

ABBREVIATIONS

<	ANGLE
ABC	AGGREGATE BASE COURSE
AC	ACRE(S)
ACI	AMERICAN CONCRETE INSTITUTE
AGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BALL VALVE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B-B	BACK-TO-BACK OF CURB DIMENSION
CL	CENTERLINE
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CF	CUBIC FEET
CHD	CHORD LENGTH
CI	CAST IRON PIPE
CHK	CHECK VALVE
CLR	CLEAR
CLM	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
C-B	CENTERLINE TO BACK OF CURB DIMENSION
COORD	COORDINATE
CU	COPPER PIPING
CTRS	CENTERS
CY	CUBIC YARDS
CS	CORPORATION STOP
D	DEGREE OF CURVE
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DI	DUCTILE IRON PIPE
DN	DOWN
DNSTR	DOWNSTREAM
DP	DRAINAGE PIPE/STORM PIPE
DWG	DRAWING
E	EAST
EJ	EXPANSION JOINT
EL	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXP	EXPANSION
EX, EXIST	EXISTING
EXT	EXTERIOR
E =	EXTERNAL DISTANCE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIELD ENTRANCE
FF	FINISH FLOOR
FIL	FILLET
FIN	FINISH
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FRMG	FRAMING
FTG	FOOTING
F-F	FACE TO FACE
GA	GAUGE
GI	GALVANIZED IRON PIPE
GRD	GRADE
GRS	GRATING SUPPORT
GRT	GROUT
GV	GAS VALVE
GYP	GYPSUM
HSE	HOUSE
HC	HORIZONTAL CURVE
HMA	HOT MIX ASPHALT
HNGR	HANGER
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HW	HOT WATER
HWH	HOT WATER HEATER
Δ =	CENTRAL ANGLE
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM
IP	IRON PIPE
JST	JOIST
JST	LENGTH OF CURVE
LAT	LATERAL
LAV	LAVATORY
LF	LINEAL FEET
L.P.	LOW POINT
LT	LEFT OF SURVEY BASE LINE
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTL	METAL
N	NORTH
No. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OO	OUTSIDE TO OUTSIDE
OPNG	OPENING
OPP	OPPOSITE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PERFORATED DRAIN PIPE

PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTD	RAFTER
RND	ROUND
RR	RAILROAD
RMS	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
TAN	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

	EARTH - FILL		BRICK
	EARTH - UNDISTURBED		STEEL
	ROCK (GEOLOGICAL)		INSULATION (LOOSE/ BATT)
	STONE OR RIP RAP		INSULATION (RIGID)
	GRAVEL		WOOD (ROUGH)
	CONCRETE		WOOD (BLOCKING)
	CONCRETE BLOCK		WOOD (FINISH)
	CMU		DETECTABLE WARNING
	ASPHALT PAVEMENT		

SYMBOLS

CIVIL		WATER		UTILITY	
EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
		STORM SEWER	STORM SEWER		
				TRAFFIC RELATED	TRAFFIC RELATED
		EROSION CONTROL	EROSION CONTROL		
MISC	MISC				
SANITARY SEWER	SANITARY SEWER				

