

GENERAL NOTES

- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED IN THE STANDARD SPECIFICATIONS. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL USE CAUTION WHERE THERE ARE POTENTIAL CONFLICTS. PRIOR TO THE CONSTRUCTION OF THE STORM SEWER, THE CONTRACTOR SHALL NOTIFY THE CITY TO LOCATED EXISTING WATER MAIN, WATER SERVICES, SANITARY SEWER, AND SANITARY SEWER SERVICES WHERE THE PROPOSED STORM SEWER WILL CROSS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION ARTICLE 550.07, METHOD 1 ONLY.
- STORM SEWER STRUCTURE OFFSET LOCATIONS ARE TO THE BACK OF CURB IF THE STRUCTURE IS IN THE CURB LINE. OTHERWISE IT IS TO THE CENTER OF THE STRUCTURE.
- FRAME ELEVATION GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION ON THE AREA IN WHICH THERE ARE LOCATED AS PART OF THE STRUCTURE COST.
- ALL AGGREGATE USED ON THIS PROJECT SHALL BE CRUSHED MATERIAL.
- ALL SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- RAMPS FOR ACCESS FOR THE DISABLED SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAILS IN THE PLANS AT THE LOCATIONS WHERE PROPOSED CROSSWALKS ABUT THE STREET RETURNS OR AS DIRECTED BY THE ENGINEER. THE ENGINEER SHALL DETERMINE THE TYPE OF RAMP TO BE PROVIDED AND THE LOCATION.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO STRUCTURES AT ALL TIMES.
- IF ANY EXISTING STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. SAID CONNECTION SHALL BE CONSIDERED INCIDENTAL TO THE STORM SEWER CONSTRUCTION.
- ANY DAMAGE DONE TO THE WATER MAIN, WATER SERVICES, SANITARY SEWER, OR SANITARY SEWER SERVICES NOT CONSIDERED IN CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
- WHERE THE PROPOSED PAVEMENT, SIDEWALK, OR CURB AND GUTTER ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN IN PLACE, THE EXISTING PAVEMENT OR CONCRETE SHALL BE SAWCUT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING SURFACES AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. FLAGGERS ARE REQUIRED TO WEAR GREEN VESTS AS DESCRIBED IN THE SPECIAL PROVISIONS. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
- THE COUNTRY CLUB HILLS CITY POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO STREET CLOSURES. EMERGENCY ACCESS SHALL BE ALLOWED AT ALL TIMES.
- THE CONTRACTOR SHALL REPLACE ALL SIGNS REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL POSTS, RAILROAD TIES, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND STOCKPILED AT THE R.O.W. LINE AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN PART OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE SAME FROM HARM SO PROPERTY OWNERS MAY REUSE THESE ITEMS.
- CONNECTION OF PROPOSED STORM SEWER INTO EXISTING STORM SEWER OR EXISTING STORM SEWER STRUCTURES SHALL BE INCIDENTAL.
- CONNECTION OF EXISTING STORM SEWER INTO PROPOSED STORM SEWER OR PROPOSED STORM SEWER STRUCTURES SHALL BE INCIDENTAL.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- ALL MANHOLES AND HANDHOLES SHALL HAVE THE WORDS "STORM", "SANITARY", "WATER" OR "LIGHTING", AS APPLICABLE STAMPED ONTO SELF SEALING LIDS FOR TYPE I FRAMES AS INCIDENTAL TO THE MANHOLE OR HANDHOLE.
- ANY MAILBOXES IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH CITY STANDARDS AS INCIDENTAL TO CONSTRUCTION. MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- POROUS GRANULAR EMBANKMENT: FINAL QUANTITY DETERMINATION SHALL BE BASED ON CROSS-SECTIONS TAKEN AT THE TIME OF CONSTRUCTION.
- BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE: ANY ANTI-STRIPPING ADDITIVE REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SURFACE COURSE.
- PORTLAND CEMENT CONCRETE SIDEWALK: EXCAVATION FOR THE PROPOSED SIDEWALK WILL BE PAID FOR AS EARTH EXCAVATION IN AREAS WHERE THERE IS NO EXISTING SIDEWALK. EXCAVATION FOR THE PROPOSED SIDEWALK WILL BE PAID FOR SEPARATELY AS SIDEWALK REMOVAL IN AREAS WHERE THE EXISTING SIDEWALK IS TO BE REMOVED AND REPLACED.
- DRIVEWAY PAVEMENT REMOVAL AND SIDEWALK REMOVAL: THIS WORK SHALL ALSO INCLUDE REMOVING AND DISPOSING OF ANY ADDITIONAL MATERIAL REQUIRED TO ESTABLISH THE PROPOSED SUBGRADE ELEVATION AS DETERMINED BY THE ENGINEER.
- WHERE ADJACENT TREES HANG OVER THE PROPOSED PATH LOCATION, THE CONTRACTOR SHALL TRIM AND PRUNE TREES TO PROVIDE A 2-FOOT HORIZONTAL CLEARANCE AND 10-FOOT VERTICAL CLEARANCE (MINIMUM) FROM THE PATH. THIS TRIMMING AND PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS AND BE CONSIDERED INCIDENTAL TO THE EARTH EXCAVATION PAY ITEM.
- REMOVAL OF EXISTING SHRUBBERY AND BUSHES ALONG PROPOSED PATH SHALL BE CONSIDERED INCIDENTAL TO THE EARTH EXCAVATION PAY ITEM.

