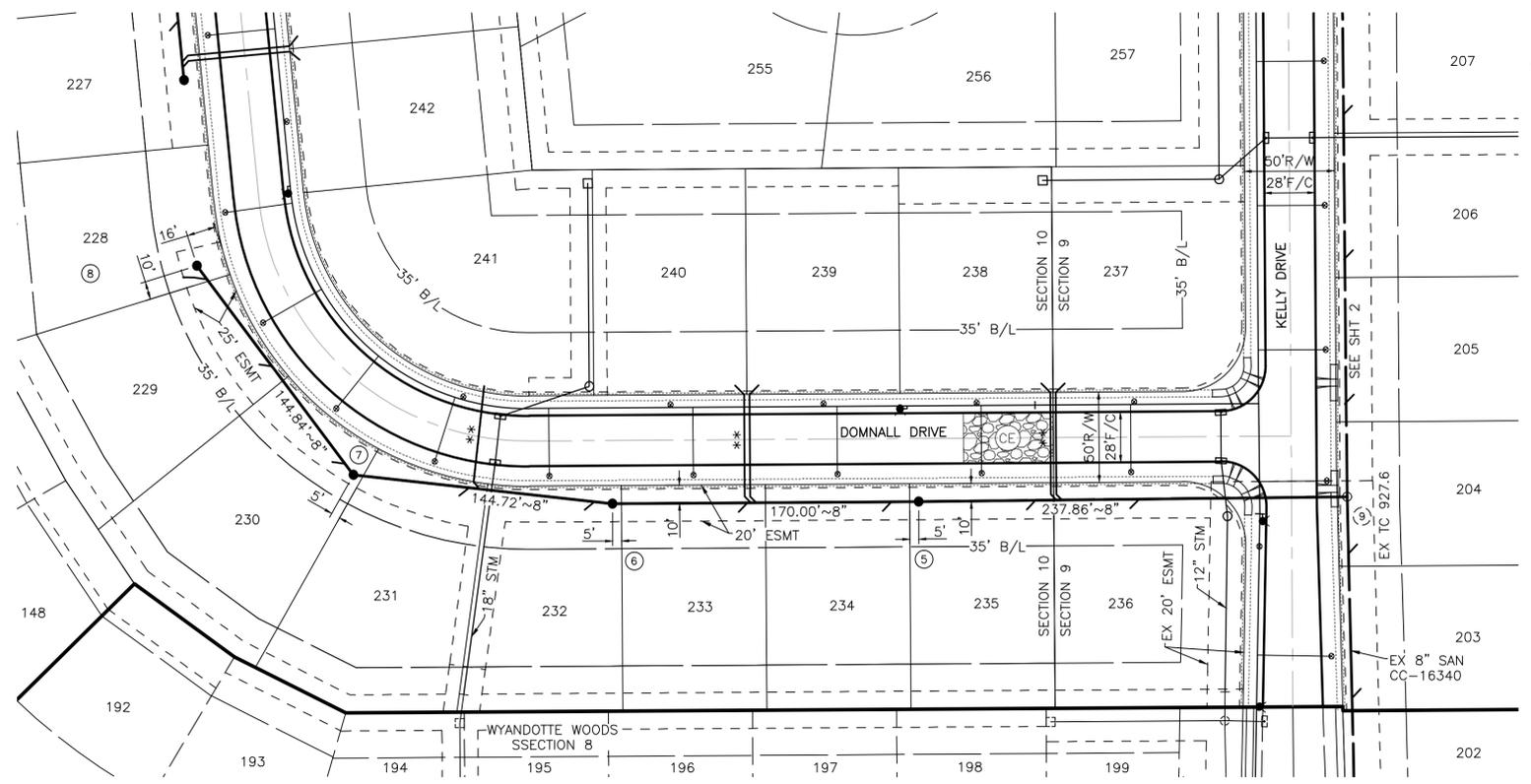
CITY OF DUBLIN, OHIO  
SANITARY SEWER IMPROVEMENTS  
FOR  
WYANDOTTE WOODS  
SECTION 9 & 10

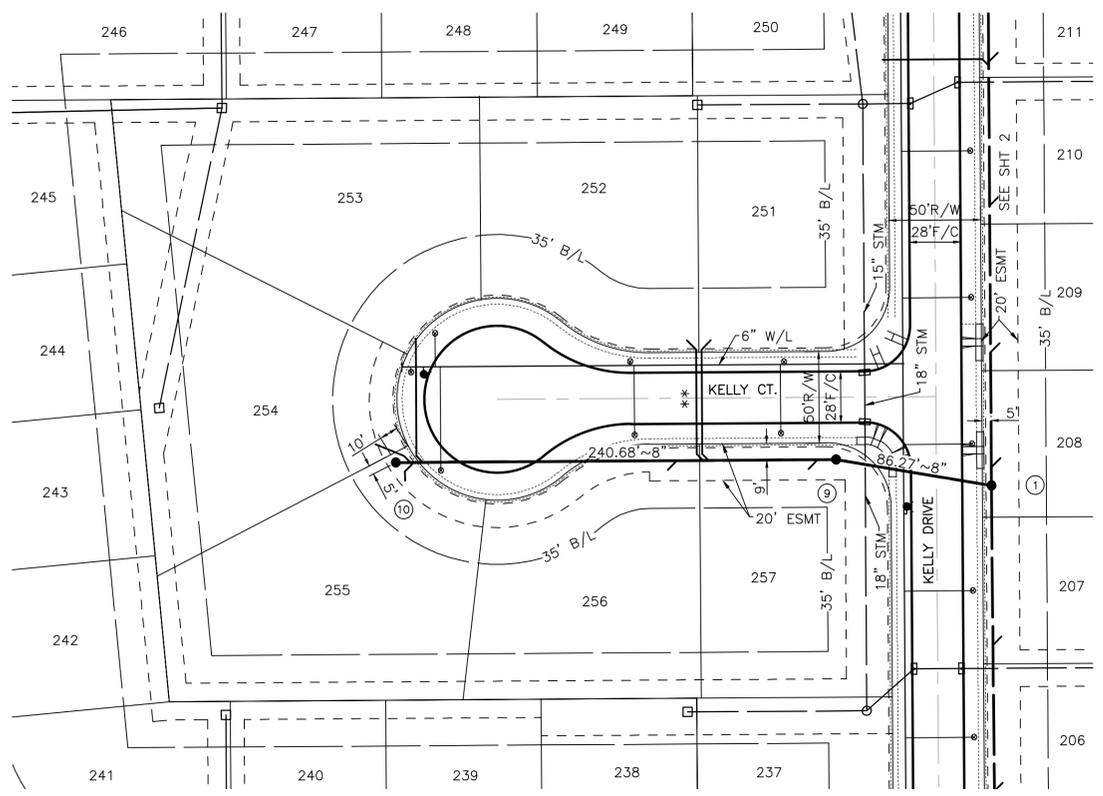
PREPARED BY:  
**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive, Suite 100, Columbus, Ohio 43260  
(614) 488-4388 1-800-340-2743  
FAX (614) 488-1357

DESIGN: TEW  
DRAWN: TEW  
CHECKED:

SCALE:  
HORZ. 1"=50'  
VERT. 1"=5'

ORDER NO. DATE





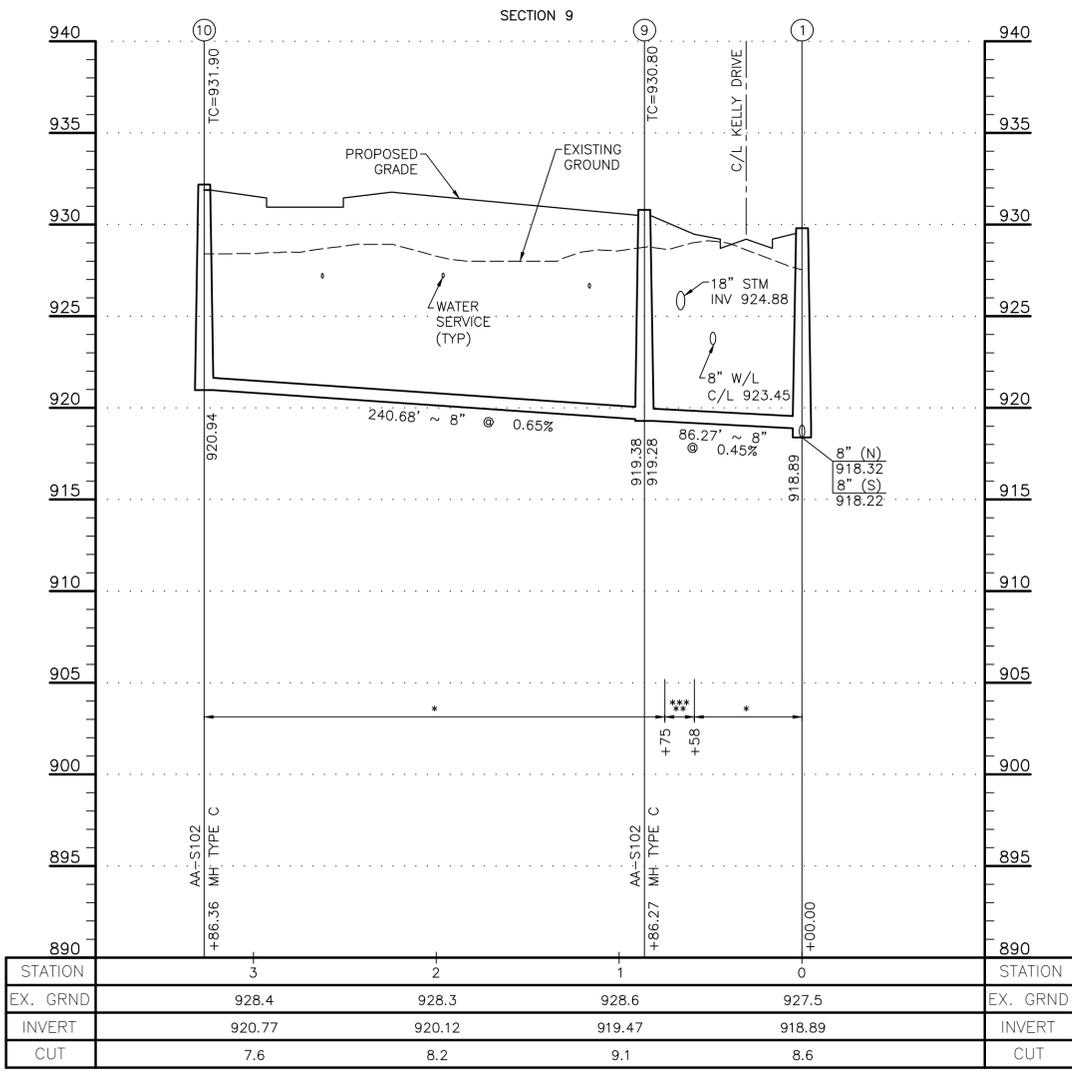
SERVICE AND RISER DATA

LOT #	STATION	SERVICE LENGTH	RISER LENGTH	END OF SERVICE INV (INCLUDES RISER)	PERMIT NO.
MH 1	0+00.00				
MH 9	0+86.27				
257	0+96	2	0	920.1	
251	1+61	65	0	921.9	
252	1+64	65	0	921.9	
256	1+73	2	0	920.7	
253	3+15	68	0	922.9	
255	3+17	10	0	921.8	
254	3+19	20	0	922.0	
MH 10	3+26.95				

NOTE: FOR LONG SERVICES, LOCATE AT LEAST 2' OF RISER AT END OF SERVICE. IF RISER IS 2' OR LESS LOCATE ENTIRE RISER AT END OF SERVICE.

STRUCTURE AND PIPE DATA

STRUCTURE NO.	NORTHING	EASTING	DISTANCE	DIRECTION	AS-BUILT NORTHING	AS-BUILT EASTING
1	775720.09	1801784.89				
9	775738.71	1801700.66	86.27	N77°32'21"W		
10	775749.50	1801460.23	240.68	N87°22'35"W		



- LEGEND**
- EX STORM
  - - - EX SAN
  - - - EX WATERLINE
  - PR STORM
  - PR SAN
  - PR WATERLINE
  - - - EASEMENT
  - CURB INLET
  - CATCH BASIN
  - MANHOLE

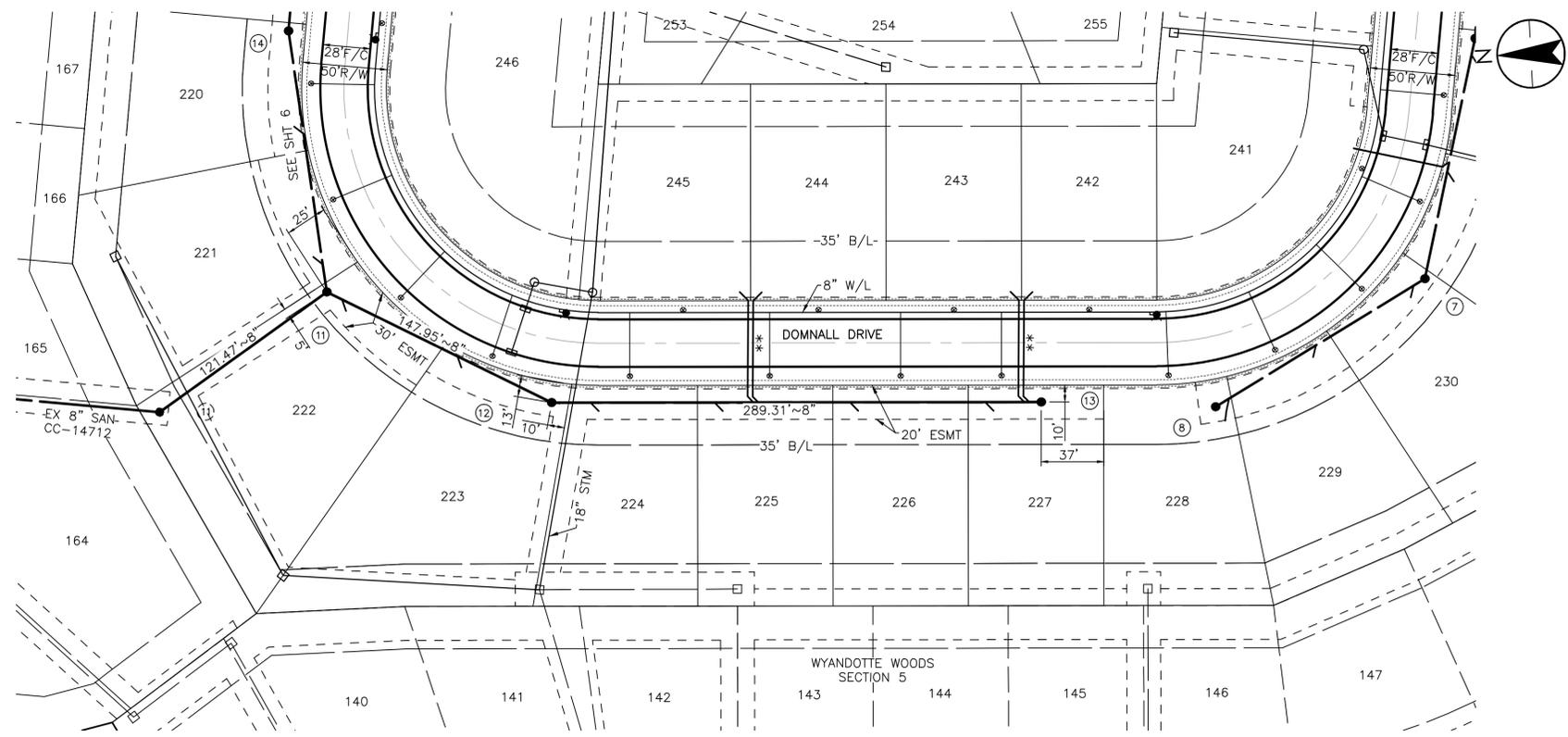
- \* COMPACTED BACKFILL PER ITEM 911.
- \*\* COMPACTED GRANULAR BACKFILL. SEE GENERAL NOTES.
- \*\*\* INFLOW & INFILTRATION BARRIER. SEE DETAIL, SHT 3.

CITY OF DUBLIN, OHIO  
SANITARY SEWER IMPROVEMENTS  
FOR  
WYANDOTTE WOODS  
SECTION 9 & 10

PREPARED BY:

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1500 Lake Shore Drive, Suite 100, Columbus, Ohio 43204  
(614) 488-4388 1-800-340-2743  
FAX (614) 488-1357

DESIGN: TEW	SCALE:	ORDER NO.	DATE
DRAWN: TEW	HORIZ. 1"=50'		
CHECKED:	VERT. 1"=5'		



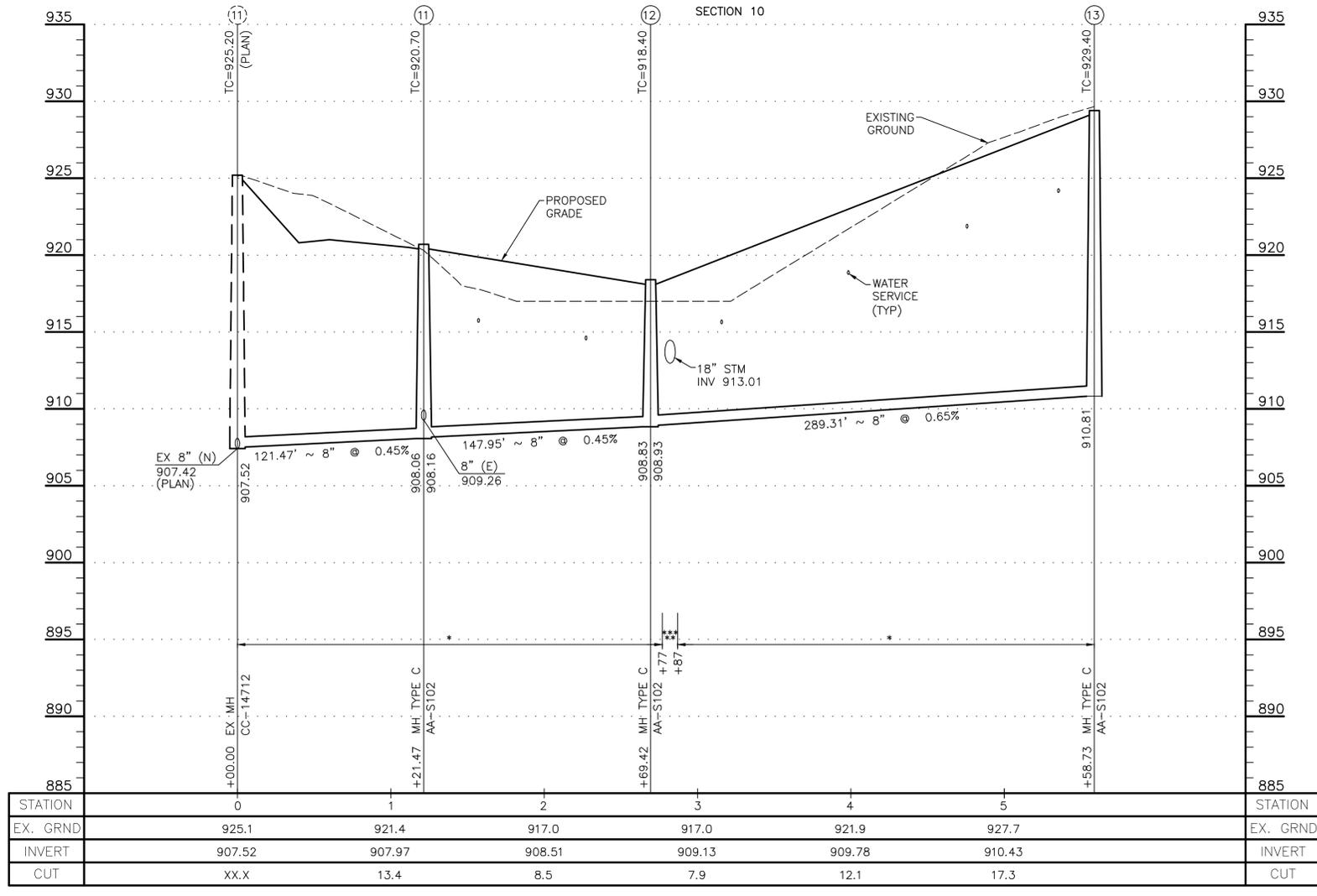
SERVICE AND RISER DATA

LOT #	STATION	SERVICE LENGTH	RISER	END OF SERVICE INV (INCLUDES RISER)	PERMIT NO.
EX MH 11	0+00.00				
MH 11	1+21.47				
222	1+30	2	2	910.9	
223	2+07	2	0	909.3	
MH 12	2+69.42				
224	2+91	2	0	909.8	
225	3+65	2	0	910.3	
245	3+84	65	0	911.7	
244	3+87	65	0	911.7	
226	4+45	2	4	914.8	
227	5+25	2	8	919.3	
243	5+44	65	7	919.7	
242	5+47	65	7	919.8	
MH 13	5+58.73				

NOTE: FOR LONG SERVICES, LOCATE AT LEAST 2' OF RISER AT END OF SERVICE. IF RISER IS 2' OR LESS LOCATE ENTIRE RISER AT END OF SERVICE.