REV. NO.	DESCRIPTION	DATE

SITE DEVELOPMENT PLAN CUBBY PARK

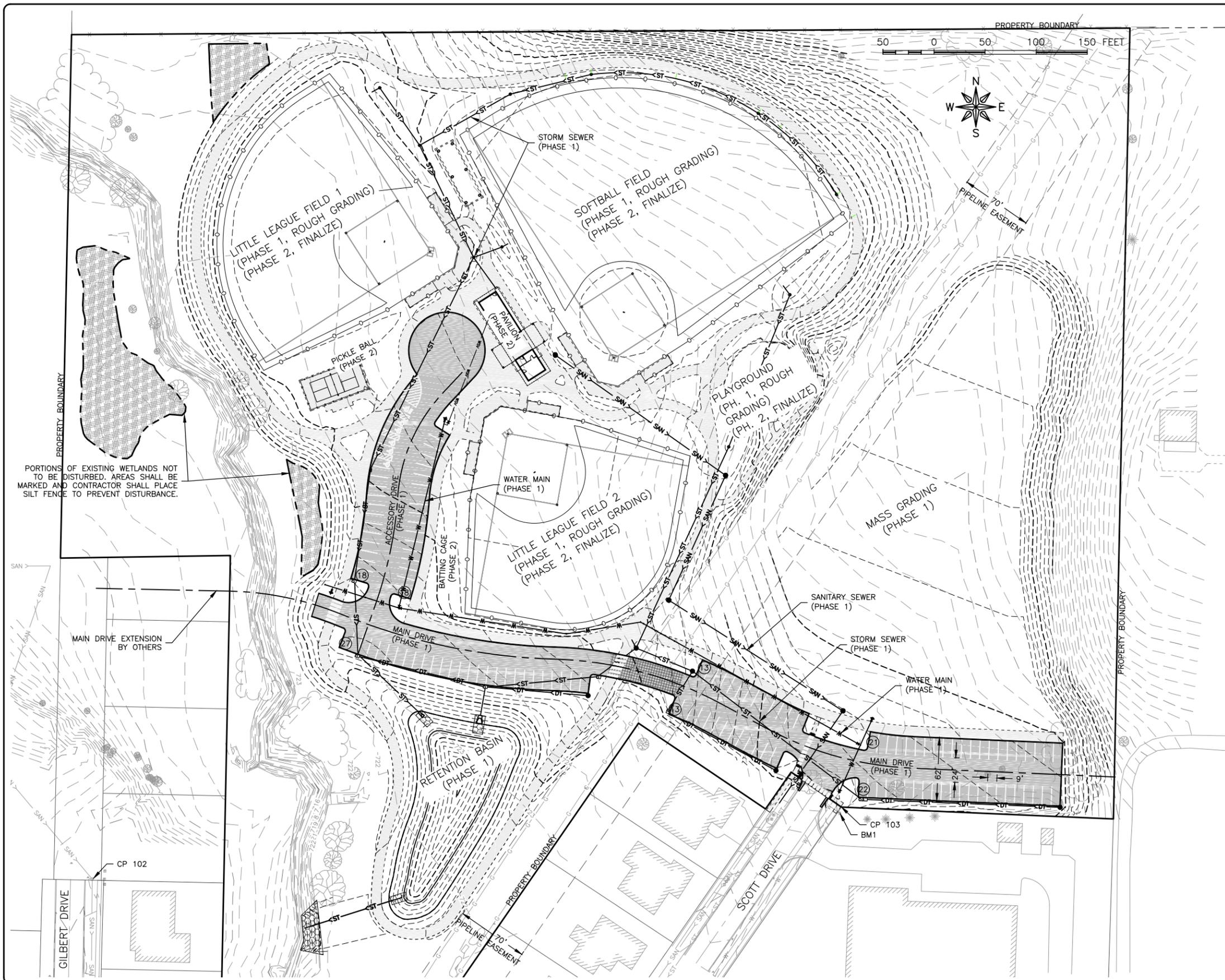
Site Location – End of Scott Drive
 Lot Description:
 Part of the Northwest Quarter of the Southeast Quarter of
 Section 6, Township 79 North, Range 4 West of the 5th P.M.,
 West Branch, Cedar County, Iowa
 AND
 Outlot B, Cedar Addition, Part Two, West Branch, Cedar
 County, Iowa

Owner
 City of West Branch, Iowa
 110 N. Poplar
 West Branch, IA 52358
 Owner Consultant
 Fehr Graham
 200 5th Avenue SE
 Suite 100
 Cedar Rapids, IA 52401

Zoning
 P-1 (Public Use District)

Building and Lot Use
 Lot Area: 826,213 SF / 18.967 Acres
 Existing Use
 Total Hard Surface: 0%
 Total Vegetated Surface: 100%
 Proposed Use (Phases 1 & 2)
 Public Park, Ball fields and PAVILION
 Buildings: 1
 No Dwelling Units
 Building Use: PAVILION and Restrooms
 Height: -
 Building Footprint: 1,579 SF (0.2%)
 Total Proposed Pavement & Sidewalks: 109,404 SF (13.2%)
 Total Vegetated Surface: 715,230 SF (86.6%)

Parking Data (Proposed)
 Total Provided Parking – 132 Spaces
 Handicap Parking – 6 Spaces
 Standard Parking – 126 Spaces



PORTIONS OF EXISTING WETLANDS NOT TO BE DISTURBED. AREAS SHALL BE MARKED AND CONTRACTOR SHALL PLACE SILT FENCE TO PREVENT DISTURBANCE.