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	R	STRUCTURE TO BE RECONSTRUCTED
BIT	BITUMINOUS PAVEMENT	A	STRUCTURE TO BE ADJUSTED
GR	GRAVEL	▲	CENTRAL ANGLE
CMP	CORRUGATED METAL PIPE	D=	DEGREE OF CURVE
FH	FIRE HYDRANT	T=	TANGENT LENGTH
CI	CAST IRON	L=	CURVE LENGTH
DI	DUCTILE IRON	R=	RADIUS OF CURVE
F-F	FACE-TO-FACE	E=	EXTERNAL DISTANCE
E-E	EDGE-TO-EDGE	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)
B-B	BACK-TO-BACK	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
BM	BENCH MARK	PC	POINT OF CURVATURE
INV EL	INVERT ELEVATION	PI	POINT OF INTERSECTION
CL EL	CENTERLINE ELEVATION	PT	POINT OF TANGENCY
P	POINT	POT	POINT ON TANGENCY
G	GUTTER	PCC	POINT OF COMPOUND CURVATURE
C	CURB	PRC	POINT OF REVERSE CURVATURE
BC	BACK OF CURB	VC	VERTICAL CURVE
EOP	EDGE OF PAVEMENT	N&W	NAIL AND WASHER
PL	PROPERTY LINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
ROW	RIGHT OF WAY		
FL	FLOW LINE		
TF	TOP OF FRAME		
TC	TOP OF CURB OR CONCRETE		

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
	THE FOLLOWING ITEMS ARE CONSTRUCTION TYPE CODE I000-2A		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	153
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	35
20200100	EARTH EXCAVATION	CU YD	612
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	907
20700220	POROUS GRANULAR EMBANKMENT	CU YD	76
20800250	TRENCH BACKFILL, SPECIAL	CU YD	2
** 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	1367
** 25000210	SEEDING, CLASS 2A	ACRE	0.28
** 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26
** 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	26
** 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26
25100630	EROSION CONTROL BLANKET	SO YD	1367
28000400	PERIMETER EROSION BARRIER	FOOT	2240
28000500	INLET AND PIPE PROTECTION	EACH	1
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SO YD	557
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	3742
40600895	CONSTRUCTING TEST STRIP	EACH	1
42300710	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6 INCH, SPECIAL	SO YD	141
42400430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SO FT	50
42400440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SO FT	3087
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	231
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	335
44000600	SIDEWALK REMOVAL	SO FT	5974
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SO YD	70
550A0110	STORM SEWERS, CLASS A, TYPE I 21"	FOOT	10
550A0130	STORM SEWERS, CLASS A, TYPE I 27"	FOOT	22
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	3
60234200	INLETS, TYPE A, TYPE I FRAME, OPEN LID	EACH	1
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE I FRAME, CLOSED LID	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	6
60255700	VALVE VAULTS TO BE ADJUSTED	EACH	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	18
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6 12	FOOT	281
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6 24	FOOT	298
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
** 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6'	FOOT	527
** 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12'	FOOT	708
** 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24'	FOOT	15
78300100	PAVEMENT MARKING REMOVAL	SO FT	30
X0322996	END SECTIONS TO BE RELOCATED	EACH	2
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	9
X0605639	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER	EACH	9
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'C', N50	TON	654
X5063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4 12	FOOT	137
** X8440116	RELOCATE EXISTING LIGHTING UNIT, SPECIAL	EACH	2
** XX004789	SPRINKLER HEAD TO BE RELOCATED	EACH	8
20000990	AGGREGATE FOR TEMPORARY ACCESS	TON	134

** = DENOTES SPECIALTY ITEM

QC/QA BITUMINOUS MIXTURE SCHEDULE

QC/QA BITUMINOUS PAY ITEMS	QUANTITIES	CONVERSION FACTOR	TONS
CLASS D PATCHES, TY IV, 6-INCH	70 SQ. YD.	0.345 TONS/SQ. YD.	25
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'C', N50	654 TON		654
TOTAL QC/QA BITUMINOUS QUANTITY (TON)			679

BENCHMARKS

- BM #1 NORTHWEST FLANGE BOLT OF FIRE HYDRANT ON NORTHWEST X OF 183rd STREET AND SOLERI DRIVE. ELEVATION = 693.38
- BM #2 SOUTHWEST FLANGE BOLT OF FIRE HYDRANT AT NORTHWEST X OF 183rd STREET AND CRAFORD. ELEVATION = 692.66
- TBM #1 NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT NORTHWEST X OF SOLERI DRIVE AND 181st (BOLT UNDER "E" IN EIJJ)
- TBM #2 EAST FLANGE BOLT OF FIRE HYDRANT SOUTHEAST X OF FAIRWAY AND RAVISLOE (BOLT UNDER "E" IN EIJJ)
- TBM #3 EAST FLANGE BOLT OF FIRE HYDRANT NORTHEAST X OF FAIRWAY AND OLYMPIA (BOLT UNDER "E" IN EIJJ)