STRUCTURE AND PIPE DATA

STRUCTURE NO.	NORTHING	EASTING	DISTANCE	DIRECTION	AS-BUILT NORTHING	AS-BUILT EASTING
Ex11	776206.01	180110.67				
11	776110.46	1801185.67	121.47	S38°07'49"E		
12	775974.92	1801126.33	147.95	S23°38'22"W		
13	775685.91	1801139.27	289.31	S02°31'17"E		



LEGEND

- = EX STORM
- - - = EX SAN
- - - = EX WATERLINE
- = PR STORM
- = PR WATERLINE
- = PR SAN
- - - = EASEMENT
- = CURB INLET
- = CATCH BASIN
- = MANHOLE

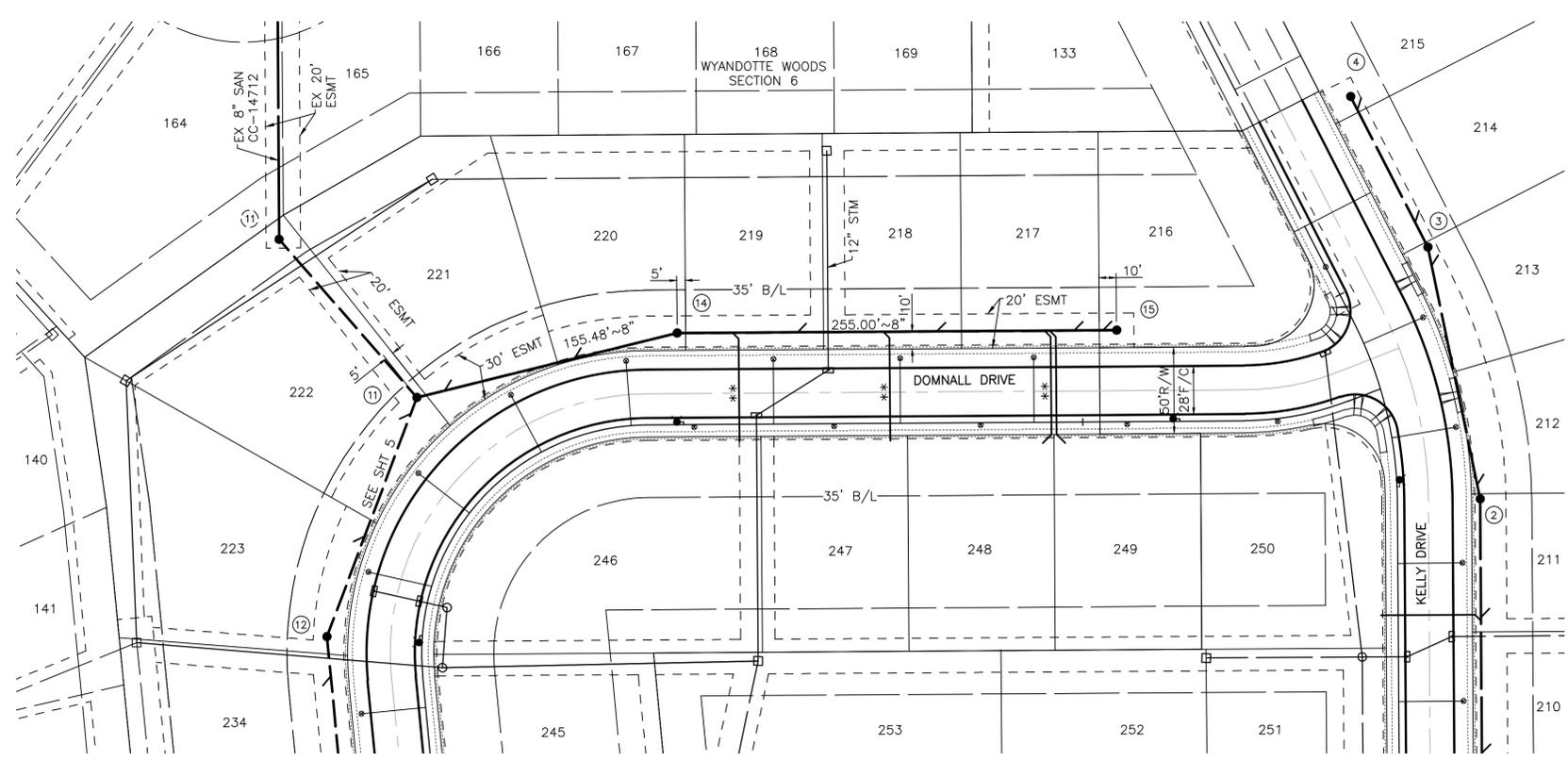
- \* COMPACTED BACKFILL PER ITEM 911.
- \*\* COMPACTED GRANULAR BACKFILL. SEE GENERAL NOTES.
- \*\*\* INFLOW & INFILTRATION BARRIER. SEE DETAIL, SHT 3.

CITY OF DUBLIN, OHIO  
SANITARY SEWER IMPROVEMENTS  
FOR  
WYANDOTTE WOODS  
SECTION 9 & 10

PREPARED BY:

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1500 Lake Shore Drive, Suite 100, Columbus, Ohio 43204  
(614) 488-4388 1-800-340-2743  
FAX (614) 488-1351

DESIGN: TEW	SCALE: HORZ. 1"=50' VERT. 1"=5'	ORDER NO.	DATE
DRAWN: TEW			
CHECKED:			



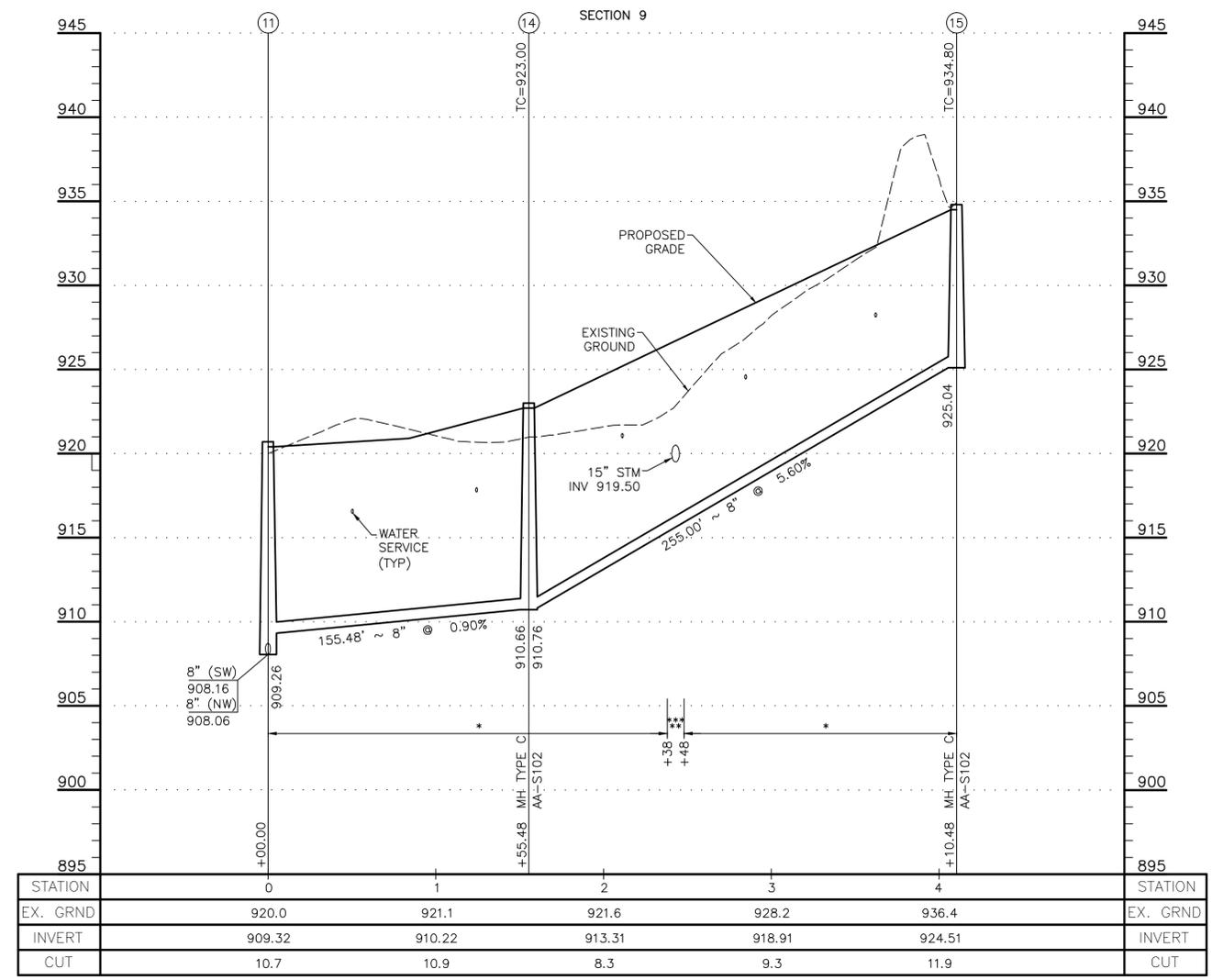
SERVICE AND RISER DATA

LOT #	STATION	SERVICE LENGTH	RISER LENGTH	END OF SERVICE INV (INCLUDES RISER)	PERMIT NO.
MH 11	0+00.00				
221	0+17	2	0	910.1	
220	0+94	2	0	910.8	
MH 14	1+55.48				
246	1+91	63	0	914.7	
219	2+25	2	2	917.4	
247	2+78	63	0	919.6	
218	3+06	2	2	921.9	
248	3+72	65	0	924.9	
249	3+75	65	0	925.1	
217	3+86	2	0	924.4	
216	4+02	2	0	925.3	
MH 15	4+10.48				

NOTE: FOR LONG SERVICES, LOCATE AT LEAST 2' OF RISER AT END OF SERVICE. IF RISER IS 2' OR LESS LOCATE ENTIRE RISER AT END OF SERVICE.

STRUCTURE AND PIPE DATA

STRUCTURE NO.	NORTHING	EASTING	DISTANCE	DIRECTION	AS-BUILT NORTHING	AS-BUILT EASTING
11	776110.46	1801185.67				
14	776139.72	1801338.37	155.48	N79°09'13"E		
15	776128.05	1801593.11	255.00	S87°22'35"E		



- LEGEND
- EX STORM
  - EX SAN
  - EX WATERLINE
  - PR STORM
  - PR WATERLINE
  - PR SAN
  - EASEMENT
  - CURB INLET
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DRAWN: TEW	HORZ. 1"=50'		
CHECKED:	VERT. 1"=5'		

# CITY OF DUBLIN, OHIO PUBLIC STREET, STORM & WATER IMPROVEMENTS FOR WYANDOTTE WOODS SECTION 9 & 10 2016

STANDARD DRAWINGS				
CITY OF COLUMBUS				
AA-S102	AA-S139	L-1001	L-6310	L-6640
AA-S106	AA-S149	L-1003	L-6311	L-7001
AA-S107	AA-S150	L-1004	L-6312	L-7103
AA-S117	AA-S151	L-6101	L-6316A	L-7601
AA-S119	AA-S112	L-6306	L-6316B	L-8503
AA-S125(FRAME ONLY)	L-6309A	L-6320	L-6409A	L-9002E
AA-S128	L-6309B	L-6409A	L-9901	
AA-S133		L-6637A		
CITY OF DUBLIN (2014)				
PD-01	ST-01	RD-01	RD-10	
PD-02	ST-03	RD-02	WA-1	
PD-03	ST-05	RD-03		
PD-04	ST-06	RD-05		
PD-06		RD-06		
PD-08		RD-07 (MOD)		
		RD-09		

ODOT  
CB 3A

THE STANDARD DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE DRAWINGS.

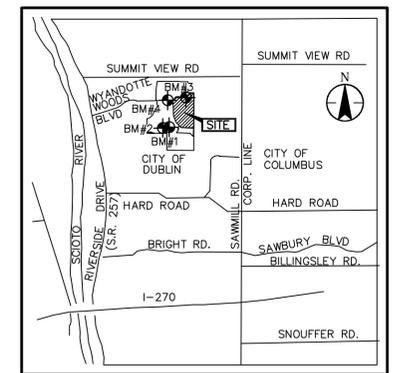
ZONING: P.U.D.

### INDEX OF SHEETS

- SHEET 1 COVER SHEET & QUANTITIES
- SHEET 2 GENERAL NOTES
- SHEET 3 QUANTITIES & TYPICAL SECTIONS
- SHEET 4 INTERSECTION DETAILS
- SHEET 5 PLAN & PROFILE KELLY DRIVE
- SHEET 6 PLAN & PROFILE KELLY COURT
- SHEET 7-9 PLAN & PROFILE DOMNALL DRIVE
- SHEET 10 STORM SEWER PROFILES
- SHEET 11 EXISTING BASIN EXPANSION PLAN
- SHEET 12 EROSION CONTROL NARRATIVE & DETAILS
- SHEET 13 GRADING & EROSION CONTROL PLAN

### BENCH MARKS

- BM #1 CHISELED "□" SET @ W. END EX. CURB ON N. SIDE CLAYTON CT. 70' +/- W. OF WYANDOTTE WOODS BLVD. ELEV.= 927.19
- BM #2 N. BOLT FH HYD AT SW COR. OF INTERSECTION WYANDOTTE WOODS BLVD. & CLAYTON CT. ELEV.= 929.98
- BM #3 CHISELED "□" SET ON S. END EX. CURB ON W. SIDE KELLY DR. ELEV.= 934.88
- BM #4 N. RIM OF EXISTING STORM MH IN N.E. CORNER OF EXISTING LOT #140 ELEV.= 923.92



VICINITY MAP  
NOT TO SCALE

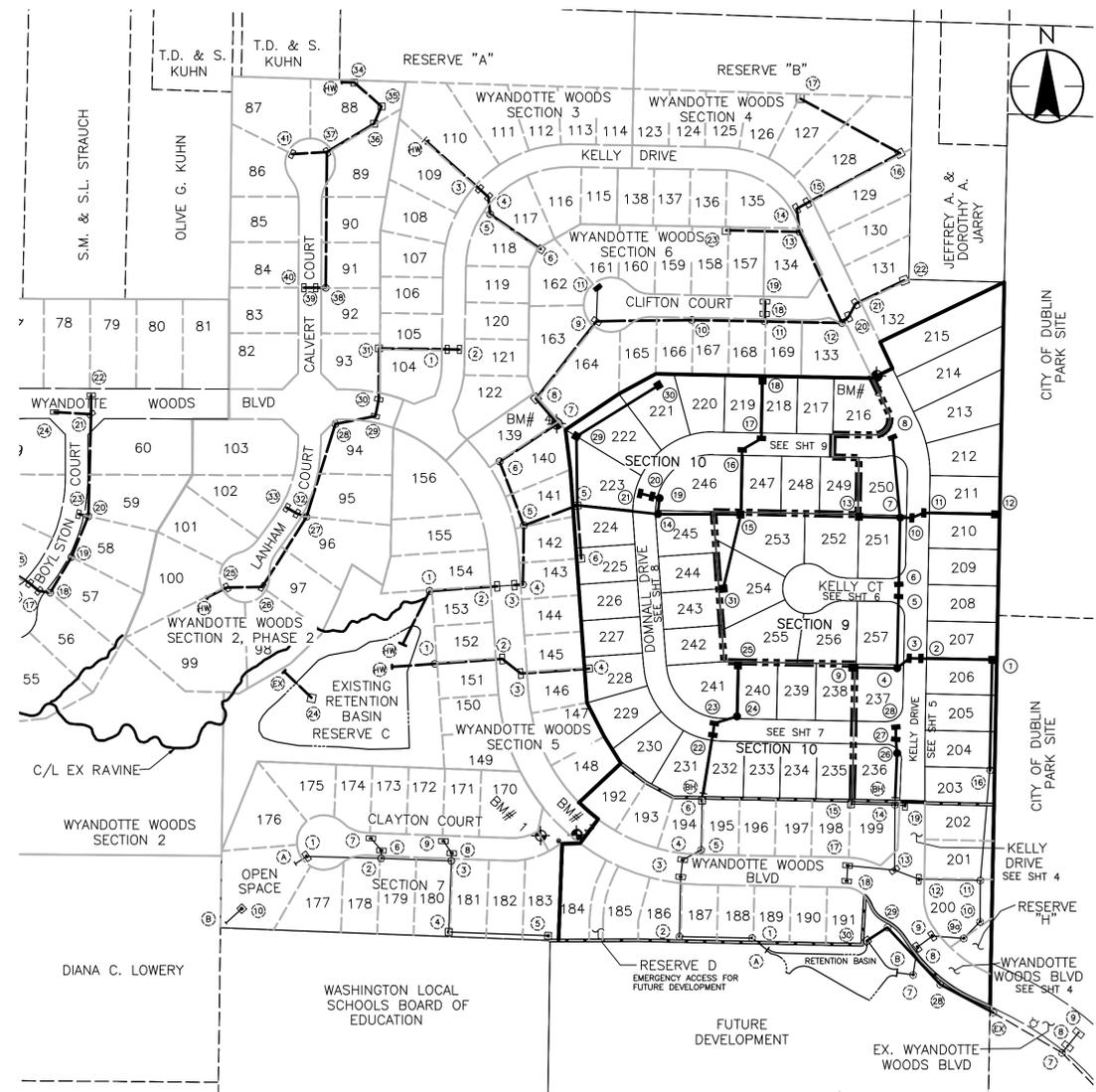


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CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
**BEFORE YOU DIG**  
OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-929-0988

PREPARED FOR:  
**HOMWOOD CORPORATION**  
2700 E. DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43231  
(614) 989-7700



PREPARED BY:  
**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive Suite 100 Columbus, Ohio 43204  
(614) 486-4383 1-800-340-2743  
FAX (614)-486-1351



BACKGROUND & INDEX MAP

SCALE: 1"=200'

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NOTICE TO CONTRACTORS: THE ELECTRONIC FILES FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE OF, AND ARE OWNED BY STANTEC CONSULTING SERVICES, INC. DATA FROM SUCH ELECTRONIC FILES CAN BE PROVIDED FOR CONSTRUCTION STAKING. CONTACT KEVIN KERSHNER, P.E., STANTEC'S PROJECT MANAGER FOR THIS PROJECT, FOR INFORMATION ABOUT THE FEES ASSOCIATED WITH PROVIDING SUCH DATA AND THE RELEASE AND INDEMNITY THAT MUST BE SIGNED BEFORE THE DATA IS RELEASED.

REGISTERED ENGINEER \_\_\_\_\_ NO. \_\_\_\_\_ DATE \_\_\_\_\_

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

APPROVALS: **CITY OF DUBLIN, OHIO**

CITY ENGINEER, CITY OF DUBLIN, OHIO \_\_\_\_\_ DATE \_\_\_\_\_  
PAUL A. HAMMERSMITH, P.E.

NOTE:  
APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO PROVISION OF THE WATER SERVICE AGREEMENT WITH THE CITY OF DUBLIN, OHIO DATED APRIL 13, 1993.

CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF COLUMBUS, OHIO

ADMINISTRATOR, DIVISION OF WATER \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF COLUMBUS, OHIO

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GENERAL NOTES

- CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2012 EDITION, INCLUDING ALL SUPPLEMENTS THERETO, AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.
- THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTling OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- NON-RUBBER Tired VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF TYPE II ACCORDING TO ITEM 616. ITEM 911 OF THE STANDARD SPECIFICATIONS MAY BE USED ELSEWHERE.
- THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.  
SEND THE INFORMATION TO THE FOLLOWING ADDRESS:  
CONSTRUCTION INSPECTION DIVISION  
CITY OF COLUMBUS  
1800 EAST 17TH AVENUE  
COLUMBUS, OHIO 43219  
SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:  
DIVISION OF ENGINEERING  
CITY OF DUBLIN  
5800 SHIER RINGS ROAD  
DUBLIN, OHIO 43016
- ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN-UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

- ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
- PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
- TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
- ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
- ALL INLETS SHALL BE CHANNELIZED.
- PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE: IMPROVED KENTUCKY BLUEGRASS, 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) IMPROVED PERENNIAL RYE, 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) GERMINATION RATE: 85% APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
- TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
- STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

**BLASTING (IF PERMITTED)**

- THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

**UTILITY**

- THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT.

UTILITY	ADDRESS	TELEPHONE
AEP	850 TECH CENTER DRIVE GAHANNA, OHIO 43230-6605	PAUL PAXTON 614 883-7833
AMERITECH	150 E. GAY STREET COLUMBUS, OHIO 43215	RICK WHEELER 614 223-4587
COLUMBIA GAS OF OHIO	200 CIVIC CENTER DRIVE COLUMBUS, OHIO 43216	DAVE KELLY 460-4616
FIRE HYDRANTS & SEWERS STREET LIGHTS AND TRAFFIC SIGNS	CITY OF DUBLIN 5800 SHIER RINGS ROAD DUBLIN, OHIO 43016	410-4600
WATER FACILITIES	CITY OF COLUMBUS (DIVISION OF WATER) 910 DUBLIN ROAD COLUMBUS, OHIO 43215	645-7788
TIME WARNER	1266 DUBLIN ROAD COLUMBUS, OHIO 43215	KEVIN RICH 614 481-5263
- THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
- THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN PUBLIC RIGHT-OF-WAY SHALL HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
- LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

**TRAFFIC CONTROL**

- TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
- ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- IF THE CITY ENGINEER DETERMINES PROPER PROVISIONS FOR TRAFFIC CONTROL ARE NOT BEING PROVIDED BY THE CONTRACTOR, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
- STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

**SANITARY SEWER**

- NOTES 1 THRU 13 DELETED.
- ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
  - ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

**WATER LINE**

- THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2012 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.
- ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.
- FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
- ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.
- IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.
- NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).
- APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF. (MUST APPEAR ABOVE COLUMBUS SIGNATURE BLOCK).  
  