MAIN DRIVE EXTENSION BY OTHERS

CONTROL POINTS

NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
CP102	617930.19	2226025.95	736.09	'X' ON RIM OF SANITARY MANHOLE AT END OF GILBERT DRIVE BETWEEN ROAD & EAST SIDEWALK
CP103	618031.56	2226754.23	735.54	PROPERTY CORNER; REBAR W/ CAP 10896 AT END OF EASTERLY RIGHT-OF-WAY TO SCOTT DRIVE

BENCH MARK

NO.	ELEV.	DESCRIPTION
BM1	737.85	BOLT ON HYDRANT AT END OF SCOTT DRIVE BEHIND EASTERLY SIDEWALK

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 CITY OF WEST BRANCH
 110 NORTH POPLAR STREET
 WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:
 CUBBY PARK IMPROVEMENTS –
 PHASE 1
 WEST BRANCH, IOWA

DRAWN BY: AJB
 APPROVED BY: NPK
 DATE: 11-14-2017
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

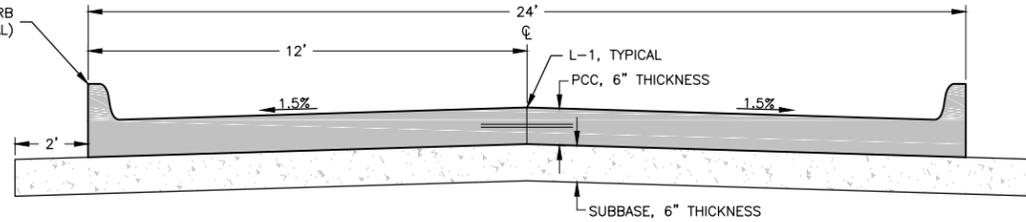
DRAWING:
 SITE MAP
 SET TYPE: FOR BID
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JOB NUMBER:
 16-072
 SHEET NUMBER:
 A.03

GENERAL NOTES:

- SECTIONS SHOWN ARE IN GENERAL, PLAN NOTATION AND ELEVATIONS GOVERN. SEE PLAN VIEWS FOR PAVEMENT INTERACTION BETWEEN SECTIONS.
- ALL SUBBASE SHALL BE MODIFIED SUBBASE UNLESS NOTED OTHERWISE IN THE PLANS.
- MODIFIED SUBBASE SHALL MEET IOWA DOT GRADATION No. 14.
- MACADAM SHALL MEET IOWA DOT GRADATION No. 13.
- REFER TO PHASE 2 PLANS FOR TRAIL LOCATIONS AT BACK OF CURB.
- GRANULAR MATERIALS CALCULATED USING IOWA DOT DESIGN MANUAL, CHAPTER 1B-4, UNIT WEIGHTS:
 - MACADAM STONE 130 lbs/CF
 - MODIFIED SUBBASE 140 lbs/CF
- 10% ADDED TO GRANULAR QUANTITIES FOR VARIABLES IN CONSTRUCTION. BT-1 OR BT-5 JOINTS MAY BE USED IN PLACE OF L-1 DEPENDING ON CONSTRUCTION SEQUENCING.

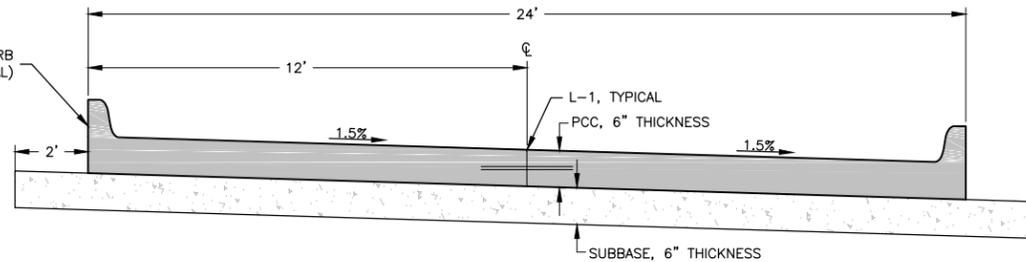
STANDARD 6" CURB AND GUTTER (TYPICAL)