LEGEND

EXISTING	PROPOSED
SA SA	SA SA
ST ST	ST ST
W	W
WS	WS
FM	FM
MANHOLE	MANHOLE
CATCH BASIN	CATCH BASIN
INLET	INLET
DRYWELL	DRYWELL
FLARED END SECTION	FLARED END SECTION
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE W/ BOX AND COVER	WATER VALVE W/ BOX AND COVER
WATER VALVE VAULT	WATER VALVE VAULT
WATER SERVICE BOX OR CURB STOP	WATER SERVICE BOX OR CURB STOP
WATER METER	WATER METER
CLEAN OUT	CLEAN OUT
SEPTIC VENT	SEPTIC VENT
TO BE ABANDONED AND/OR REMOVED	TO BE ABANDONED AND/OR REMOVED
GAS LINE	GAS LINE
GAS VALVE W/ BOX AND COVER	GAS VALVE W/ BOX AND COVER
GAS VALVE VAULT	GAS VALVE VAULT
GAS METER	GAS METER
GAS RISER	GAS RISER
GAS SERVICE VALVE	GAS SERVICE VALVE
TELEPHONE CABLE	TELEPHONE CABLE
TELEPHONE DUCT	TELEPHONE DUCT
TELEPHONE VAULT	TELEPHONE VAULT
TELEPHONE RISER	TELEPHONE RISER
CABLE TELEVISION (BURIED)	CABLE TELEVISION (BURIED)
CABLE T.V. RISER	CABLE T.V. RISER
CABLE T.V. VAULT	CABLE T.V. VAULT
UNDERGROUND ELECTRICAL	UNDERGROUND ELECTRICAL
ELECTRIC METER	ELECTRIC METER
PAD MOUNTED TRANSFORMER	PAD MOUNTED TRANSFORMER
ELECTRIC VAULT	ELECTRIC VAULT
JUNCTION BOX	JUNCTION BOX
UTILITY POLE w/ GUY ANCHOR	UTILITY POLE w/ GUY ANCHOR
UTILITY POLE w/ LIGHT	UTILITY POLE w/ LIGHT
LIGHT STANDARD	LIGHT STANDARD
MAIL BOX	MAIL BOX
STREET SIGN	STREET SIGN
RAILROAD SIGNAL	RAILROAD SIGNAL
TRAFFIC SIGNAL CONTROLLER	TRAFFIC SIGNAL CONTROLLER
TRAFFIC SIGNAL POST w/ SIGNAL HEAD	TRAFFIC SIGNAL POST w/ SIGNAL HEAD
HANDHOLE	HANDHOLE
DECIDUOUS TREE (W/ TRUNK INCH DIA.)	DECIDUOUS TREE (W/ TRUNK INCH DIA.)
CONIFEROUS TREE (W/ HEIGHT)	CONIFEROUS TREE (W/ HEIGHT)
DECIDUOUS BUSH	DECIDUOUS BUSH
CONIFEROUS BUSH	CONIFEROUS BUSH
DEFINING EDGE OF BRUSH OR FORESTED AREA	DEFINING EDGE OF BRUSH OR FORESTED AREA
FENCE	FENCE
GUARD RAIL	GUARD RAIL
CULVERT (CMP UNLESS NOTED)	CULVERT (CMP UNLESS NOTED)
DITCH	DITCH
SUMMIT	SUMMIT
EDGE OF LAKE, RIVER, ETC.	EDGE OF LAKE, RIVER, ETC.
MARSH	MARSH
TOP OR TOE OF SLOPE	TOP OR TOE OF SLOPE
CONTOUR	CONTOUR
EASEMENT	EASEMENT
RIGHT OF WAY (ROW)	RIGHT OF WAY (ROW)
FENCED RIGHT OF WAY (ROW)	FENCED RIGHT OF WAY (ROW)
RIGHT OF WAY MONUMENT	RIGHT OF WAY MONUMENT
UNFENCED PROPERTY LINE	UNFENCED PROPERTY LINE
FENCED PROPERTY LINE	FENCED PROPERTY LINE
IRON PIPE (PROPERTY CORNER)	IRON PIPE (PROPERTY CORNER)
CORPORATE LIMITS	CORPORATE LIMITS
BASE LINE OR SURVEY LINE	BASE LINE OR SURVEY LINE
CENTER LINE	CENTER LINE
PROPOSED EL./(EXISTING EL.) (POINT, GUTTER, TOP OF CURB)	PROPOSED EL./(EXISTING EL.) (POINT, GUTTER, TOP OF CURB)
SOIL BORING AND NUMBER	SOIL BORING AND NUMBER
BENCH MARK	BENCH MARK
SURVEY CONTROL POINT	SURVEY CONTROL POINT

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**CITY OF COUNTRY CLUB HILLS
 AMPHITHEATER SHARED USE PATH**

**LEGEND, ABBREVIATIONS,
 GENERAL NOTES BENCHMARKS
 AND SUMMARY OF QUANTITIES**

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