(BEXLEY - JANUARY 01, 1991); (BRICE - JANUARY 01, 2015);  
(DUBLIN - APRIL 13, 1993);  
(FRANKLIN COUNTY - MARCH 5, 2013); (FRANKLIN SEWER DISTRICT NO. 4 - JANUARY 01, 1995);  
(GAHANNA - JULY 01, 1999); (GRANDVIEW - AUGUST 13, 2014);  
(GROVEPORT - JUNE 03, 2015); (GROVE CITY - FEBRUARY 05, 2001);  
(HILLIARD - FEBRUARY 09, 1990); (MARBLE CLIFF - MARCH 05, 2013);  
(MINERVA PARK - JULY 01, 2013); (NEW ALBANY - JANUARY 26, 2012)  
(OBETZ - APRIL 03, 1995); (REYNOLDSBURG - JANUARY 01, 1995);  
(RIVERLEA - MAY 05, 2014); (UPPER ARLINGTON - DECEMBER 03, 1999);  
(URBANCREST - JULY 26, 1999); (VALLEY VIEW - JANUARY 01, 2014);  
(WHITEHALL - MARCH 05, 2013); (WORTHINGTON - APRIL 9, 2008);
- THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.
- ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

- ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: 150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.
- ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.15 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE CITY OF CITY OF DUBLIN SHALL SUBMIT A WRITTEN REQUEST FOR CHLORINATION OF THE MAINS THAT NEED DISINFECTED, THREE (3) SETS OF "AS-BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS-BUILT SURVEY COORDINATES, WATER SERVICE REPORTS AND A PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.
- ONLY ONE CONNECTION TO AN EXISTING WATER LINE IS PERMITTED BEFORE DISINFECTION OF A NEW WATER LINE HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE LINE HAS BEEN DISINFECTED.
- WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF SERVICES. TO ENSURE THAT ALL EXISTING SERVICES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND SERVICE BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).
- ALL WATER METERS ASSOCIATED WITH THIS PROJECT SHALL BE INSTALLED INSIDE THE PROPOSED STRUCTURE UNLESS A METER PIT IS APPROVED BY THE ADMINISTRATOR OF THE DIVISION OF WATER. ALL METER PITS MUST CONFORM TO STANDARD DRAWING L-7103 FOR 5/8" THROUGH 1" METERS OR L-6317 A, B, C, D, & E FOR 1-1/2" OR LARGER METERS.
- NO SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY SERVICE TAPS UNTIL WATER MAINS HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER. WHEN A 3-INCH OR LARGER TAP IS TO OCCUR ON A 20-INCH OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT (614)-645-7168 TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.
- WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.
- MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS. FOR INSTANCES WHERE TEN (10) FEET OF HORIZONTAL SEPARATION CANNOT BE MAINTAINED FROM A SEWER STRUCTURE, THE WATER LINE SHALL BE INSTALLED SUCH THAT THE STRUCTURE IS CENTERED BETWEEN THE PIPE JOINTS ON A FULL LENGTH (18 FOOT MINIMUM) PIECE OF WATER PIPE.
- WHEN CONTROLLED DENSITY FILL (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER LINE.
- "SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, REFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500' WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NRSR2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXX.XX, E XXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

NO SHUTS ARE PERMITTED TO OCCUR ONE (1) BUSINESS DAY BEFORE A FEDERAL HOLIDAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

NO SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY SERVICE TAPS UNTIL WATER MAINS HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.

ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY FROM SANITARY SEWERS AND STORM SEWERS TO THE GREATEST EXTENT APPLICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS.

INDIVIDUAL BOOSTER PUMPS SHALL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE.

THE NORMAL WORKING PRESSURE IN THE WATERLINES SHALL NOT BE LESS THAN 35 PSI.

**STORM SEWER**

- ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE, HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C 76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCHES PIPE, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS, AS DIRECTED BY THE CITY ENGINEER.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
- HEADWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORM WATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING "DUMP NO WASTE; DRAINS TO RIVER".
- STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

**MAIL DELIVERY**

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT U.S. MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
  - BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.
- TRASH AND OLD FENCING SHALL BE REMOVED FROM THE SITE, COST TO BE INCLUDED IN MISCELLANEOUS BID ITEMS.

**USE OF FIRE HYDRANTS**

- THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10

**GENERAL NOTES**

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
(614) 486-4383 1-800-340-2743 FAX (614)-486-4387



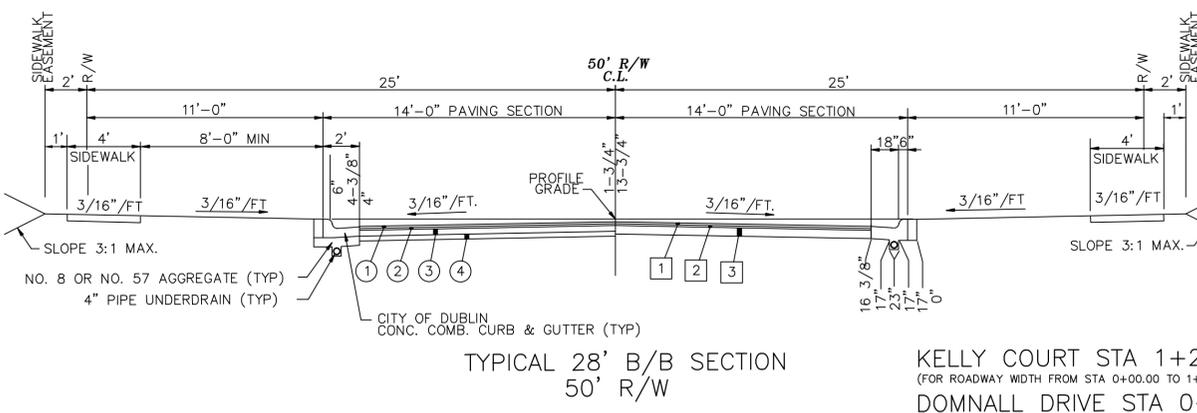
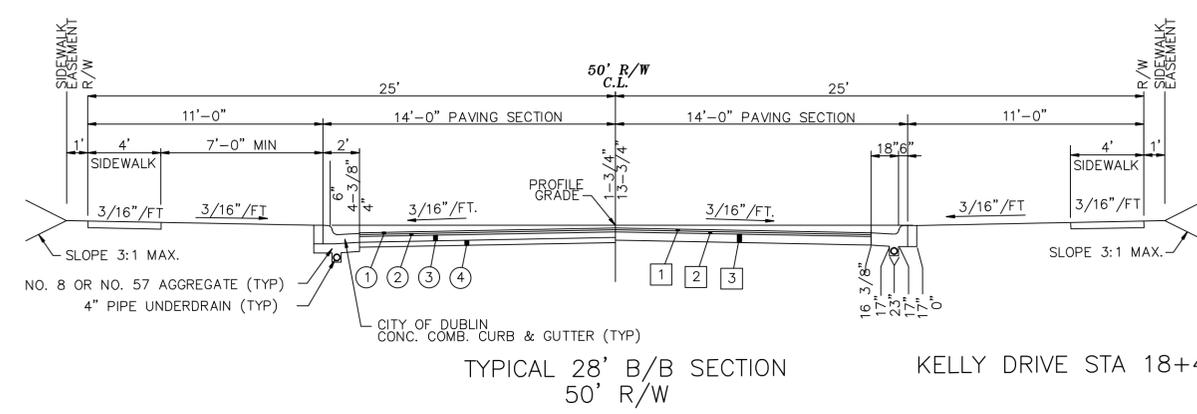
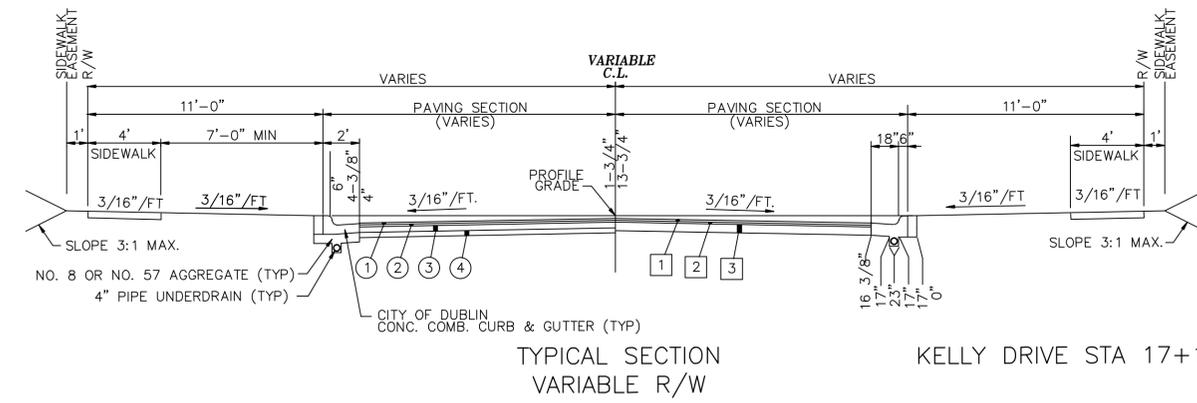
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ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL	DESCRIPTION	SEC 9	SEC 10
<b>STREET</b>					
202	EA	2	TEMPORARY BARRICADE REMOVED AND DISPOSED OF	2	-
203	CY	-	EXCAVATION INCLUDING EMBANKMENT	-	-
301	CY	2030	BITUMINOUS AGGREGATE BASE	1127	903
304	CY	1354	AGGREGATE BASE	752	602
448	CY	395	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 PG 64-22, MEDIUM TRAFFIC	219	176
448	CY	283	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG 64-22, MEDIUM TRAFFIC	157	126
413	LF	36	CRACK SEAL	36	-
499	SY	204	4" CONCRETE, CLASS C (NO FLYASH, NO SLAG)	204	-
605	LF	5624	4" PIPE UNDERDRAIN	2914	2710
608	EA	18	CURB RAMP W/DETECTABLE WARNING	18	-
609	LF	5624	COMBINATION CURB & GUTTER	2914	2710
SPEC	SY	7153	SEEDING & MULCHING (R/W AREAS)	3841	3312
SPEC	EA	2	TEMPORARY BARRICADE	2	-
<b>STORM</b>					
604	EA	2	DOUBLE CURB & GUTTER INLET, AA-S125A	-	2
604	EA	12	CURB & GUTTER INLET, AA-S125A	9	3
604	EA	1	ODOT CB-3A	-	1
604	EA	9	CATCH BASIN, STANDARD AA-S133A	5	4
604	EA	1	CATCH BASIN, STANDARD AA-S134A W/6" WINDOW	1	-
604	EA	6	MANHOLE TYPE C, AA-S102	4	2
901	LF	1613	12" STORM PIPE, 706.02 W/ TYPE 1 BEDDING	855	758
901	LF	360	15" STORM PIPE, 706.02 W/ TYPE 1 BEDDING	219	141
901	LF	1171	18" STORM PIPE, 706.02 W/ TYPE 1 BEDDING	1006	165
<b>WATER</b>					
801	LF	272	6" WATER PIPE & FITTINGS	258	24
801	LF	2347	8" WATER PIPE & FITTINGS	1072	1275
802	EA	9	6" VALVE & APPURTENANCES	5	4
805	EA	14	3/4" WATER SERVICE TAP (COMPLETE) SHORT	3	11
805	EA	35	3/4" WATER SERVICE TAP (COMPLETE) LONG	16	19
809	EA	8	FIRE HYDRANT, TYPE B W/ STANDARD VALVE BOX	4	4
809	EA	1	FIRE HYDRANT RELOCATION	1	-
SPEC	LUMP	2	SURVEY COORDINATES AND WATER LINE AS-BUILTS	1	1
<b>EROSION CONTROL</b>					
207	EA	25	INLET PROTECTION	16	9
207	LF	2270	SILT FENCE	989	1281
207	SY	97050	TEMPORARY SEEDING	47266	49784
<b>SIGNAGE</b>					
630	SQ FT	19	SIGN, FLAT SHEET	19	-
630	LF	39	GROUND MOUNTED SUPPORT	39	-
630	EA	3	STREET NAME SIGN	3	-
630	LF	36	STREET NAME SIGN SUPPORT	36	-

\* ODOT CMS, 2013 EDITION



- AGGREGATE BASE STREETS**
- ① 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 PG 64-22, MEDIUM TRAFFIC, ITEM 448
  - ② 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2 PG 64-22, MEDIUM TRAFFIC, ITEM 448
  - ③ 3" BITUMINOUS AGGREGATE BASE, ITEM 301
  - ④ 6" AGGREGATE BASE, ITEM 304
- ALTERNATE SECTION \***
- ① 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 PG 64-22, MEDIUM TRAFFIC, ITEM 448
  - ② 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2 PG 64-22, MEDIUM TRAFFIC, ITEM 448
  - ③ 6" BITUMINOUS AGGREGATE BASE, ITEM 301 (2" LIFTS)
- \* NEED WRITTEN APPROVAL FROM THE CITY ENGINEER

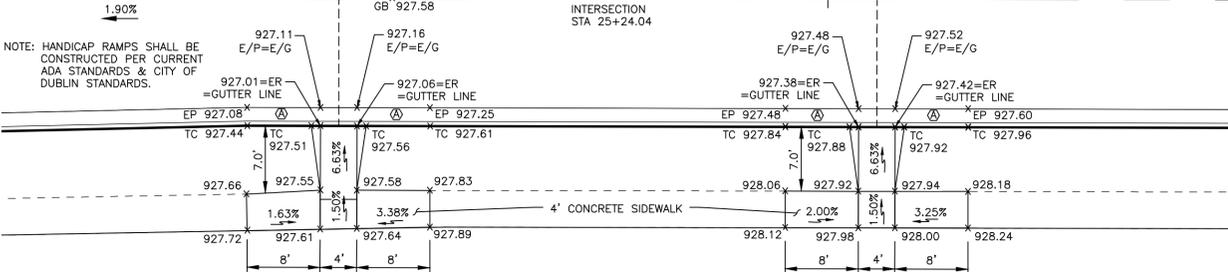
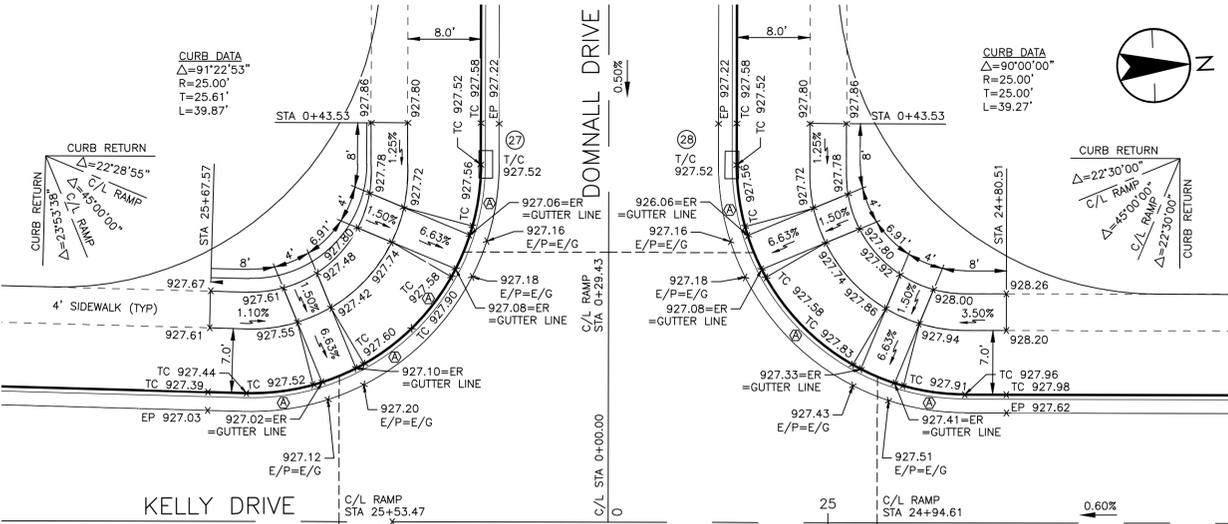
CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10

**QUANTITIES &  
TYPICAL SECTIONS**

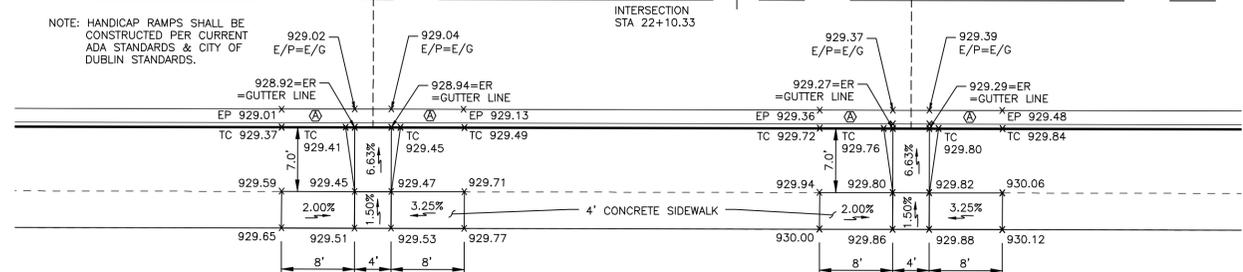
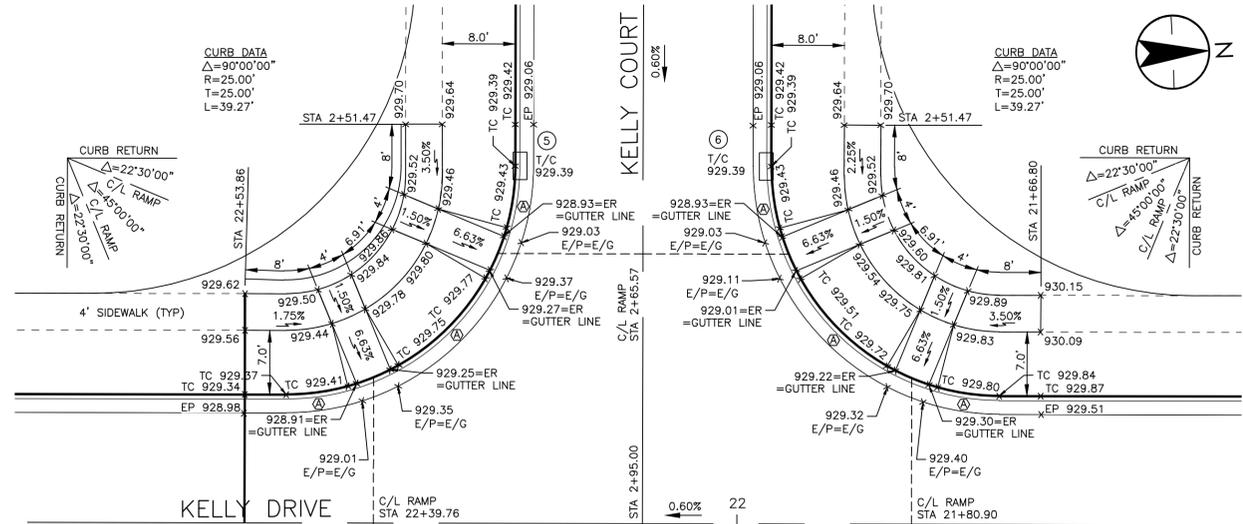
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(614) 486-4383 1-800-340-2743 FAX (614)-486-4387

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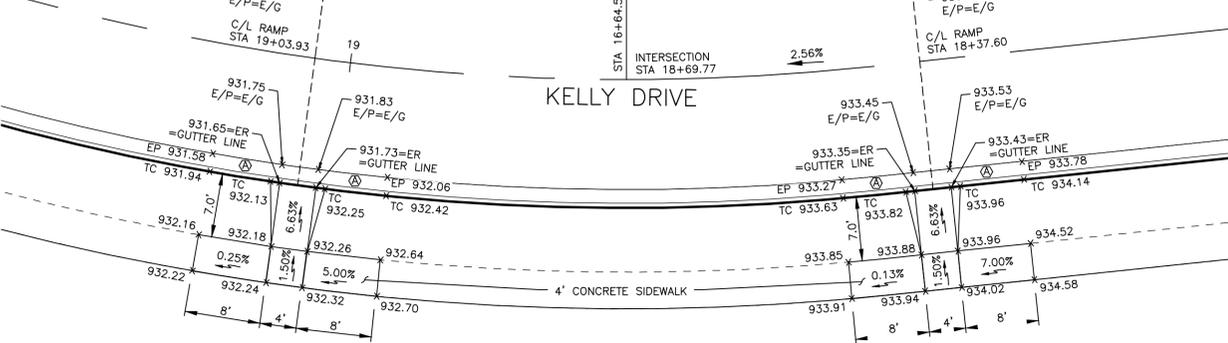
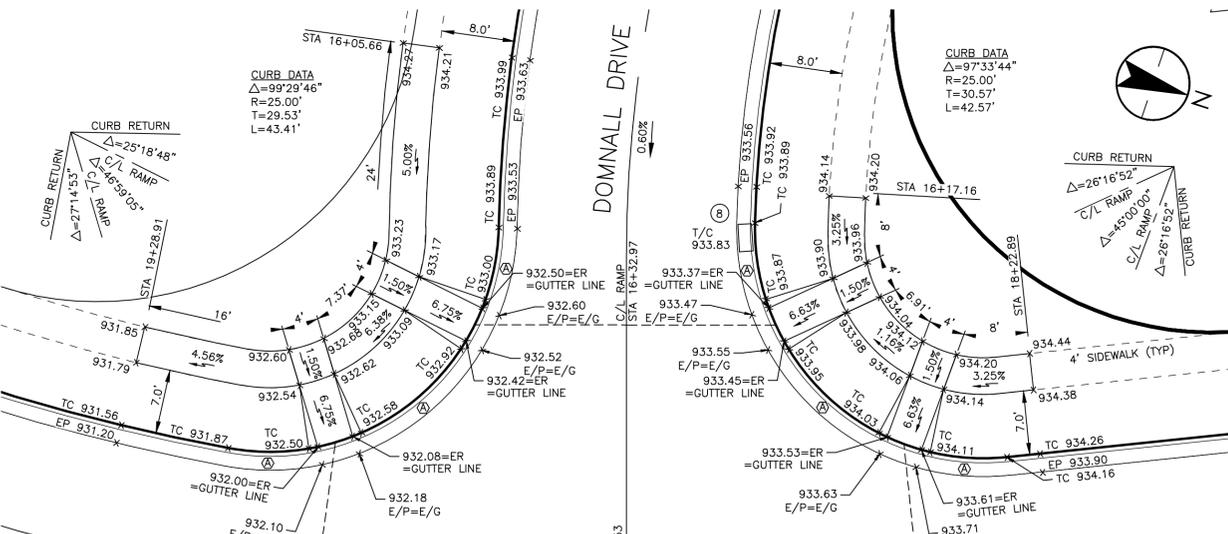
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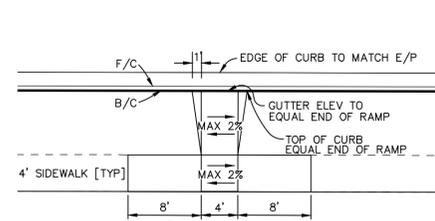
INTERSECTION DETAIL  
KELLY DRIVE & DOMNALL DRIVE  
SCALE: 1"=10'



INTERSECTION DETAIL  
KELLY DRIVE & KELLY COURT  
SCALE: 1"=10'



INTERSECTION DETAIL  
KELLY DRIVE & DOMNALL DRIVE  
SCALE: 1"=10'



SCALE: 1" = 10'  
TYPICAL CURB RAMP DETAIL

**LEGEND**

- TC = TOP OF CURB
- T/C = TOP OF CASTING
- C/L = CENTER LINE OF ROAD
- E/P = EDGE OF PAVEMENT
- ER = GUTTER LINE
- E/G = EDGE OF GUTTER
- [Symbol] = CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- [Symbol] = SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION
- [Symbol] = TRANSITION GUTTER PER STD. DWG. RD-03
- [Symbol] = RIGHT-OF-WAY

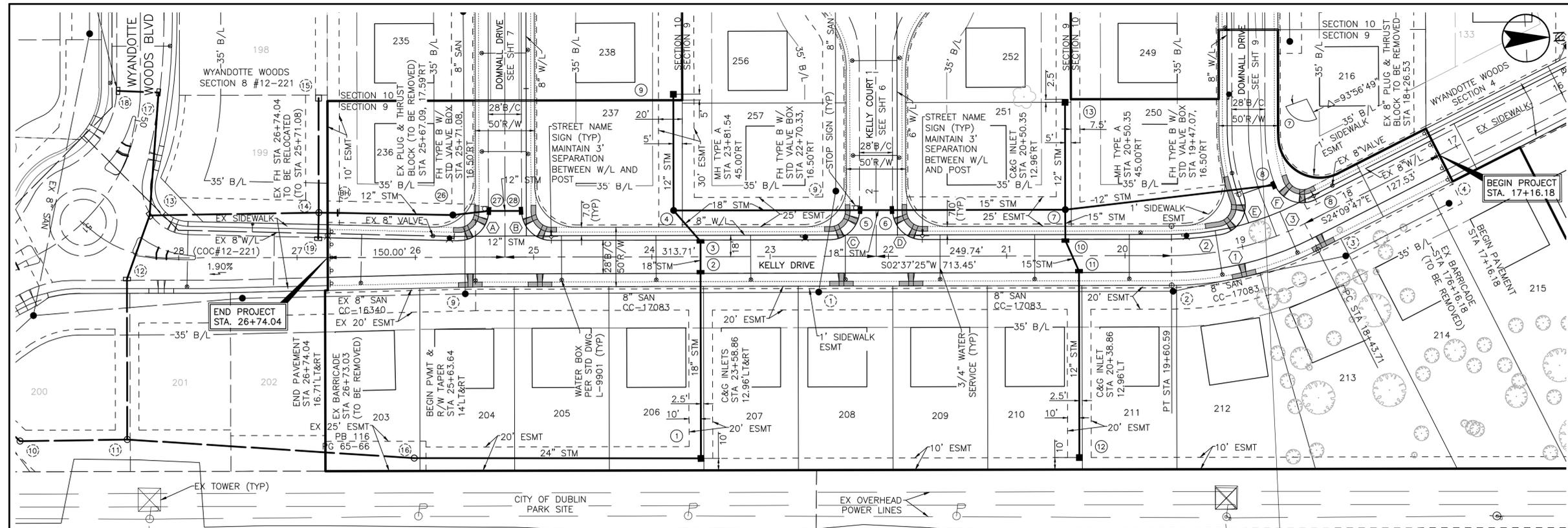
CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**INTERSECTION DETAILS**

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NOTE: HANDICAP RAMPS SHALL BE CONSTRUCTED PER CURRENT ADA STANDARDS & CITY OF DUBLIN STANDARDS.