24' BACK TO BACK W/ CROWN

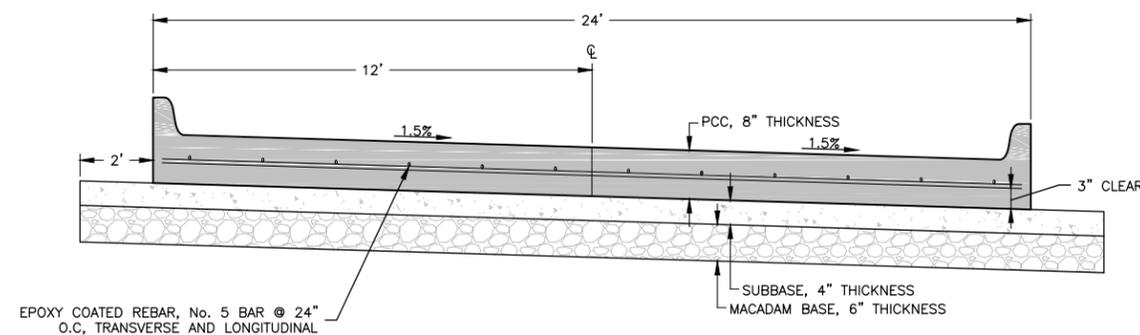
LOCATION		LENGTH	PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)
MAIN DRIVE	2+15.71 2+37.98	22.27	60	25

STANDARD 6" CURB AND GUTTER (TYPICAL)



24' BACK TO BACK W/O CROWN

LOCATION		LENGTH	PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)
MAIN DRIVE	4+94.45 5+11.07	16.62	44	18



24' BACK TO BACK REINFORCED

LOCATION		LENGTH	PCC	SUBBASE	MACADAM
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)	(TON)
MAIN DRIVE	5+11.07 5+83.34	72.27	193	52	73

GENERAL NOTES

- All work shall conform to and be performed in accordance with all applicable codes and ordinances.
- The Urban Standard Specifications for Public Improvements (SUDAS), 2017 edition plus Supplemental Specifications and Special Provisions as prepared by Fehr Graham shall be considered a part of these documents as if bound herein.
- The quantities indicated on the proposal form are approximate only, and do not constitute a warranty or guarantee by the Jurisdiction as to the actual quantities involved in the work. Such quantities are to be used for the purpose of comparison of bids and determining the amount of bid security, contract, and performance, payment, and maintenance bond. In the event of discrepancies between unit prices and unit price extensions listed in a bidder's proposal, unit prices shall govern and unit price extensions shall be corrected, as necessary, for agreement with unit prices. The Jurisdiction expressly reserves the right to increase or decrease the quantities during construction, and to make reasonable changes in design, provided such changes do not materially change the intent of the contract. The amount of work to be paid for shall be based upon the actual quantities performed.
- Construction Survey for this project to be provided by the CONTRACTOR. Note certification required in the Sportsfield Soil Preparation Special Provision.
- The CONTRACTOR shall notify all appropriate engineering departments and utility companies prior to construction. All necessary precautions shall be taken to avoid damage to any existing utility. Iowa Code 480, Underground Facilities Information, requires notice to Iowa One Call (1-800-292-8989) not less than 48 hours before excavation, excluding weekends and legal holidays.
- The location of existing underground utilities and rock elevations are shown in an approximate way only and have not been independently verified by the OWNER or its representative. The CONTRACTOR shall determine the exact location of all existing utilities and rock elevations before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the CONTRACTOR'S failure to locate and preserve any and all underground utilities and rock elevations.
- The CONTRACTOR shall visit the site and inspect the project area and become thoroughly familiar with the actual job conditions prior to bidding and the start of any work. Failure to visit the site shall not relieve the CONTRACTOR from performing the work in accordance with these drawings.
- The CONTRACTOR shall verify at the site, all dimensions and conditions shown on the drawings, and shall notify the ENGINEER of any discrepancies, omissions, and/or conflict prior to proceeding with the work.
- The CONTRACTOR shall not scale drawings. Dimensions shall govern. Large scale drawings shall govern over small scale drawings. Notes and details on the drawings shall apply to all similar conditions whether they are repeated or not.
- The CONTRACTOR shall be responsible for any damage to existing facilities outside the construction limits resulting from negligence.
- CONTRACTOR shall protect existing facilities, buildings, and other appurtenances not to be removed from the site during the construction activities.
- CONTRACTOR shall confine work to the construction limits and easements. If the CONTRACTOR obtains additional easement for the storage of equipment and materials, copies of the agreements with the property Owners shall be provided to the OWNER.
- CONTRACTOR shall submit a detailed construction schedule and staging plan a minimum of two (2) days prior to the preconstruction meeting.
- CONTRACTOR shall submit for acceptance work plans and schedules for accomplishment of temporary and permanent erosion control prior to the start of construction.
- CONTRACTOR shall coordinate temporary disruption of utility services with the City of West Branch, affected utility companies and/or affected property owners when relocating existing facilities, connecting to existing facilities and placing new services.
- CONTRACTOR shall coordinate work within the 70' Pipeline Easement with Kinder Morgan and Enterprise Products.
- CONTRACTOR is responsible to provide complete systems and amenities on this project. All equipment and materials requirement to complete the systems and amenities may not be detailed and/or specified to compete project and satisfy all codes and requirements.
- CONTRACTOR is responsible for locating and protecting those portions of wetlands indicated in the Plans. CONTRACTOR shall be financially responsible for reestablishing any portion of these wetlands that are disturbed during construction.

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

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IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF WEST BRANCH
110 NORTH POPLAR STREET
WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:

CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

GENERAL NOTES AND TYPICAL SECTIONS

SET TYPE: FOR BID
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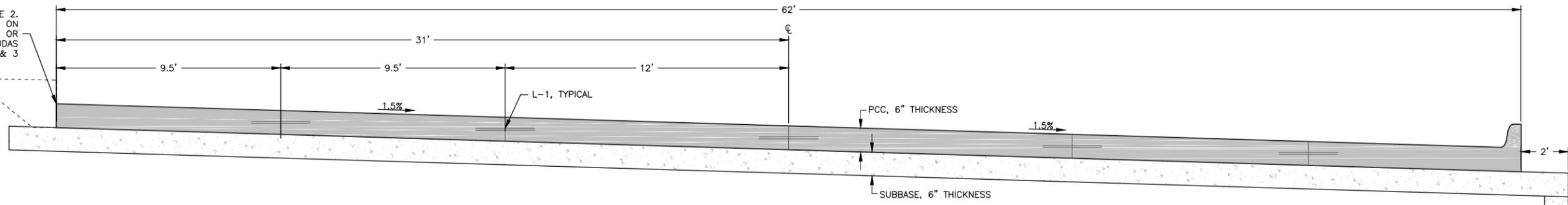
JOB NUMBER:

16-072

SHEET NUMBER:

B.01

SIDEWALK PER PHASE 2. AT CONTRACTORS OPTION ON HIGH SIDE CONSTRUCT WITH OR WITHOUT CURB, REFER TO SUDAS 7030.202 DETAILS 1 & 3

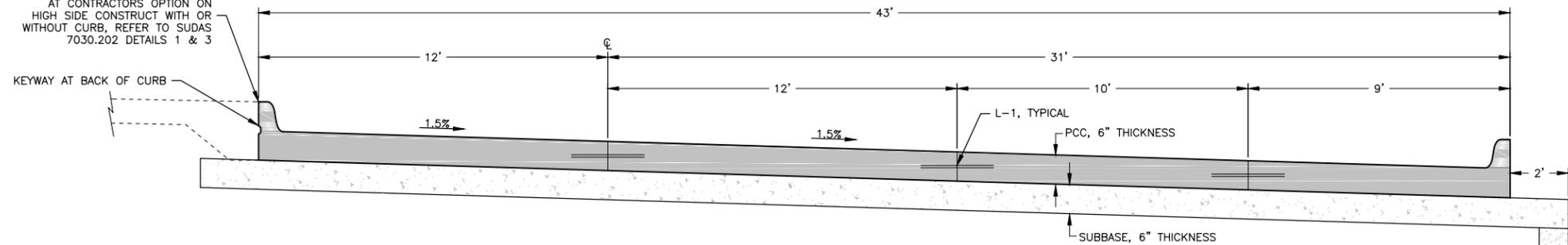


62' EDGE TO BACK, SLOPE RIGHT

LOCATION		LENGTH	PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)
MAIN DRIVE	5+93.76	7+03.15	109.39	754
	7+80.03	9+73.36	193.33	1332

SUBDRAIN, TYPE 1, CASE B W/ FABRIC

SIDEWALK PER PHASE 2. AT CONTRACTORS OPTION ON HIGH SIDE CONSTRUCT WITH OR WITHOUT CURB, REFER TO SUDAS 7030.202 DETAILS 1 & 3

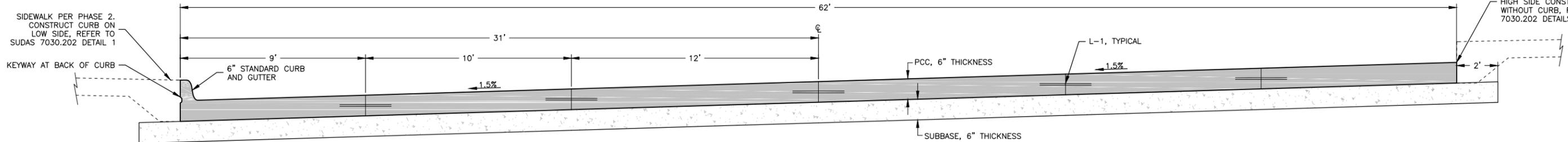


43' BACK TO BACK

LOCATION		LENGTH	PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)
MAIN DRIVE	3+04.88	4+94.45	189.57	906
	5+83.34	5+99.76	16.42	79