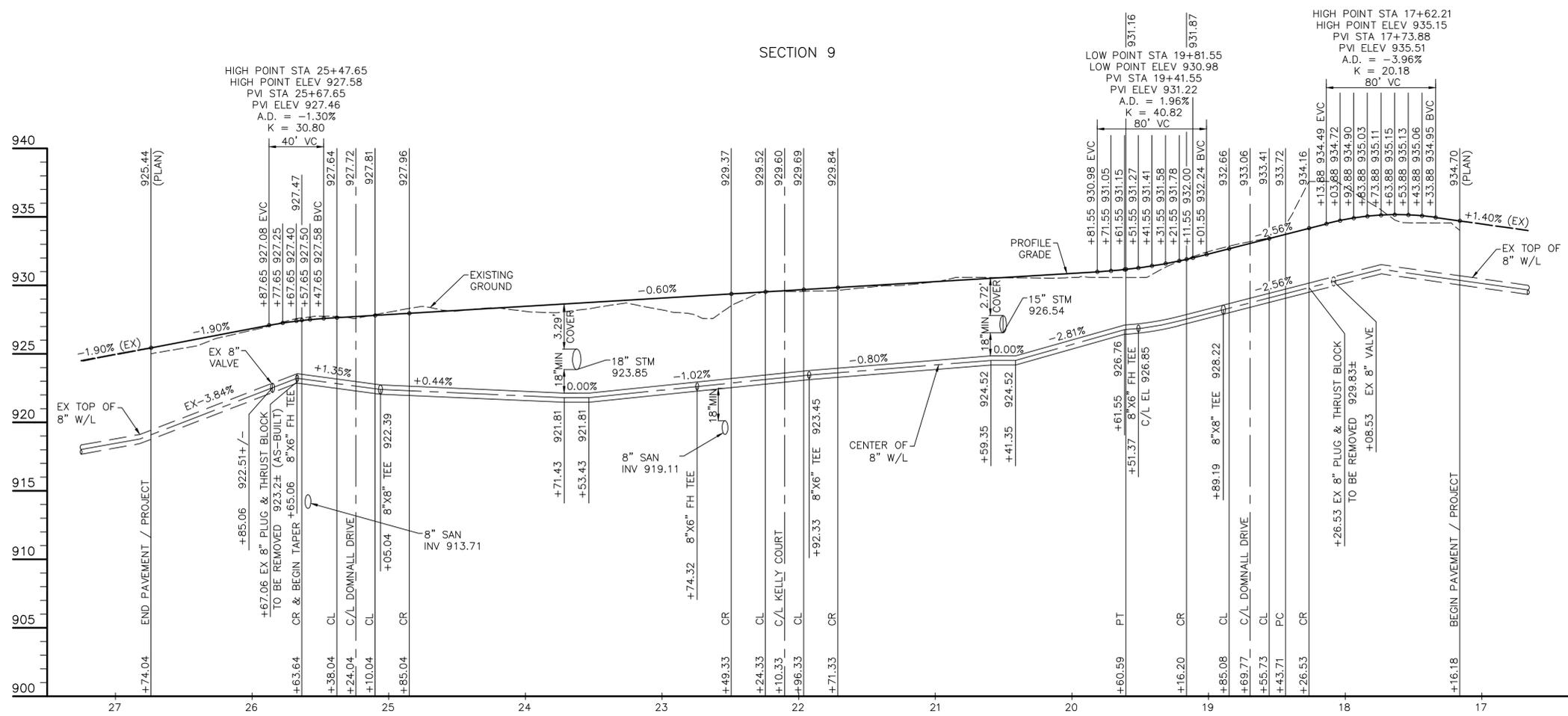
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Δ=26'47'12"  
R=250.00'  
T=59.53'  
L=116.88'
- ② C/L DATA  
Δ=20'48'53"  
R=250.00'  
T=45.92'  
L=90.82'
- ③ C/L DATA  
Δ=05'58'19"  
R=250.00'  
T=13.04'  
L=26.06'
- A F/C DATA  
Δ=91'22'53"  
R=25.50'  
T=26.13'  
L=40.67'
- B F/C DATA  
Δ=90'00'00"  
R=25.50'  
T=25.50'  
L=40.06'
- C F/C DATA  
Δ=90'00'00"  
R=25.50'  
T=25.50'  
L=40.06'
- D F/C DATA  
Δ=90'00'00"  
R=25.50'  
T=30.12'  
L=44.28'
- E F/C DATA  
Δ=97'29'46"  
R=25.50'  
T=29.11'  
L=43.42'
- F F/C DATA  
Δ=97'33'44"  
R=25.50'  
T=29.11'  
L=43.42'

**LEGEND**

- PG = PROFILE GRADE / TOP OF CURB
- F/L = FLOW LINE / GUTTER ELEVATION
- TP = TOP OF PAVEMENT
- TC = TOP OF CASTING
- F/C = FACE OF CURB
- C/L = CENTER LINE OF ROAD
- R/W = RIGHT-OF-WAY
- HP = HIGH POINT
- LP = LOW POINT
- EX STORM
- EX SAN
- EX WATERLINE
- PR STORM
- PR WATERLINE
- PR SAN
- EASEMENT
- CURB INLET
- CATCH BASIN
- MANHOLE
- CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION

KELLY DRIVE  
SCALE: 1" = 50'

SECTION 9



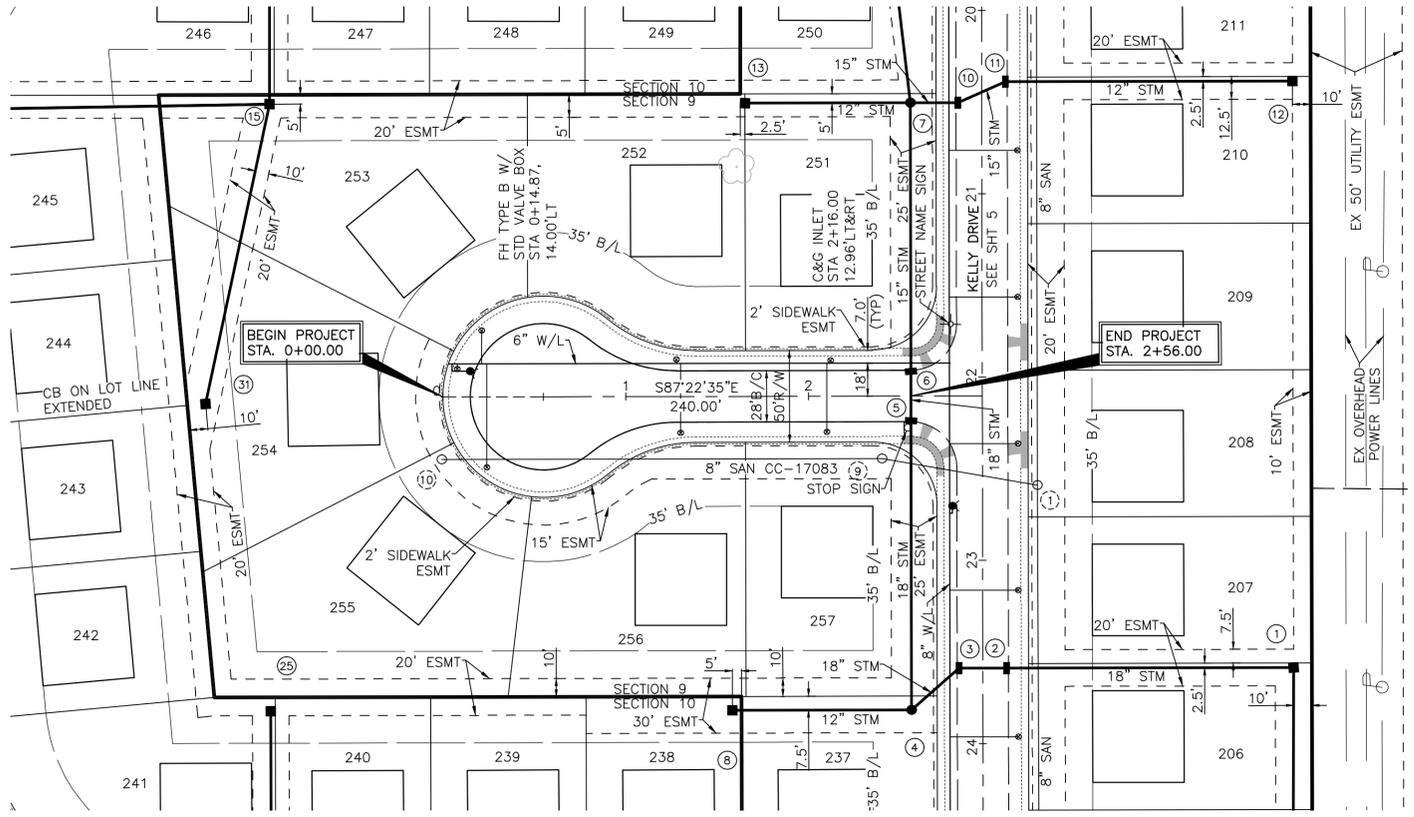
KELLY DRIVE				
ITEM	STA.	NORTHING	EASTING	C/L ELEV.
CONNECT TO EX 8"W/L	18+27			
BEGIN HORIZ DEFLECTION	18+44			
3/4" WATER SERVICE LOT 213	18+59			
8"x8" TEE	18+89			
3/4" WATER SERVICE LOT 212	19+21			
FIRE HYDRANT	19+47			
6" VALVE	19+49			
6"~90" BEND	19+51			
8"x6" FH TEE	19+51			
END HORIZ DEFLECTION	19+61			
3/4" WATER SERVICE LOT 250	19+86			
3/4" WATER SERVICE LOT 211	19+96			
VERTICAL DEFLECTION	20+41			
VERTICAL DEFLECTION	20+59			
3/4" WATER SERVICE LOT 210	20+76			
3/4" WATER SERVICE LOT 209	21+56			
8"x6" TEE	21+92			
3/4" WATER SERVICE LOT 208	22+36			
FIRE HYDRANT	22+70			
6" VALVE	22+72			
6"~90" BEND	22+74			
8"x6" FH TEE	22+74			
3/4" WATER SERVICE LOT 207	23+16			
VERTICAL DEFLECTION	20+53			
VERTICAL DEFLECTION	20+71			
3/4" WATER SERVICE LOT 206	23+96			
3/4" WATER SERVICE LOT 205	24+76			
8"x8" TEE	25+06			
3/4" WATER SERVICE LOT 204	25+49			
8"x6" FH TEE	25+65			
6"~90" BEND	25+65			
CONNECT TO EX 8"W/L	25+67			
6" VALVE	25+69			
FIRE HYDRANT	25+71			
FIRE HYDRANT TO BE RELOCATED	26+74			

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

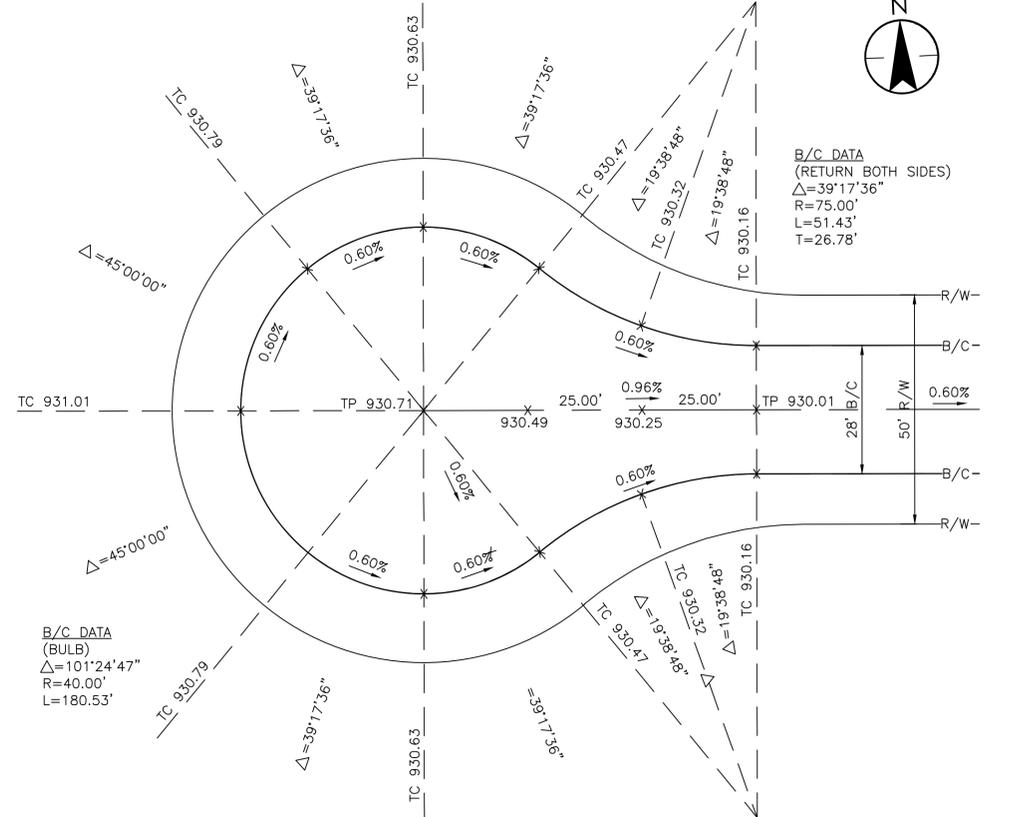
CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**KELLY DRIVE**  
FROM STA 17+16.17 TO STA 26+74.04

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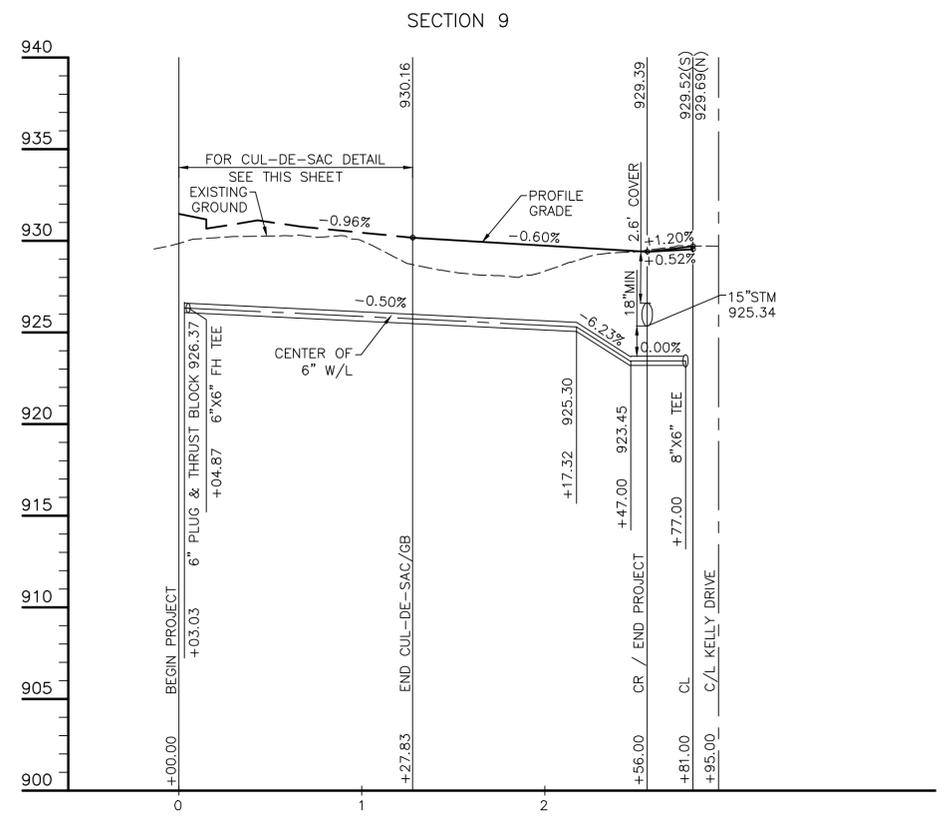
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CHECKED:		



KELLY COURT  
SCALE: 1" = 50'



CUL-DE-SAC DETAIL  
KELLY COURT  
SCALE: 1" = 20'



SECTION 9  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

**LEGEND**

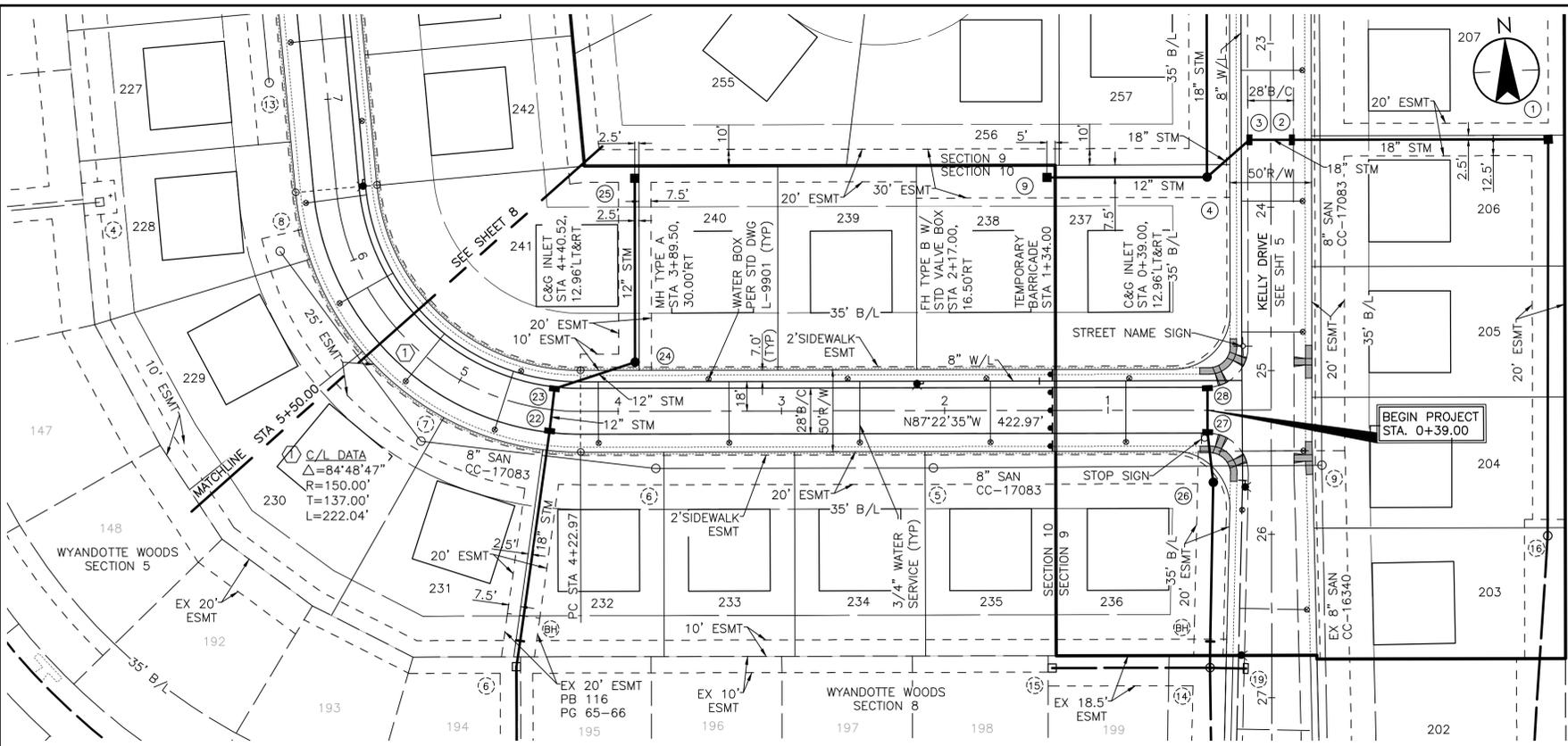
- PG = PROFILE GRADE / TOP OF CURB
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- TC = TOP OF CASTING
- F/C = FACE OF CURB
- C/L = CENTER LINE OF ROAD
- R/W = RIGHT-OF-WAY
- HP = HIGH POINT
- LP = LOW POINT
- EX STORM = EXISTING STORM SEWER
- EX SAN = EXISTING SANITARY SEWER
- EX WATERLINE = EXISTING WATERLINE
- PR STORM = PROPOSED STORM SEWER
- PR WATERLINE = PROPOSED WATERLINE
- PR SAN = PROPOSED SANITARY SEWER
- EASEMENT = EASEMENT
- CURB INLET = CURB INLET
- CATCH BASIN = CATCH BASIN
- MANHOLE = MANHOLE
- CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION

KELLY COURT		AS-BUILT		
ITEM	STA	NORTHING	EASTING	C/L ELEV.
6" PLUG AND THRUST BLOCK	0+03			
6"x6" TEE	0+05			
6"~90° BEND	0+05			
6" VALVE	0+07			
3/4" WATER SERVICE LOT 254	0+09			
FIRE HYDRANT	0+14			
3/4" WATER SERVICE LOT 253	0+22			
3/4" WATER SERVICE LOT 255	0+24			
3/4" WATER SERVICE LOT 252	1+28			
3/4" WATER SERVICE LOT 256	1+30			
3/4" WATER SERVICE LOT 257	2+10			
3/4" WATER SERVICE LOT 251	2+12			
VERTICAL DEFLECTION	2+17			
VERTICAL DEFLECTION	2+47			
8"x6" TEE	2+77			

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**KELLY COURT**  
FROM STA 0+00.00 TO STA 2+56.00

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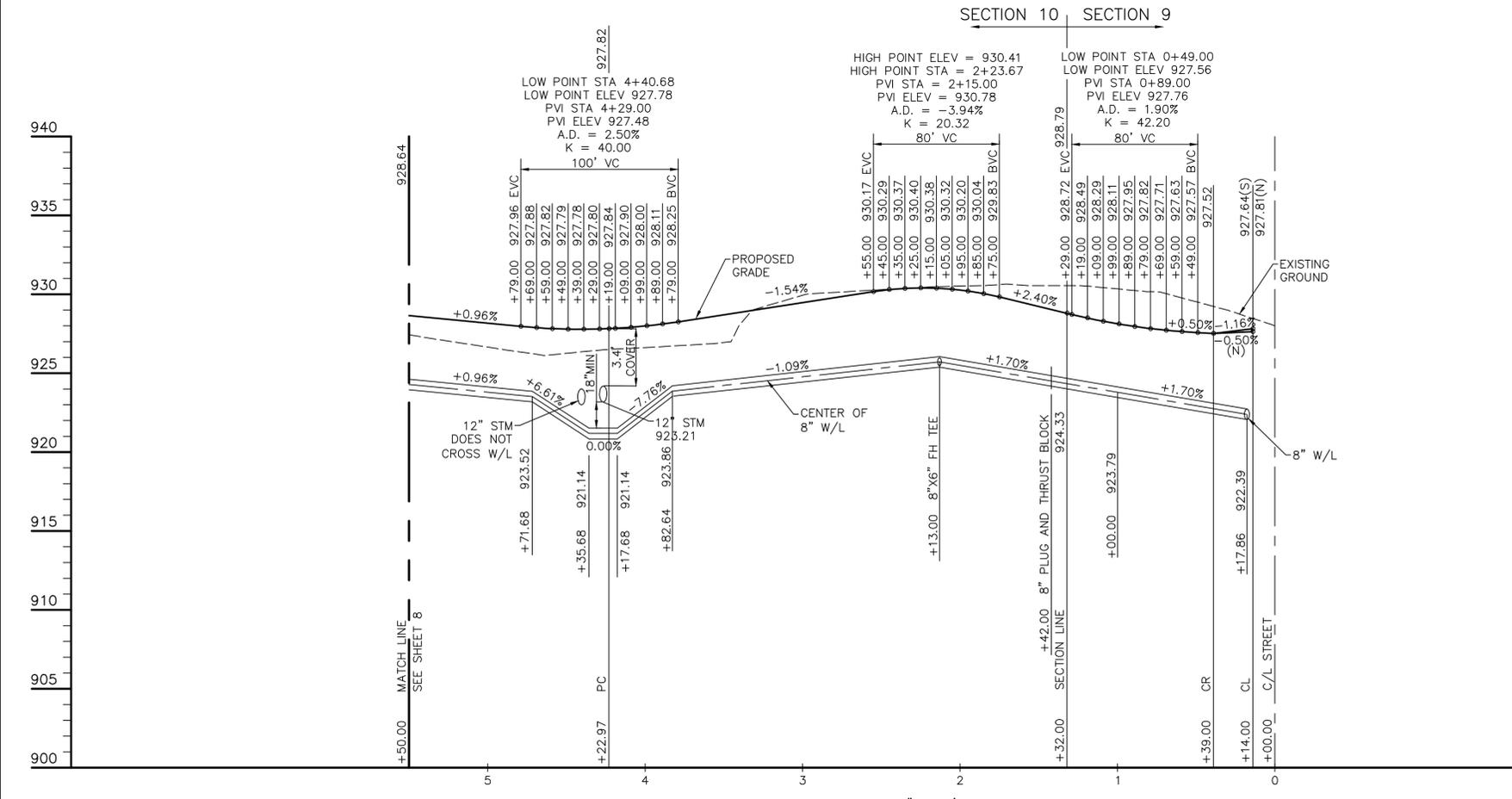
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**LEGEND**

- PG = PROFILE GRADE / TOP OF CURB
- F/L = FLOW LINE / GUTTER ELEVATION
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- F/C = FACE OF CURB
- C/L = CENTER LINE OF ROAD
- R/W = RIGHT-OF-WAY
- HP = HIGH POINT
- LP = LOW POINT
- EX STORM
- EX SAN
- EX WATERLINE
- PR STORM
- PR WATERLINE
- PR SAN
- EASEMENT
- CURB INLET
- CATCH BASIN
- MANHOLE
- CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION

DOMNALL DRIVE  
SCALE: 1" = 50'



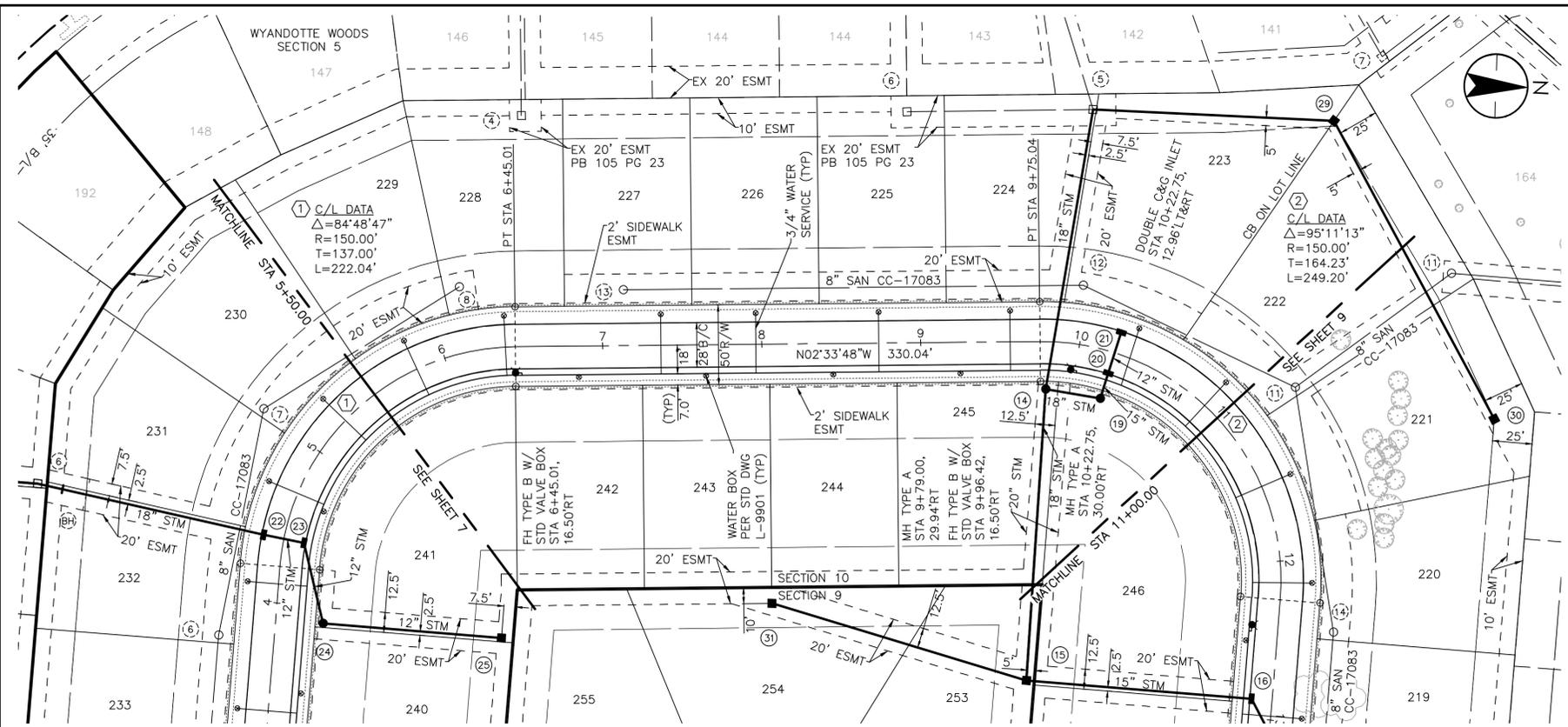
**DOMNALL DRIVE**

ITEM	STA.	NORTHING	EASTING	C/L ELEV.
8"x8" TEE	0+18			
3/4" WATER SERVICE LOT 237	0+87			
3/4" WATER SERVICE LOT 236	0+89			
8" PLUG AND THRUST BLOCK	1+42			
3/4" WATER SERVICE LOT 235	1+70			
3/4" WATER SERVICE LOT 238	1+75			
8"x6" FH TEE	2+13			
6"-90° BEND	2+13			
6" VALVE	2+15			
FH TYPE B	2+17			
3/4" WATER SERVICE LOT 234	2+52			
3/4" WATER SERVICE 239	2+60			
3/4" WATER SERVICE LOT 233	3+32			
3/4" WATER SERVICE LOT 240	3+45			
VERTICAL DEFLECTION	3+83			
3/4" WATER SERVICE LOT 232	4+12			
VERTICAL DEFLECTION	4+17			
HORIZ DEFLECTION	4+23			
VERTICAL DEFLECTION	4+35			
3/4" WATER SERVICE LOT 241	4+66			
3/4" WATER SERVICE LOT 231	4+70			
VERTICAL DEFLECTION	4+72			
3/4" WATER SERVICE LOT 230	5+26			

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**DOMNALL DRIVE**  
FROM STA 0+00.00 TO STA 5+50.00

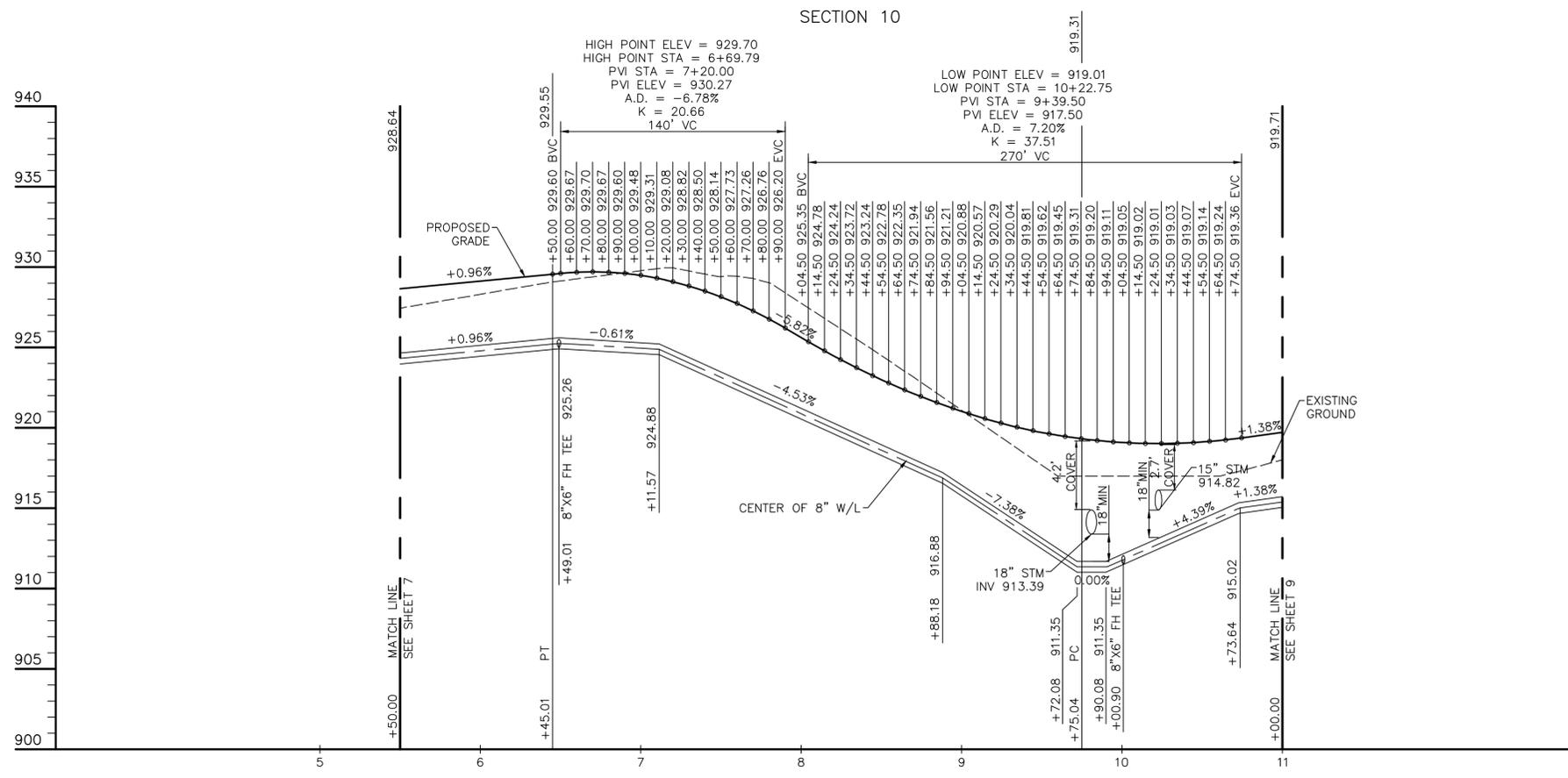
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DOMNALL DRIVE  
SCALE: 1" = 50'

DOMNALL DRIVE		AS-BUILT			
ITEM	STA.	NORTHING	EASTING	C/L ELEV.	
3/4" WATER SERVICE LOT 229	5+81				
3/4" WATER SERVICE LOT 228	6+39				
HORIZ DEFLECTION	6+45				
FH TYPE B	6+45				
6" VALVE	6+47				
6"~90° BEND	6+49				
8"X6" FH TEE	6+49				
3/4" WATER SERVICE LOT 242	6+85				
VERTICAL DEFLECTION	7+11				
3/4" WATER SERVICE LOT 227	7+37				
3/4" WATER SERVICE LOT 243	7+65				
3/4" WATER SERVICE LOT 226	7+96				
3/4" WATER SERVICE LOT 244	8+45				
3/4" WATER SERVICE LOT 225	8+74				
VERTICAL DEFLECTION	8+88				
3/4" WATER SERVICE LOT 245	9+25				
3/4" WATER SERVICE LOT 224	9+56				
VERTICAL DEFLECTION	9+72				
HORIZ DEFLECTION	9+75				
VERTICAL DEFLECTION	9+90				
FH TYPE B	9+96				
6" VALVE	9+98				
8"X6" FH TEE	10+00				
6"~90° BEND	10+00				
3/4" WATER SERVICE LOT 223	10+34				
VERTICAL DEFLECTION	10+74				
3/4" WATER SERVICE LOT 222	10+89				



SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

**LEGEND**

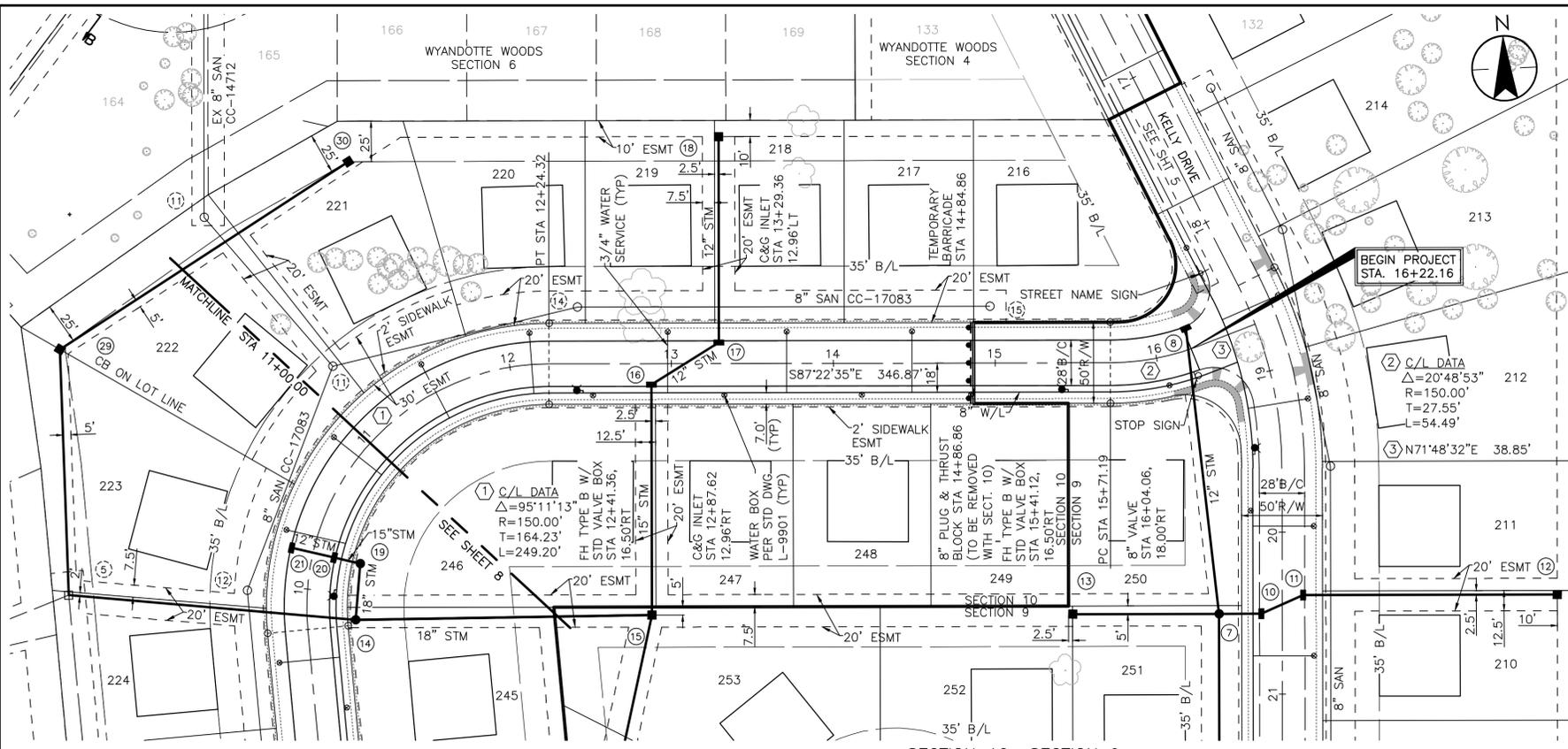
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- R/W = RIGHT-OF-WAY
- HP = HIGH POINT
- LP = LOW POINT
- EX STORM = EX STORM
- EX SAN = EX SAN
- EX WATERLINE = EX WATERLINE
- PR STORM = PR STORM
- PR WATERLINE = PR WATERLINE
- PR SAN = PR SAN
- EASEMENT = EASEMENT
- CURB INLET = CURB INLET
- CATCH BASIN = CATCH BASIN
- MANHOLE = MANHOLE
- CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**DOMNALL DRIVE**  
FROM STA 5+50.00 TO STA 11+00.00

PREPARED BY:  
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(614) 486-4383 1-800-340-2743 FAX (614)-486-4387