SUBDRAIN, TYPE 1, CASE B W/ FABRIC

SIDEWALK PER PHASE 2. CONSTRUCT CURB ON LOW SIDE, REFER TO SUDAS 7030.202 DETAIL 1



62' BACK TO BACK, SLOPE LEFT

LOCATION		LENGTH	PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(FEET)	(SY)	(TON)
ACCESSORY DRIVE	20+69.01	22+41.33	172.32	1187

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TYPICAL SECTIONS

SET TYPE: FOR BID
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JOB NUMBER:
16-072

SHEET NUMBER:
B.02

ESTIMATED QUANTITIES

BASE BID						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
1	1070-206-A-3	TRAFFIC CONTROL	0.5	0.5	1	LS
2	2010-108-C-0	CLEARING AND GRUBBING	0.5	0.5	1	LS
3	2010-108-D-1	TOPSOIL, ON-SITE	15310	675	15985	CY
4	2010-108-E-0	EXCAVATION, CLASS 10	36540	0	36540	CY
5	2010-108-E-0	EXCAVATION, CLASS 13	0	2191	2191	CY
6	2010-108-I-0	SUBBASE, MODIFIED (IADOT GRADATION NO. 14)	2216	1687	3903	TON
7	2010-108-I-1	SUBBASE, MACADAM (IADOT GRADATION NO. 13)	203	0	203	TON
8	2010-108-O-0	SUBBASE, WASHED SAND, 4" THICK, UNDER SURFACE AGGRAGATE	0	1295	1295	TON
9	2010-108-P-0	INFIELD/WARNING TRACK SKIN SURFACE, RED BALL DIAMOND AGGREGATE, 5" THICK	0	1590	1590	TON
10	2010-108-Q-0	BATTING CAGE SURFACE, FINE LIMESTONE (IADOT GRADATION NO. 8)	0	40	40	TON
11	4010-108-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, SDR 26 PVC, 8"	649	0	649	LF
12	4010-108-E-0	SANITARY SEWER SERVICE STUB, PVC SDR 23.5, 4"	1	0	1	EA
13	4020-108-A-1	STORM SEWER, TRENCHED, RCP, 15"	42	0	42	LF
14	4020-108-A-1	STORM SEWER, TRENCHED, RCP, 18"	693	0	693	LF
15	4020-108-A-1	STORM SEWER, TRENCHED, RCP, 24"	56	0	56	LF
16	4020-108-A-1	STORM SEWER, TRENCHED, RCP, 36"	180	0	180	LF
17	4020-108-A-1	STORM SEWER, TRENCHED, HDPE DUAL WALL, 6"	36	0	36	LF
18	4020-108-A-1	STORM SEWER, TRENCHED, HDPE DUAL WALL, 12"	26	0	26	LF
19	4020-108-A-1	STORM SEWER, TRENCHED, HDPE DUAL WALL, 15"	156	0	156	LF
20	4020-108-A-1	STORM SEWER, TRENCHED, HDPE DUAL WALL, 18"	844	0	844	LF
21	4020-108-C-0	REMOVAL OF STORM SEWER, 18" RCP	5	0	5	LF
22	4030-108-B-0	PIPE APRON, RCP, 12"	2	0	2	EA
23	4030-108-B-0	PIPE APRON, RCP, 18"	3	0	3	EA
24	4030-108-B-1	PIPE APRON, RCP, 36"	1	0	1	EA
25	4030-108-D-0	PIPE APRON GUARD, 36"	1	0	1	EA
26	4040-108-A-0	SUBDRAIN, HDPE, 2" DIA. PERF.	0	5248	5248	LF
27	4040-108-A-0	SUBDRAIN, HDPE, 4" DIA. PERF.	0	198	198	LF
28	4040-108-A-0	SUBDRAIN, HDPE DUAL WALL, NON PERF, 4" DIA	0	25	25	LF