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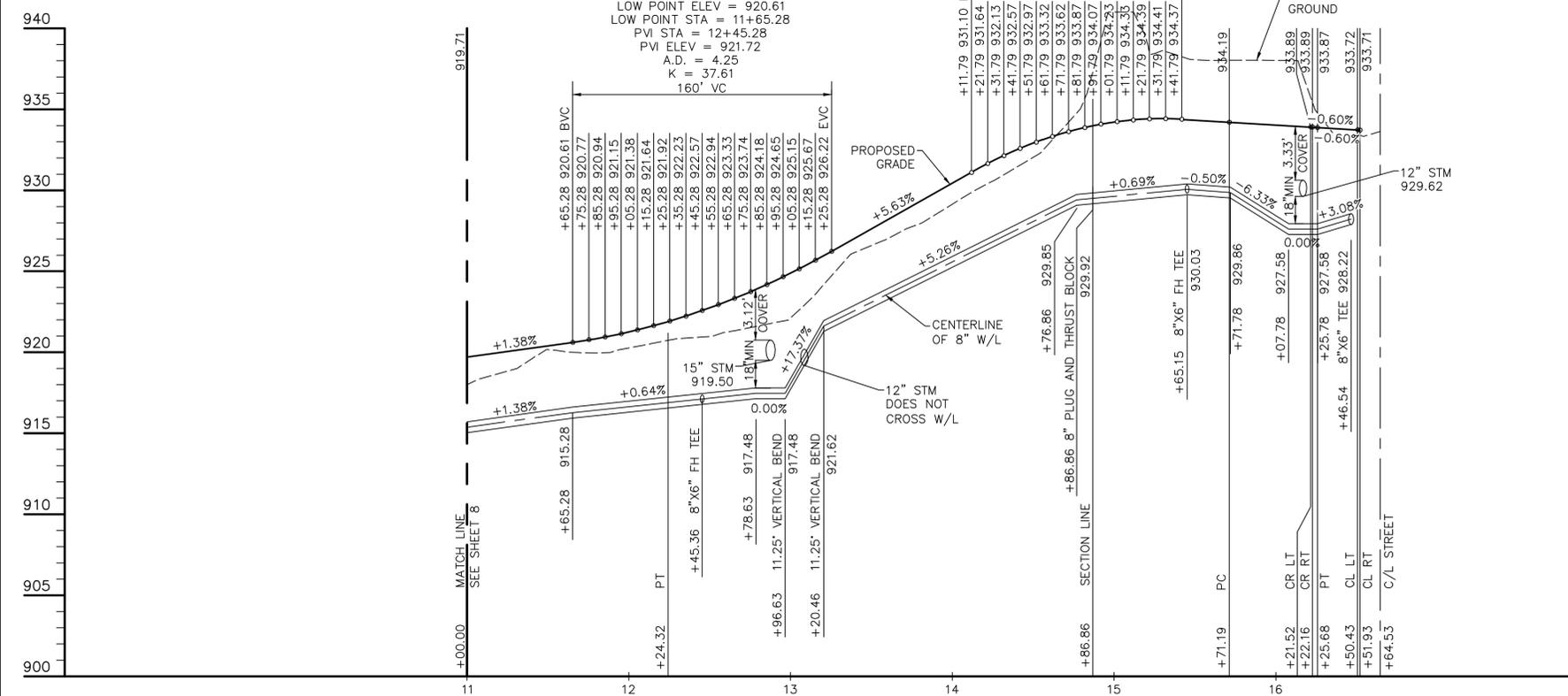
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SECTION 10 SECTION 9

HIGH POINT ELEV = 934.41  
 HIGH POINT STA = 15+29.30  
 PVI STA = 14+76.79  
 PVI ELEV = 934.76  
 A.D. = -6.23%  
 K = 20.86

LOW POINT ELEV = 920.61  
 LOW POINT STA = 11+65.28  
 PVI STA = 12+45.28  
 PVI ELEV = 921.72  
 A.D. = 4.25  
 K = 37.61



SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

DOMNALL DRIVE		AS-BUILT		C/L ELEV.
ITEM	STA.	NORTHING	EASTING	
3/4" WATER SERVICE LOT 221	11+51			
VERTICAL DEFLECTION	11+65			
3/4" WATER SERVICE LOT 220	12+14			
HORIZ DEFLECTION	12+24			
FH TYPE B	12+41			
6" VALVE	12+43			
6"~90° BEND	12+45			
8"x6" FH TEE	12+45			
3/4" WATER SERVICE 246	12+51			
VERTICAL DEFLECTION	12+78			
11.25° VERTICAL BEND	12+96			
3/4" WATER SERVICE LOT 219	12+98			
11.25° VERTICAL BEND	13+21			
3/4" WATER SERVICE 247	13+33			
3/4" WATER SERVICE 218	13+71			
FH TYPE B	13+75			
6" VALVE	13+77			
3/4" WATER SERVICE 248	14+18			
3/4" WATER SERVICE LOT 217	14+49			
VERTICAL DEFLECTION	14+77			
8" PLUG AND THRUST BLOCK	14+87			
3/4" WATER SERVICE	15+03			
FH TYPE B	15+49			
6" VALVE	15+62			
6"~90° BEND	15+62			
8"x6" TEE/VERTICAL DEFLECTION	15+65			
HORIZ/VERTICAL DEFLECTION	15+71			
8" VALVE	16+04			
VERTICAL DEFLECTION	16+08			
HORIZ/VERTICAL DEFLECTION	16+26			
8"x6" TEE	16+46			

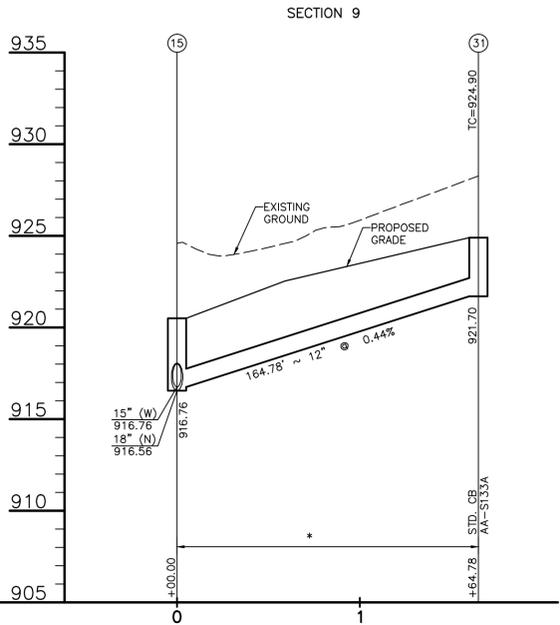
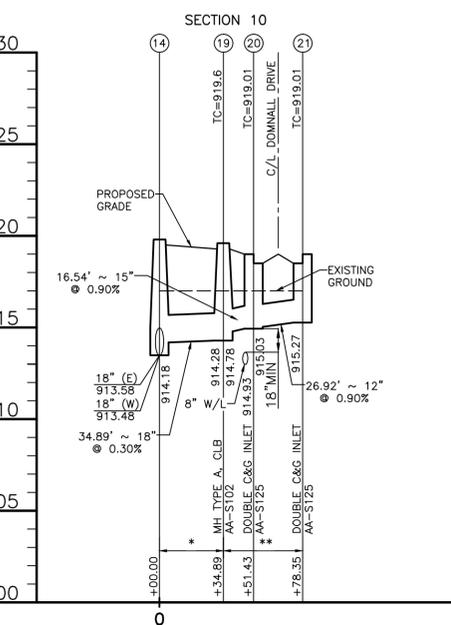
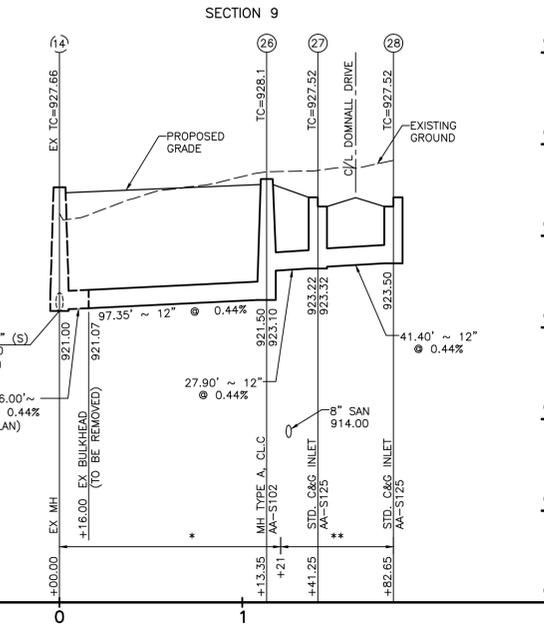
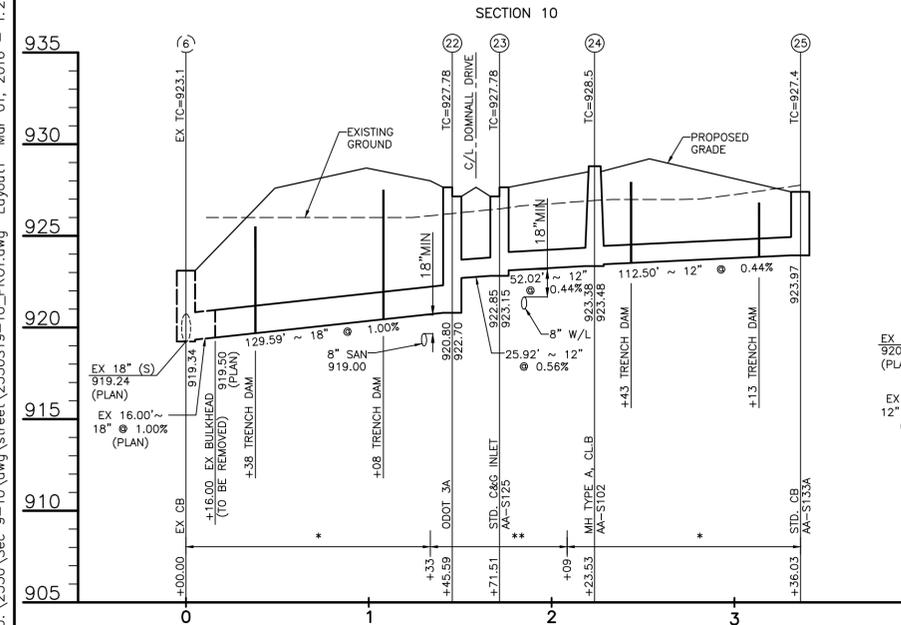
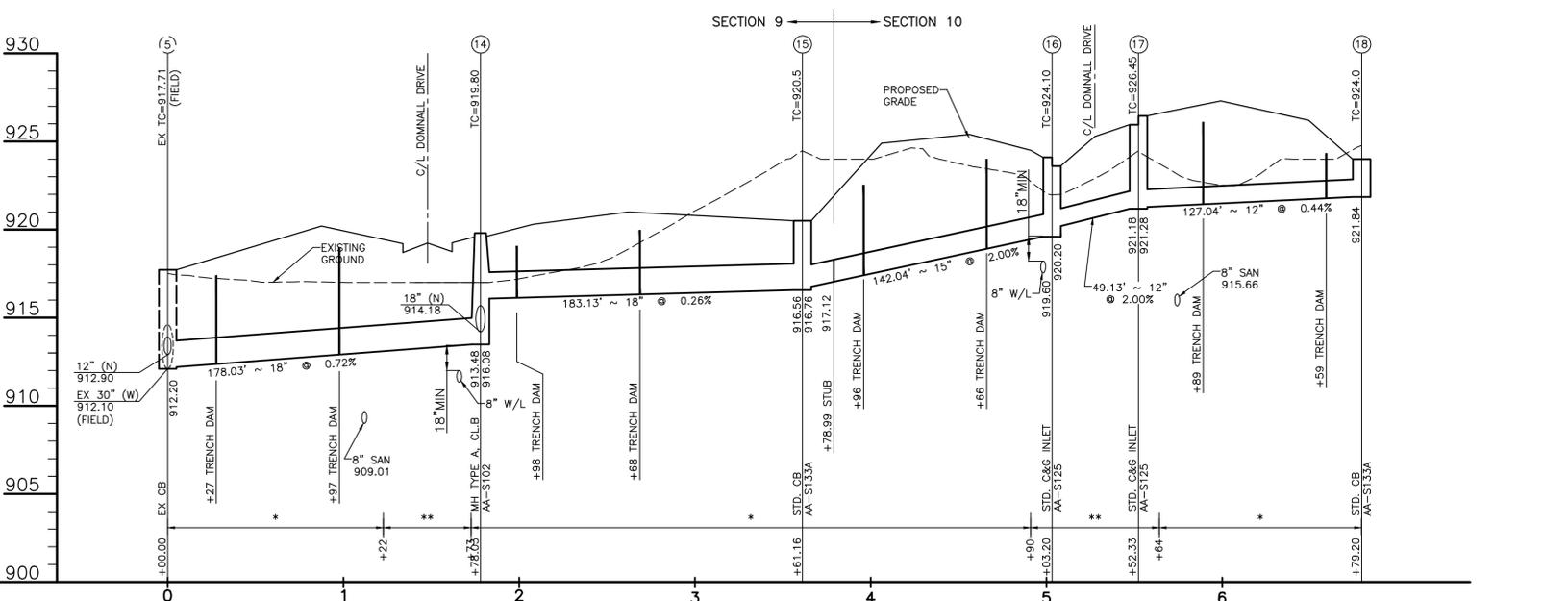
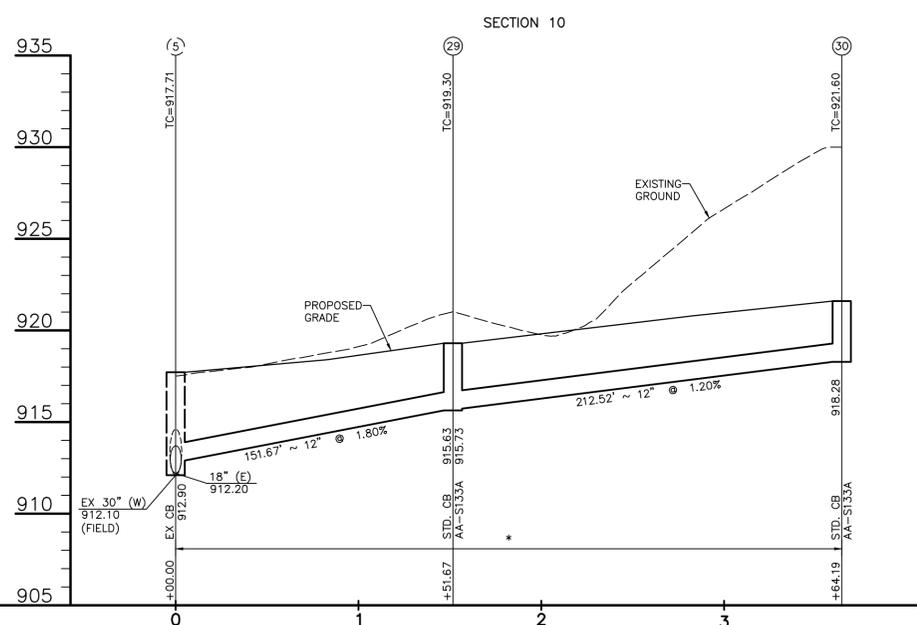
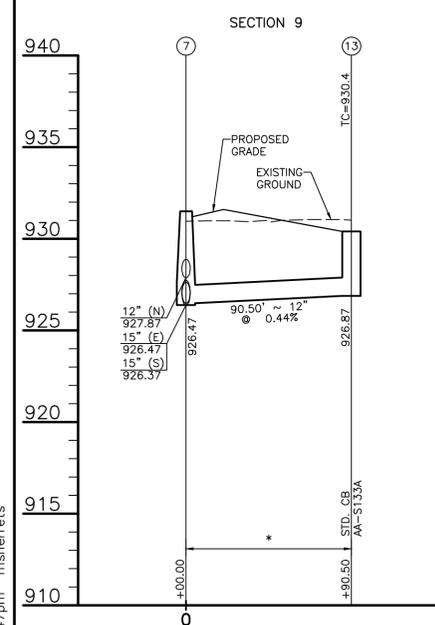
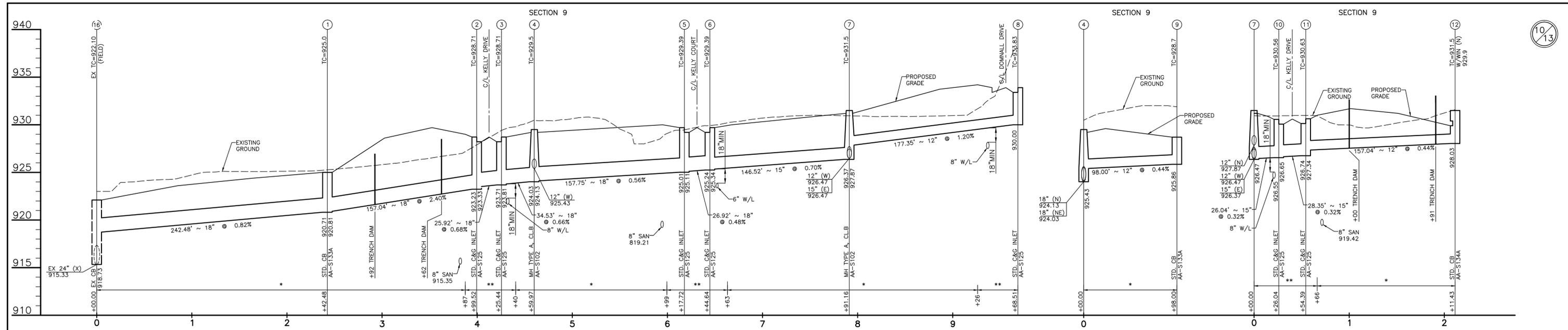
**LEGEND**

- PG = PROFILE GRADE / TOP OF CURB
- F/L = FLOW LINE / GUTTER ELEVATION
- TP = TOP OF PAVEMENT
- TC = TOP OF CASTING
- F/C = FACE OF CURB
- C/L = CENTER LINE OF ROAD
- R/W = RIGHT-OF-WAY
- HP = HIGH POINT
- LP = LOW POINT
- = EX STORM
- = EX SAN
- = EX WATERLINE
- = PR STORM
- = PR WATERLINE
- = PR SAN
- - - = EASEMENT
- = CURB INLET
- = CATCH BASIN
- = MANHOLE
- = CURB RAMP TO BE INSTALLED WITH ROADWAY CONSTRUCTION
- = SIDEWALK TO BE INSTALLED WITH HOME CONSTRUCTION

CITY OF DUBLIN, OHIO  
 STREET, STORM SEWER & WATER IMPROVEMENTS  
 FOR WYANDOTTE WOODS SECTION 9&10  
**DOMNALL DRIVE**  
 FROM STA 11+00.00 TO STA 16+22.16

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
 1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
 (614) 486-4383 1-800-340-2743 FAX (614)-486-4387

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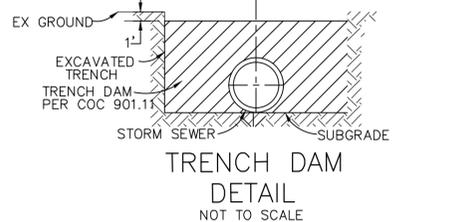


NOTE: NO STORM STRUCTURE SHALL BE CLOSER THAN 10' HORIZ. AND 1.5' VERTICALLY TO ANY SANITARY OR WATER MAINLINE OR STRUCTURE.

▲ LIMIT TRENCH WIDTH TO 48" PER AA-S150.

\* COMPACTED BACKFILL PER ITEM 911

\*\* COMPACTED GRANULAR BACKFILL PER ITEM 912



CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10

**STORM SEWER PROFILES**

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
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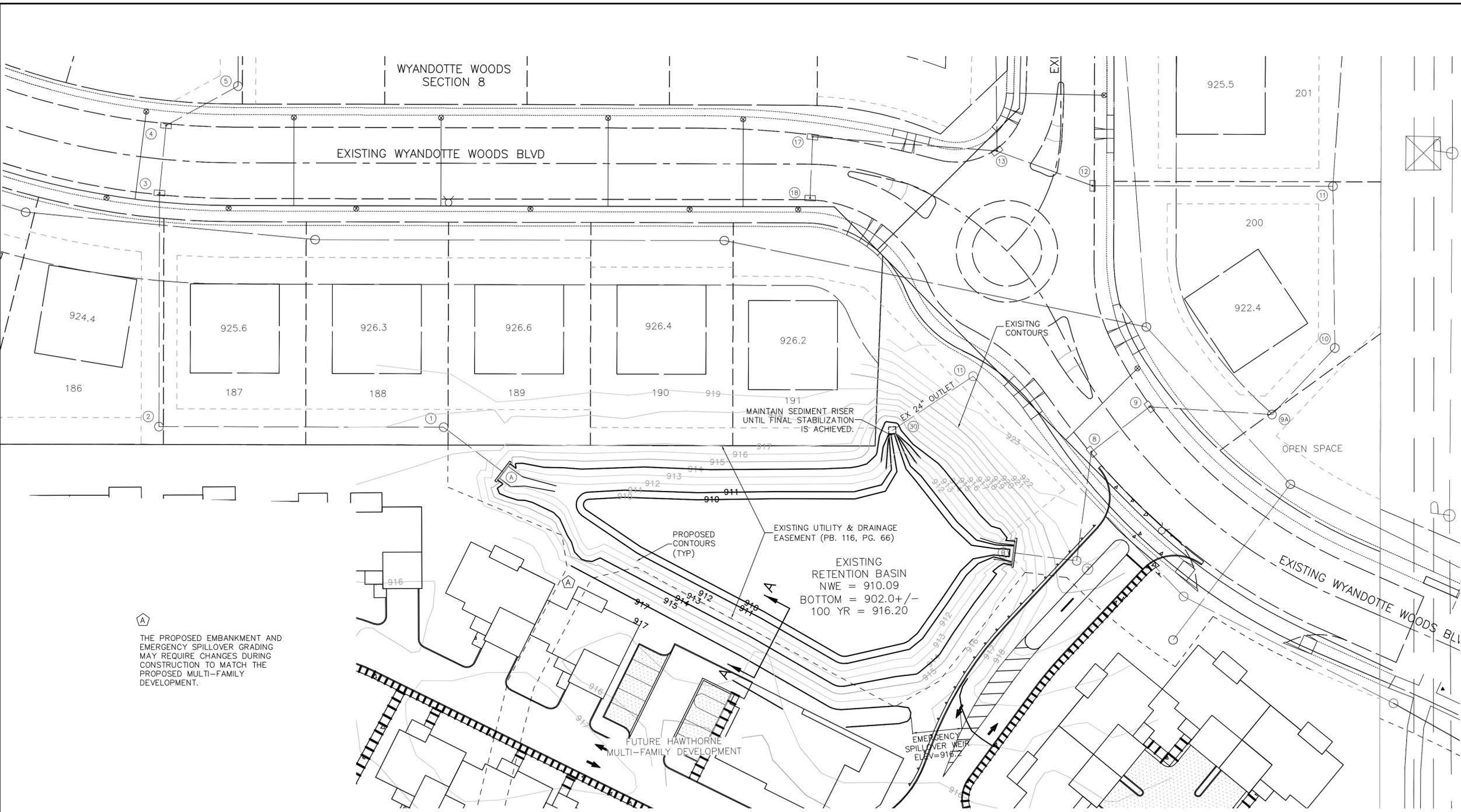
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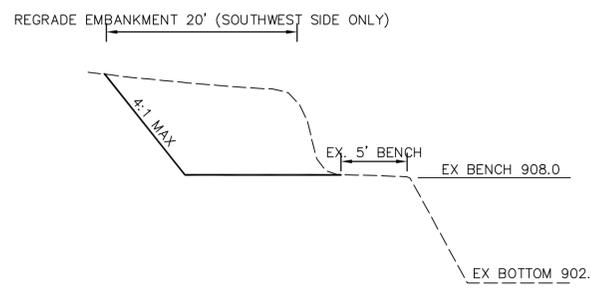