29	4040-108-A-1	SUBDRAIN, HDPE DUAL WALL, NON PERF, 6" DIA	0	1310	1310	LF
30	4040-108-A-0	SUBDRAIN, HDPE DUAL WALL, 6"	530	0	530	LF
31	4040-108-C-0	SUBDRAIN CLEANOUT, TYPE A-1, 6"	3	0	3	EA
32	5010-108-A-1	WATER MAIN, TRENCHED, DR18 PVC, 6"	756	0	756	LF
33	5010-108-A-1	WATER MAIN, TRENCHED, CLASS 52 DIP, 6", WITH NITRILE GASKETS	80	0	80	LF
34	5010-108-A-1	WATER MAIN, TRENCHED, DR21 PVC, 3"	104	0	104	LF
35	5010-108-C-2	FITTING, MJ DIP	427	0	427	LB
36	5010-108-F-0	CONNECTION TO EXISTING WATER MAIN	1	0	1	EA
37	5010-108-G-0	IRRIGATION DELIVERY SYSTEM FOR 3 FIELDS	0	1	1	LS
38	5010-108-H-0	IRRIGATION SYSTEM - SOFTBALL FIELD	0	1	1	LS
39	5010-108-H-0	IRRIGATION SYSTEM - LITTLE LEAGUE FIELD 1	0	1	1	LS
40	5010-108-H-0	IRRIGATION SYSTEM - LITTLE LEAGUE FIELD 2	0	1	1	LS
41	5020-108-A-0	VALVE, GATE, 3"	1	0	1	EA
42	5020-108-A-0	VALVE, GATE, 6"	4	0	4	EA
43	5020-108-C-0	FIRE HYDRANT ASSEMBLY	3	0	3	EA
44	6010-108-A-0	MANHOLE TYPE SW-301, 48"	37.58	0	37.58	VF
45	6010-108-A-0	MANHOLE TYPE SW-401, 48"	13.29	0	13.29	VF
46	6010-108-A-0	MANHOLE TYPE SW-402, 48"x48"	12.92	0	12.92	VF
47	6010-108-B-0	INTAKE TYPE SW-501	1	0	1	EA
48	6010-108-B-0	INTAKE TYPE SW-507	4	0	4	EA
49	6010-108-B-0	INTAKE TYPE SW-508	2	0	2	EA
50	6010-108-B-0	INTAKE TYPE SW-509	1	0	1	EA
51	6010-108-B-0	INTAKE TYPE NYLOPLAST, 24" W/ H-20 STANDARD GRATE	10	0	10	EA
52	6010-108-H-0	REMOVE INTAKE	1	0	1	EA
53	7010-108-A-0	PAVEMENT, PCC, 6"	5771	0	5771	SY
54	7010-108-A-0	PAVEMENT, PCC, 6" THICK, REINFORCED	0	210	210	SY
55	7010-108-A-0	PAVEMENT, PCC, 8" REINFORCED	193	0	193	SY
56	7010-108-F-0	BEAM CURB, PCC	0	393	393	LF
57	7010-108-I-0	PCC PAVEMENT SAMPLES AND TESTING	1	0	1	LS
58	7030-108-C-1	SHARED USE PATH, PCC, 6" THICK	0	4337	4337	SY
59	7030-108-C-2	SHARED USE PATH, PCC, 8" THICK (NOMINAL) REINFORCED	0	14	14	SY
60	7030-108-E-0	SIDEWALK, PCC, 4" THICK	0	885	885	SY
61	7030-108-G-0	DETECTABLE WARNING	0	104	104	SF
62	7080-108-B-0	ENGINEERING FABRIC (PLAYGROUND)	0	600	600	SY
63	8020-108-C-0	PAINTED PAVEMENT MARKINGS, DURABLE	0	1	1	LS
64	8020-108-G-0	PAINTED SYMBOLS AND LEGENDS	0	6	6	EA
65	8030-108-A-0	SIGN, INSTALL, HANDICAP	0	5	5	EA
66	8030-108-A-0	SIGN, INSTALL, HANDICAP W/ VAN	0	1	1	EA
67	9010-108-A-0	SEEDING, FERTILIZING, AND MULCHING, TYPE 4	12.75	0	12.75	AC
68	9010-108-A-1	CONVENTIONAL SEEDING AND FERTILIZING, TYPE 1 PERMANENT LAWN	0	4.57	4.57	AC