BASIN DETENTION DATA				
DESIGN STM (YR)	PONDING ELEVATION	STORAGE PROVIDED (AC-FT)	ALLOWABLE RELEASE (CFS)	ACTUAL RELEASE (CFS)
1	912.26	0.777	5.71	0.63
2	912.70	0.965	9.90	1.68
5	913.28	1.228	10.84	4.93
10	913.79	1.480	11.50	9.81
25	914.64	1.930	12.41	11.70
50	915.38	2.361	13.21	12.76
100	916.12	2.836	14.02	13.74

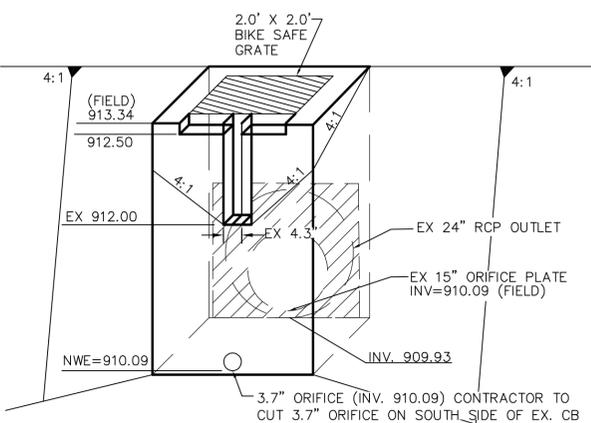
SEDIMENT STORAGE TABLE BASIN			
CONTOUR (FT)	AREA (SQ FT)	VOLUME (CU FT)	CUMULATIVE VOLUME (CU-YD)
912	14,101		
911.4	9,412	7,007	1,472
911	8,614	3,604	1,212
910	6,896	7,739	1,079
909	5,264	6,062	792
908	4,712	4,985	568
907	2,617	3,614	383
906	1,881	2,239	249
905	1,456	1,664	166
904	1,086	1,266	105
903	771	924	58
902	509	635	24
<b>TOTAL STORAGE =</b>		<b>39,739</b>	<b>1,472</b>
CONTRIBUTING RUNOFF AREA = 9.3 AC.			
SEDIMENT STORAGE VOLUME REQUIRED = 623.1 CY (BASED ON 67 CY/AC) STORAGE VOLUME PROVIDED: 1,472 CY			



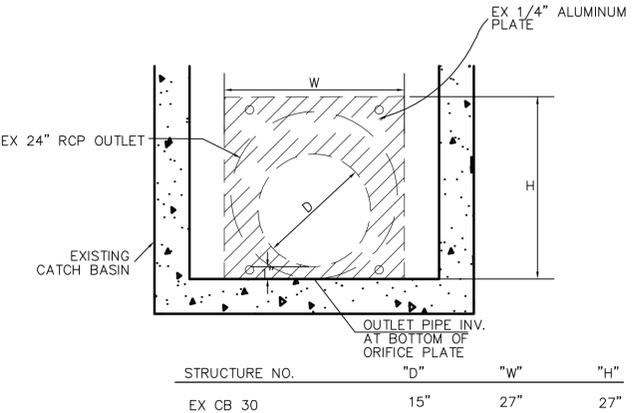
A  
THE PROPOSED EMBANKMENT AND EMERGENCY SPILLOVER GRADING MAY REQUIRE CHANGES DURING CONSTRUCTION TO MATCH THE PROPOSED MULTI-FAMILY DEVELOPMENT.



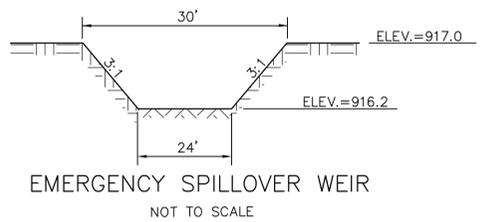
SECTION A-A  
NOT TO SCALE



DETAIL OF OUTLET MODIFICATION FOR EXISTING CB #30 (ODOT CB 2-3)



DETAIL OF EXISTING ORIFICE PLATE  
NOT TO SCALE



EMERGENCY SPILLOVER WEIR  
NOT TO SCALE

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**EXISTING BASIN  
MODIFICATION PLAN**

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
(614) 486-4383 1-800-340-2743 FAX (614)-486-4387

DESIGN:	ORDER NO.:	DATE:
DRAWN:		
CHECKED:		

**SITE DATA**

**OWNER/DEVELOPER:** HOMEWOOD CORPORATION  
2700 E. DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43231

**CONTACT:** JIM LIPNOS  
PHONE: (614) 989-7700

**PLAN DESIGNER:** STANTEC CONSULTING SERVICES INC.  
1500 LAKE SHORE DRIVE  
SUITE 100  
COLUMBUS, OHIO 43204

**DEVELOPMENT TYPE:** SINGLE-FAMILY SUBDIVISION

**SITE ACREAGE:** 20.06 AC.

**DISTURBED ACREAGE:** 20.06 AC.

**AVERAGE SLOPE:** EXISTING - 2%-5%  
PROPOSED - 0.6%-5%

**SITE VEGETATION:** EXISTING - WOODS AND OPEN FIELD

**ADJACENT AREAS:** THE WYANDOTTE WOODS SECTION 9-10 IS BOUNDED BY SECTION 4 & 6 TO THE NORTH, SECTION 5 TO THE WEST, CITY OF DUBLIN PARK SITE TO THE EAST, AND SECTION 8 TO THE SOUTH.

**STORM WATER MANAGEMENT:**  
THE STORM RUNOFF FOR THIS SITE IS DIRECTED TO A PROPOSED RETENTION BASIN THAT WAS CONSTRUCTED WYANDOTTE WOODS SECTION 8 DEVELOPMENT. THE BASIN WILL BE MODIFIED TO PROVIDE SUFFICIENT WATER QUALITY AND QUANTITY VOLUMES. BASIN MODIFICATIONS ARE SHOWN ON SHEET 12.

**SEQUENCE OF CONSTRUCTION**

- 1) INSTALL CONSTRUCTION ENTRANCE.
- 2) CLEAR & GRUB SITE.
- 3) INSTALL SILT FENCE AS INDICATED ON PLAN.
- 4) ROUGH GRADE SITE.
- 5) CONSTRUCT SANITARY, DISTURBING TRENCH AREA ONLY.
- 6) INSTALL STORM & W/L, PLACING INLET PROTECTION AS INLETS ARE CONSTRUCTED.
- 7) GRADE STREETS FIXING INLET PROTECTION AS NEEDED.
- 8) REMOVE CONSTRUCTION ROAD STABILIZATION.
- 9) PAVE STREETS.
- 10) GRADE LOTS TO PREGRADE ELEVATION.
- 11) SEED & MULCH ALL DISTURBED AREAS.
- 12) REMOVE ALL EROSION CONTROL DEVICES.

**GENERAL LAND CONSERVATION NOTES**

NO DISTURBED AREA WILL BE DENUDE FOR MORE THAN 7 DAYS IF IT IS TO REMAIN DORMANT FOR MORE THAN 21 DAYS UNLESS AUTHORIZED BY THE GOVERNING JURISDICTION'S INSPECTOR. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING FOR ALL SITES.

ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER BACKFILL IF INSTALLATION IS THROUGH STABILIZED AREAS. NO MORE THAN 500 FEET OF TRENCH WILL BE OPEN AT ANY ONE TIME.

ELECTRIC POWER, TELEPHONE, CATV AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL, IF INSTALLATION IS THROUGH STABILIZED AREAS.

ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING. STRAW, HAY MULCH OR EQUIVALENT IS REQUIRED.

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION) WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES.

ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING OR BUILT UPON BY NOVEMBER 1ST OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED BY APRIL 15TH.

AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDE AREAS SHALL BE STABILIZED.

**SEEDING & MULCHING**

**GENERAL:**  
THE SEEDING, EITHER PERMANENT OR TEMPORARY, SHALL COMMENCE WITHIN 14 DAYS AFTER THE STREET AND LOT GRADING IS COMPLETED.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO ACCOMPLISH BOTH TEMPORARY AND PERMANENT SEEDING.

ALL DITCHES, DIVERSIONS, SEDIMENT BASINS/TRAPS, RIGHT-OF-WAY AREAS, AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED, OR SODDED.

THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN ON THE PLAN. SEEDING HAS BEEN ASSUMED TO A DISTANCE OF 5 FEET OUTSIDE THE WORK LIMITS OR RIGHT-OF-WAY, WHICHEVER IS GREATER. ALL AREAS NOT DESIGNATED TO BE SODDED SHALL REMAIN UNDER EXISTING GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

PAYMENT FOR TEMPORARY SEEDING SHALL BE INCLUDED UNDER "EROSION CONTROL".

OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THEY ARE ORDERED REMOVED BY THE ENGINEER OR AS DIRECTED BY THE SEQUENCE OF CONSTRUCTION.

**MATERIALS:**

PERMANENT SEEDING:			
KIND OF SEED	SEEDING DATES	PER 1000 SQ. FT.	PER ACRE
a) CREEPING RED FESCUE plus DOMESTIC RYE GRASS plus KENTUCKY BLUEGRASS	MARCH - MAY AUG. - SEPT.	1/2 lb. 1/4 lb. 1/4 lb.	20 LBS. 10 LBS. 10 LBS.
b) TALL FESCUE	MARCH - MAY AUG. - SEPT.	1 lb.	40 LBS.
c) DWARF (TURF-TYPE) FESCUE	MARCH - MAY AUG. - SEPT.	1 lb.	40 LBS.
TEMPORARY SEEDING:			
KIND OF SEED	SEEDING DATES	PER 1000 SQ. FT.	PER ACRE
a) OATS or PERENNIAL RYEGRASS	MARCH 1 - AUGUST 15	3lbs. 1 lb.	40 bu. 40 lbs.
b) TALL FESCUE	MARCH 1 - AUGUST 15	1 lb.	40 lbs.
c) RYE or WHEAT or PERENNIAL RYEGRASS	AUGUST 16 - NOVEMBER 1	3 lbs. 3 lbs. 1 lb.	2 bu. 2 bu. 40 lbs.
d) TALL FESCUE	AUGUST 16 - NOVEMBER 1	1 lb.	40 lbs.

LIME: AGRICULTURAL GROUND LIMESTONE.  
FERTILIZER: 10-10-10 ANALYSIS.  
MULCH: SMALL GRAIN STRAW, PREFERABLY WHEAT OR RYE.  
ASPHALT EMULSION: RAPID SETTING, RS1 OR RS2.  
MULCH NETTING: JUTE, COTTON OR PLASTIC NETTINGS.

**MAINTENANCE NOTES**

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED BY THE OWNER'S REPRESENTATIVE WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL TO ASSURE THAT THE MEASURES ARE FUNCTIONING ADEQUATELY. SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOILS WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

**CONSTRUCTION ROAD STABILIZATION (CRS)**  
BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

**SILT FENCE (SF)**  
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN-PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

**INLET PROTECTION (IP)**  
THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN, AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

**INSTALLATION:**

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. AFTER THE GRADING OPERATION SPREAD TOPSOIL WHERE NEEDED.

B. WHERE COMPACTED SOILS OCCUR, THEY SHOULD BE BROKEN UP SUFFICIENTLY TO CREATE A FAVORABLE ROOTING DEPTH OF 6-8 INCHES.

C. FOR PERMANENT SEEDING, PLACE TOPSOIL TO A DEPTH OF 4 INCHES MINIMUM.

D. APPLY LIME AT A RATE AS RECOMMENDED BY SOIL TESTS, OR AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET OR TWO TONS PER ACRE OF AGRICULTURAL GROUND LIMESTONE. FOR BEST RESULTS MAKE A SOIL TEST.

E. APPLY FERTILIZER AT A RATE AS RECOMMENDED BY SOIL TESTS, OR AT A RATE OF 25 POUNDS PER 1000 SQUARE FEET OR 1000 POUNDS PER ACRE OF 10-10-10. FOR BEST RESULTS MAKE A SOIL TEST.

F. WORK THE LIME AND FERTILIZER INTO THE SOIL WITH A DISK HARROW, SPRINGTOOTH HARROW, OR OTHER SUITABLE FIELD EQUIPMENT TO A DEPTH OF THREE INCHES. ON SLOPING LAND, THE FINAL OPERATION SHALL BE ON THE CONTOUR.

G. APPLY THE SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. SEED WHEAT OR RYE NO DEEPER THAN ONE INCH. SEED RYEGRASS NO DEEPER THAN ONE-FOURTH INCH.

H. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHEREVER POSSIBLE.

I. APPLY MULCH AT A RATE OF TWO TONS PER ACRE OR 100 POUNDS (TWO TO THREE BALES) PER 1000 SQUARE FEET.

J. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

K. ANCHOR MULCH BY ONE OF THE FOLLOWING METHODS:

1. MECHANICAL - USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL.
2. ASPHALT EMULSION - APPLY AT THE RATE OF 160 GALLONS PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.
3. MULCH NETTINGS - USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. USE IN AREAS OF WATER CONCENTRATION TO HOLD MULCH IN PLACE.

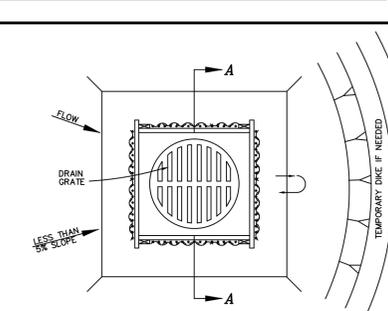
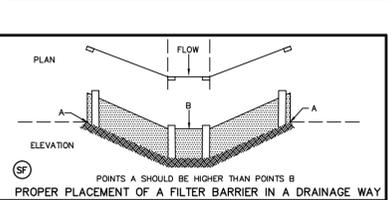
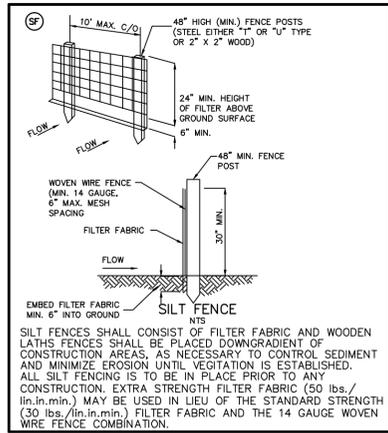
**MAINTENANCE:**

A. IRRIGATION - IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY AND HOT SEASONS, OR ON ADVERSE SITES.

B. REPAIRS - INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS, RESEEDINGS, AND MULCHING WITHIN THE PLANTING SEASON, IF POSSIBLE.

1. IF STAND IS INADEQUATE, OVERSEED AND FERTILIZE, USING HALF OF THE RATES ORIGINALLY APPLIED, AND MULCH.
2. IF STAND IS OVER 60 PERCENT DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION, SEEDING RECOMMENDATIONS, AND MULCHING RECOMMENDATIONS.

MIXTURE	FORMULA	Lbs./Ac.	FERTILIZER RATE Lbs./1000 SQ. FT.	TIME	MOWING
CREEPING RED FESCUE RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	12	FALL, YEARLY OR AS NEEDED	NOT CLOSER THAN 3"
TALL FESCUE	10-10-10	500	12	FALL, YEARLY OR AS NEEDED	NOT CLOSER THAN 4"
DWARF (TURF-TYPE) FESCUE	10-10-10	500	12	FALL, YEARLY OR AS NEEDED	NOT CLOSER THAN 2"
FLATPEA AND CROWN VETCH WITH FESCUE	0-20-20	400	10	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7 YEARS THEREAFTER	DO NOT MOW



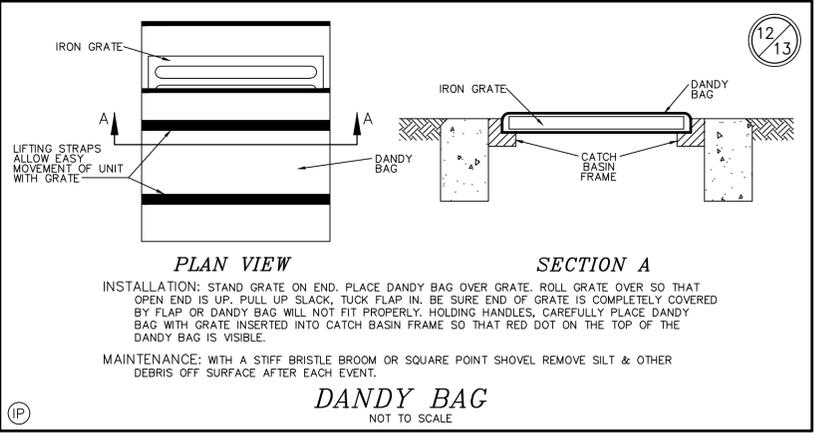
**SILT FENCE DROP INLET SEDIMENT BARRIER**  
NOT TO SCALE  
STRUCTURES # 1, 2, 10, 11 & 16

**NOTES**

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREA (LESS THAN 5%).
2. USE 2"x4" WOOD OR EQUIVALENT METAL STAKES, 3" MINIMUM LENGTH.
3. INSTALL 2"x4" WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM PASSING THE INLET. A TEMPORARY DKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

**EROSION AND SEDIMENT CONTROL**

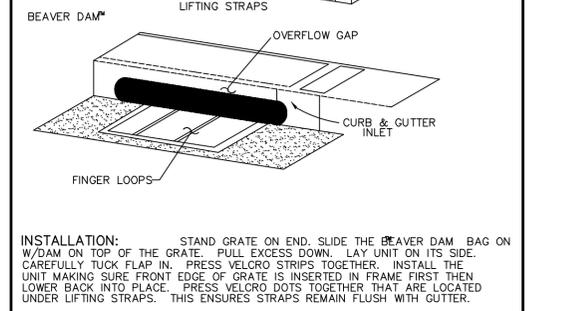
1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITILE COVERAGE UNDER THE THE OHIO EPA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF THE OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORM WATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.



**DANDY BAG**  
NOT TO SCALE  
USE THIS DETAIL FOR THE FOLLOWING STRUCTURES: EX5, EX6, EX16, 1, 9, 12, 13, 15, 18, 25, 29-31

**INSTALLATION:** STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK, TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

**MAINTENANCE:** WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT.



**BEAVER DAM**  
NOT TO SCALE  
USE THIS DETAIL FOR THE FOLLOWING STRUCTURES: 2, 3, 5, 6, 8, 10, 11, 16, 17, 20-23, 27, 28

**INSTALLATION:** STAND GRATE ON TOP OF THE GRATE. PULL EXCESS DOWN. LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER. INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST THEN LOWER BACK INTO PLACE. PRESS VELCRO DOTS TOGETHER THAT ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

**MAINTENANCE:** WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH EVENT.

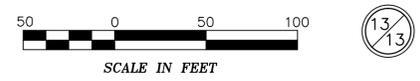
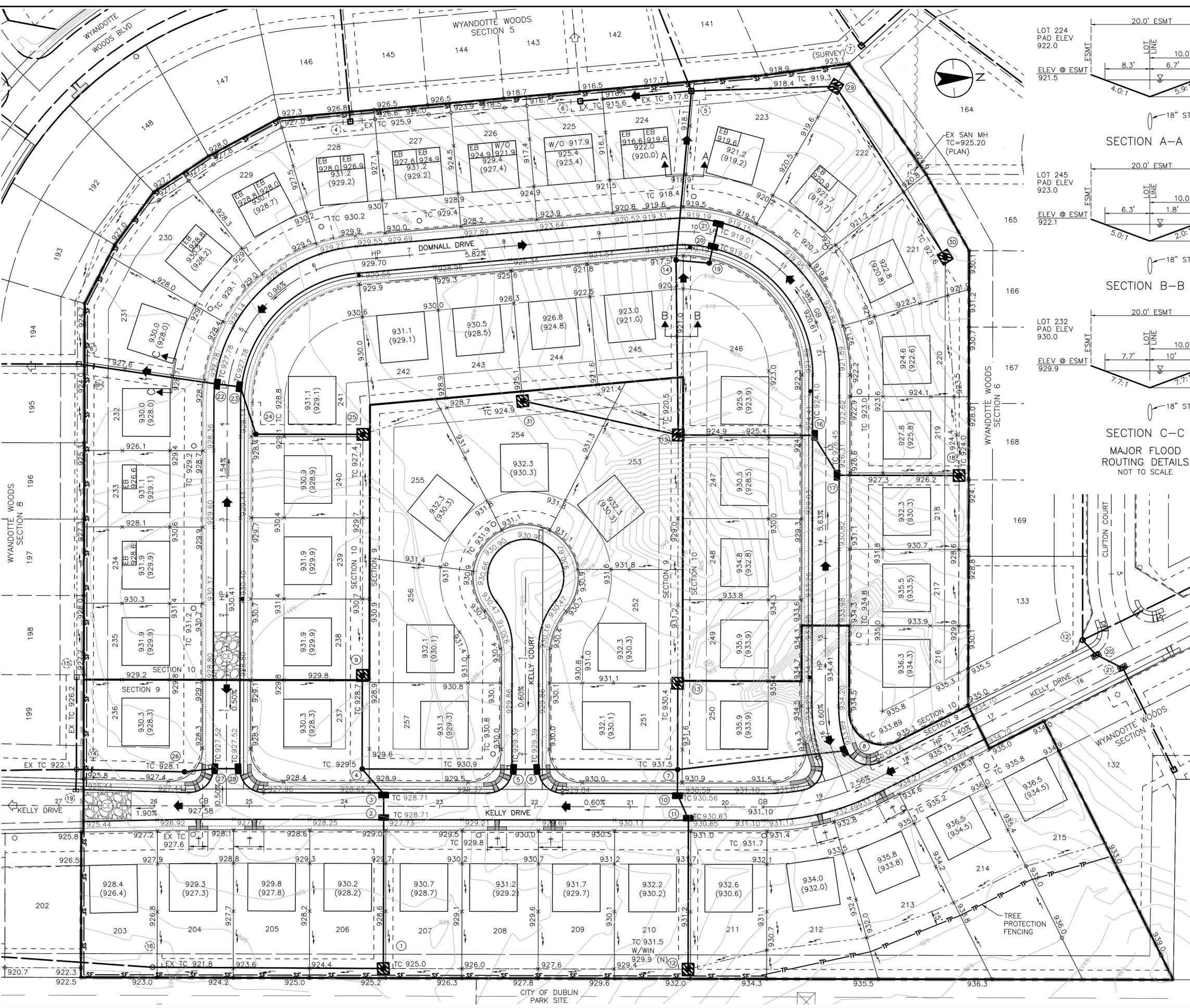
CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10

**EROSION CONTROL NARRATIVE & DETAILS**

PREPARED BY:  
**Stantec**  
Stantec Consulting Services, Inc.  
1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43260  
(614) 488-4383 1-800-340-2743 FAX (614) 488-4387

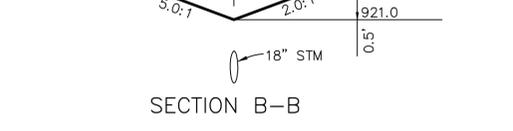
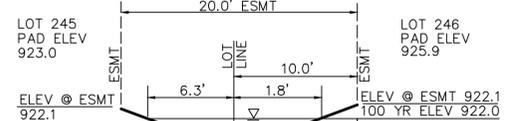
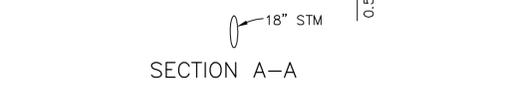
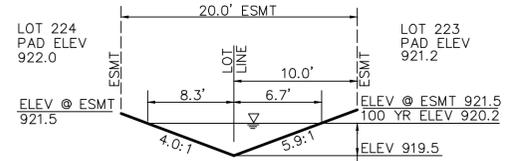
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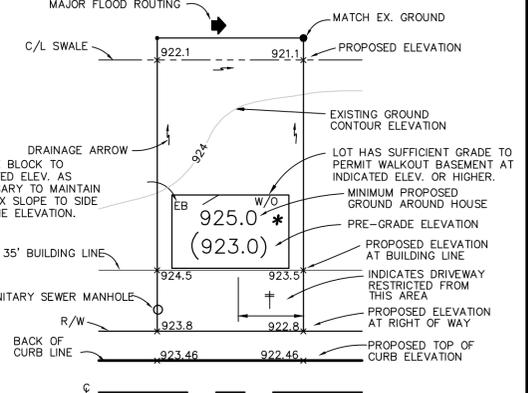
**EROSION AND SEDIMENT CONTROL LEGEND**

- MAJOR FLOOD ROUTING PATH
- FUTURE MAJOR FLOOD ROUTING PATH
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (PREVIOUSLY CONSTRUCTED WITH SANITARY PLANS)
- TREE PRESERVATION
- SILT FENCING
- STORM DRAIN INLET PROTECTION
- LIMITS OF DISTURBANCE
- PROPOSED DRAINAGE SWALE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED



NOTE: THIS ELEVATION HAS BEEN ESTABLISHED AS THE MINIMUM FOR THE GROUND AROUND THE HOUSE TO ENSURE PROPER DRAINAGE. THE SURVEYOR SHALL GIVE A CUT OR FILL TO THIS ELEVATION FROM ONE OR MORE STAKES, WHEN STAKING THE HOUSE.

NOTE: TO ENSURE PROPER COMPACTION OF FILL FOR BUILDING AREAS, FILL SHOULD BE TESTED AND CONSTRUCTED UNDER THE SUPERVISION OF A SOILS ENGINEER.



ALL EARTHWORK (STREET EXCAVATION AND OVERLOT GRADING) SHALL BE WITHIN +/- 0.1 FEET.  
THE GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'.

NOTES:  
ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.  
TREE FENCING LOCATION ON INDIVIDUAL LOTS TO BE APPROVED BY THE CITY OF DUBLIN.  
AREAS OF PRIVATE UTILITY INSTALLATION (I.E. CABLE TV, GAS, ELECTRICAL, ETC.) SHALL BE PREGRADED TO THE ELEVATIONS SHOWN ON THIS PLAN PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.  
4" UNDERDRAIN SHALL BE WRAPPED IN FILTER FABRIC WITH PERMEABILITY OF NO GREATER THAN 4 GAL/MIN/FT.

CITY OF DUBLIN, OHIO  
STREET, STORM SEWER & WATER IMPROVEMENTS  
FOR WYANDOTTE WOODS SECTION 9&10  
**GRADING & EROSION CONTROL PLAN**

PREPARED BY:  
 Stantec Consulting Services, Inc.  
1600 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
(614) 486-4383 1-800-340-2743 FAX (614)-486-4387

DESIGN:	ORDER NO.	DATE
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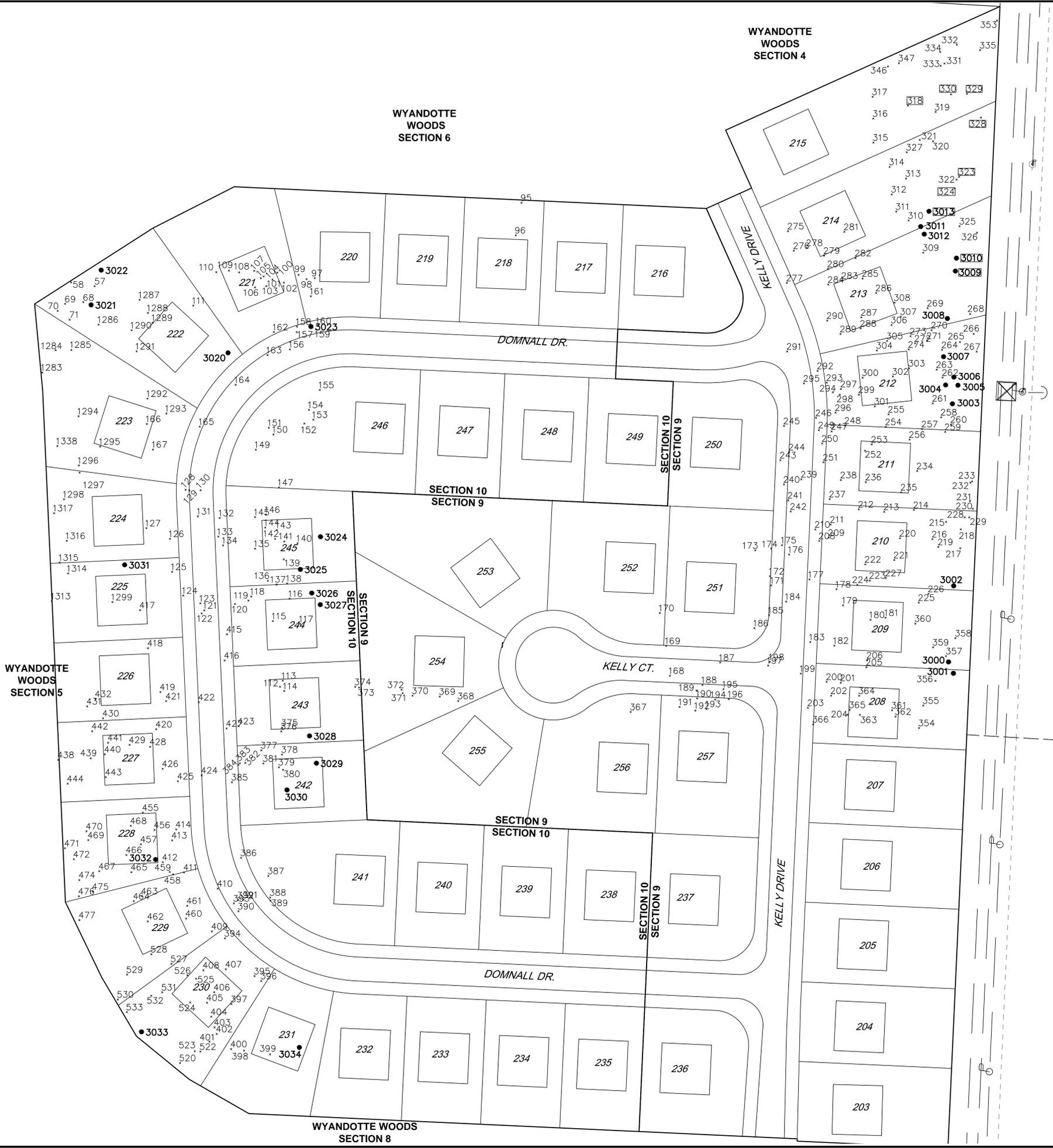


WYANDOTTE WOODS SECTION 4

WYANDOTTE WOODS SECTION 6

WYANDOTTE WOODS SECTION 5

WYANDOTTE WOODS SECTION 8



- 359 Trees to be impacted
- 357 Trees to remain
- 3000 Trees added to survey Feb. 2016



CITY OF DUBLIN, OHIO  
 TREE IMPACT PLAN  
 FOR WYANDOTTE WOODS SECTION 9 AND 10  
**TREE IMPACT PLAN**

PREPARED BY:  
 Stantec Consulting Services, Inc.  
 1600 Lake Shore Drive, Suite 100, Columbus, Ohio 43204  
 (614) 496-4383 1-800-340-2743 FAX (614)-496-4387

DESIGN: JEL	SCALE: 1"=50'	ORDER NO.	DATE
CHECKED: KK			2/19/16

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WYANDOTTE WOODS TREE SURVEY SECTION 9

WYANDOTTE WOODS TREE SURVEY SECTION 10

Table with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition, Status. Lists tree data for Section 9 from point 168 to 273.

Table with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition, Status. Lists tree data for Section 9 from point 274 to 373.

SECTION 9 NEW TREES

Summary table for Section 9 new trees with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition, Status. Totals: MISSING: 146, DEAD/POOR: 24, GOOD: 36, TO REMAIN: 9.

Table with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition. Lists tree data for Section 10 from point 399 to 498.

Table with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition. Lists tree data for Section 10 from point 399 to 1338.

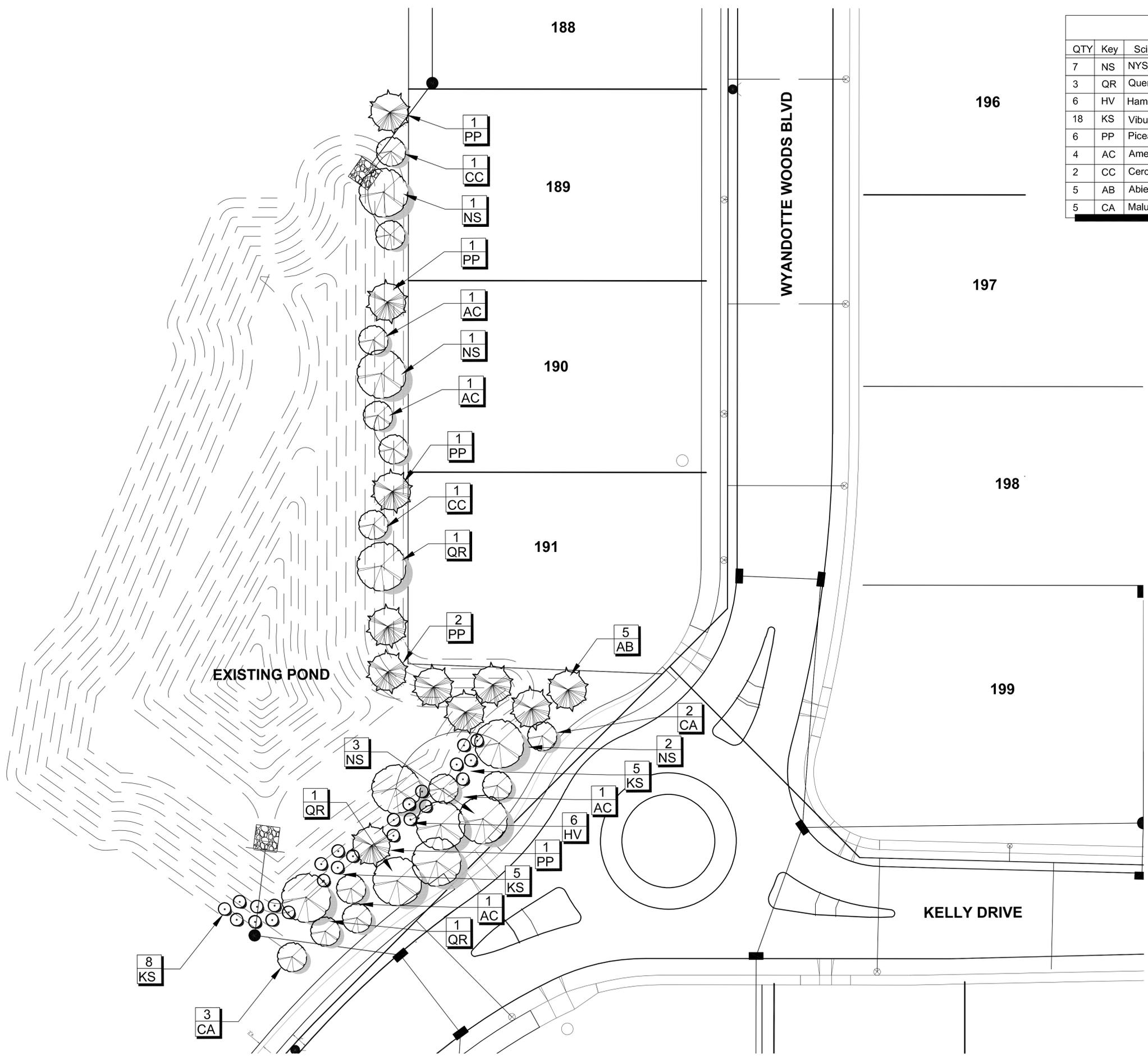
Table with columns: Point, Description, 2016 Condition, 2016 Notes, Old Condition. Lists tree data for Section 10 NEW TREES from point 3020 to 3034.

TOTAL # OF TREES - MISSING: 14
TOTAL # OF TREES - DEAD/POOR: 151
TOTAL # OF TREES - GOOD: 57
TOTAL # OF TREES: 222

CITY OF DUBLIN, OHIO TREE IMPACT PLAN FOR WYANDOTTE WOODS SECTION 9 AND 10 TREE IMPACT PLAN TABLE. Includes logo for Stantec Consulting Services, Inc. and a table for DESIGN, CHECKED, ORDER NO., DATE.

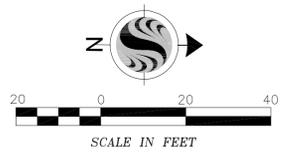
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POND LANDSCAPE				
QTY	Key	Scientific Name	Common Name	Size
7	NS	NYSSA sylvatica	Black Tupelo Wild Fire	2.5" CAL
3	QR	Quercus ruba	Red Oak	2.5" CAL
6	HV	Hamamelis virginiana	Witch Hazel	4' HT
18	KS	Viburnum carlesII	Korean Spice Burkwood	4' HT
6	PP	Picea pungens	Colorado Spruce	6' HT
4	AC	Amelanchier canadensis	Serviceberry	1.5" CAL
2	CC	Cercis canadensis	Redbud	1.5" CAL
5	AB	Abies balsamea	Balsam Fir	6" HT
5	CA	Malus spp.	Crabapple	3 GAL

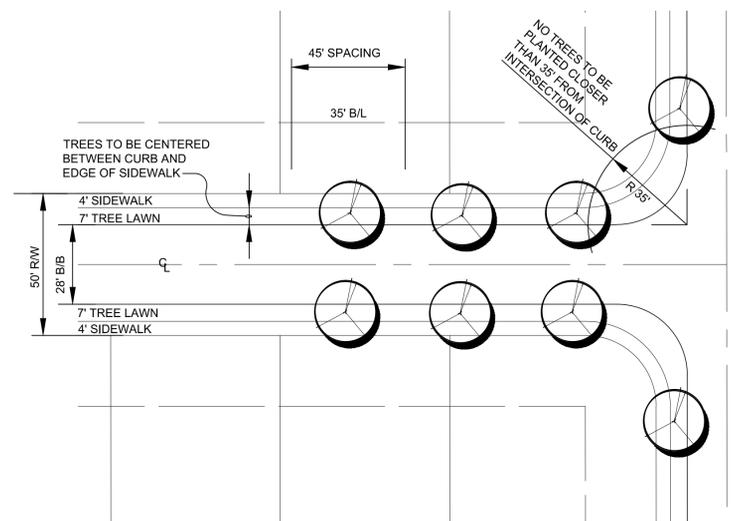
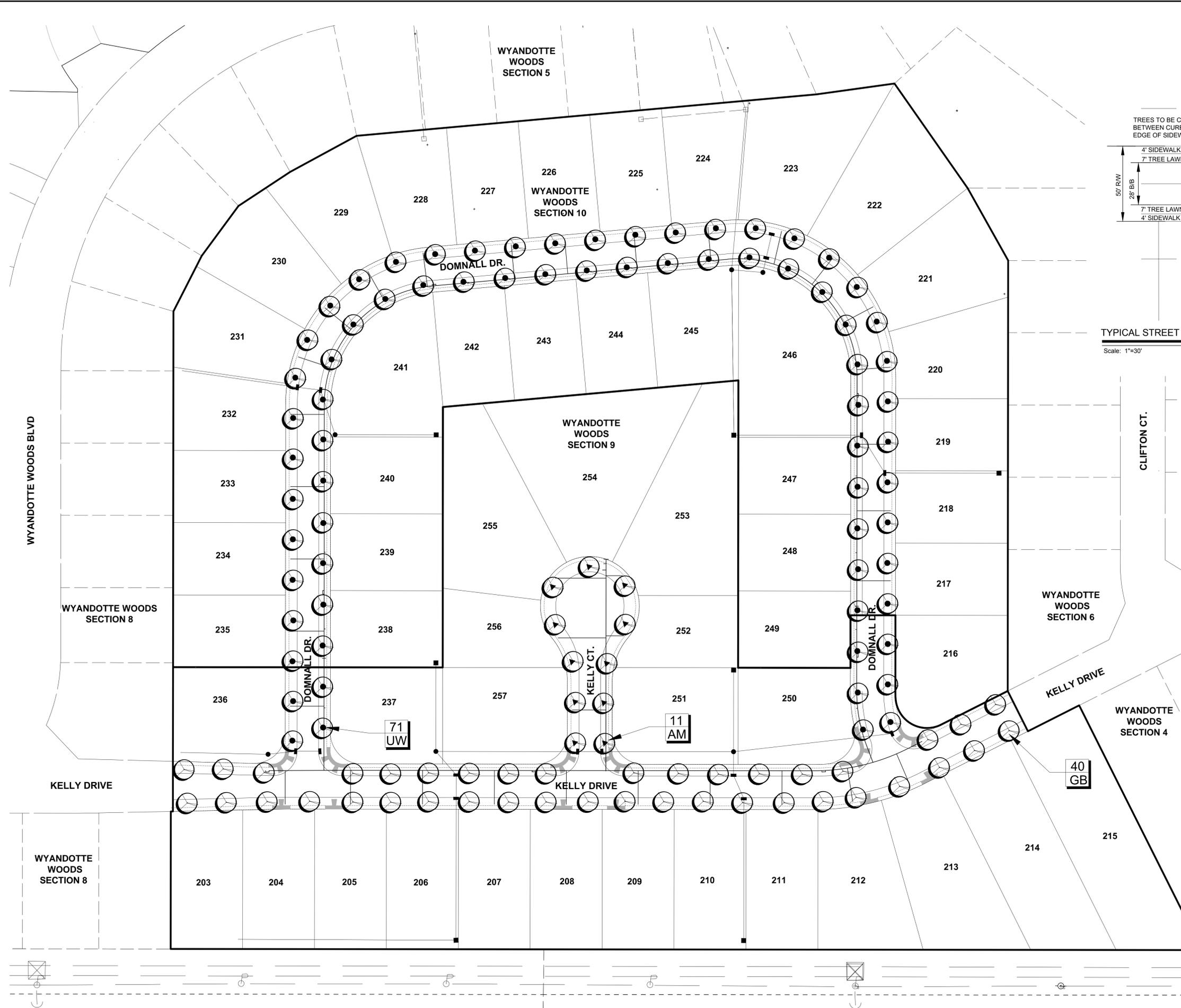
UNDERGROUND UTILITIES  
 Two Working Days  
**BEFORE YOU DIG**  
 Call 800-362-2764 (Toll free)  
 OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS  
 MUST BE CALLED DIRECTLY



CITY OF DUBLIN, OHIO  
 FOR WYANDOTTE WOODS SECTION 9 AND 10  
**LANDSCAPE PLAN  
 FOR POND AREA**

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
 1500 Lake Shore Drive, Suite 100 Columbus, Ohio 43204  
 (614) 486-4383 1-800-340-2743 FAX (614)-486-4387

DESIGN: JEL SCALE: 1"=20' ORDER NO. DATE  
 CHECKED: KK 12/3/15



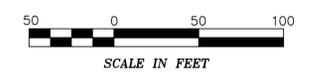
TYPICAL STREET TREE PLANTING DETAIL

Scale: 1"=30'

QTY	Key	Street Name	Scientific Name	Common Name	Size
11	AM	Kelly Ct.	Acer miyabai 'State Street'	State Street Miyabe Maple	2.5" CAL
40	GB	Kelly Dr.	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	2.5" CAL
71	UW	Domnall Dr.	Ulmus 'Urban x Wilsoniana'	Patriot Elm	2.5" CAL

SECTION 9 AND 10 STREET TREE PLANT LIST

UNDERGROUND UTILITIES  
 Two Working Days  
 BEFORE YOU DIG  
 Call 800-362-2764 (Toll free)  
 OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS  
 MUST BE CALLED DIRECTLY



CITY OF DUBLIN, OHIO  
 TREE REPLACEMENT AND STREET TREE PLAN  
 FOR WYANDOTTE WOODS SECTION 9 AND 10  
**LANDSCAPE PLAN**

PREPARED BY:  
**Stantec Consulting Services, Inc.**  
 1600 Lake Shore Drive, Suite 100, Columbus, Ohio 43204  
 (614) 490-4383 1-800-340-2745 FAX (614) 490-4397

DESIGN: JEL	SCALE: 1"=50'	ORDER NO.	DATE
CHECKED: KK			10/26/15

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