BASE BID CONTINUED						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
69	9010-108-A-1	CONVENTIONAL SEEDING AND FERTILIZING, TYPE 1 BALLFIELD LAWN SEEDING	0	2.37	2.37	AC
70	9010-108-A-1	CONVENTIONAL SEEDING AND FERTILIZING, NO MOW FESCUE	0	0.96	0.96	AC
71	9010-108-A-1	CONVENTIONAL SEEDING AND FERTILIZING, SHORT GRASS PRAIRIE	0	2.05	2.05	AC
72	9010-108-A-1	CONVENTIONAL SEEDING AND FERTILIZING, FLOOD PLAIN	0	0.47	0.47	AC
73	9010-108-B-0	HYDRAULIC MULCHING	0	10.42	10.42	AC
74	9010-108-D-0	WATERING	0	25000	25000	TGAL
75	9010-108-F-0	SPORTSFIELD SOIL PREPARATION	0	1	1	LS
76	9010-108-G-0	SPORTSFIELD GROW IN PLAN	0	1	1	LS
77	9030-108-B-0	PLANTS, TREE, AUTUM BLAZE FREEMAN MAPLE - 3" CAL.	0	9	9	EA
78	9030-108-B-0	PLANTS, TREE, EUROPEAN BLACK ALDER - 6' HT.	0	5	5	EA
79	9030-108-B-0	PLANTS, TREE, ARMSTRONG COLUMNAR MAPLE - 3" CAL.	0	3	3	EA
80	9030-108-B-0	PLANTS, TREE, RIVER BIRCH - 10' HT.	0	10	10	EA
81	9030-108-B-0	PLANTS, TREE, WASHINGTON HAWTHORN - 6' HT.	0	8	8	EA
82	9030-108-B-0	PLANTS, TREE, DAWYCK PURPLE BEECH - 3" CAL.	0	1	1	EA
83	9030-108-B-0	PLANTS, TREE, MAIDENHAIR TREE - 3" CAL.	0	5	5	EA
84	9030-108-B-0	PLANTS, TREE, SKYLINE HONEYLOCUST - 3" CAL.	0	9	9	EA
85	9030-108-B-0	PLANTS, TREE, NORWAY SPRUCE - 6' HT.	0	4	4	EA
86	9030-108-B-0	PLANTS, TREE, LONDON PLANETREE - 3" CAL.	0	1	1	EA
87	9030-108-B-0	PLANTS, TREE, BLACK HILLS SPRUCE - 8' HT.	0	16	16	EA
88	9030-108-B-0	PLANTS, TREE, COLORADO BLUE SPRUCE - 8' HT.	0	1	1	EA
89	9030-108-B-0	PLANTS, TREE, WHITE PINE - 7' HT.	0	5	5	EA
90	9030-108-B-0	PLANTS, TREE, WHITE OAK - 3" CAL.	0	11	11	EA
91	9030-108-B-0	PLANTS, TREE, BUR OAK - 3" CAL.	0	12	12	EA
92	9030-108-B-0	PLANTS, TREE, ACCOLADE ELM - 3" CAL.	0	3	3	EA
93	9030-108-B-0	PLANTS, TREE, BLACK HAW VIBURNUM - 4' HT.	0	8	8	EA
94	9030-108-B-0	PLANTS, SHRUB, HAPPY RETURNS DAYLILY - 1 GAL.	0	75	75	EA
95	9030-108-B-0	PLANTS, SHRUB, GRO-LOW FRAGRANT SUMAC - 18" HT.	0	14	14	EA
96	9030-108-B-0	PLANTS, SHRUB, NEON FLASH SPIREA - 18" HT.	0	78	78	EA
97	9030-108-B-0	PLANTS, SHRUB, MISSION STRAIN ARBORVITAE, 5' HT.	0	48	48	EA
98	9030-108-B-0	PLANTS, SHRUB, ARROWWOOD VIBURNUM - 36" HT.	0	31	31	EA
99	9030-108-F-0	LIVE FASCINE	0	200	200	LF
100	9040-108-A-2	SWPPP, MANAGEMENT	0.5	0.5	1	LS
101	9040-108-E-0	TEMPORARY RECP, TYPE 2	11100	0	11100	SY
102	9040-108-F-1	WATTLES, 9", INSTALLATION, MAINTENANCE	5500	800	6300	LF
103	9040-108-F-2	WATTLES, REMOVAL	0	6300	6300	LF
104	9040-108-J-0	RIP RAP, EROSION STONE W/FABRIC	150	0	150	TON
105	9040-108-N-1	SILT FENCE OR SILT FENCE DITCH CHECK, INSTALLATION	3300	950	4250	LF
106	9040-108-N-2	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF SEDIMENT	0	1500	1500	LF
107	9040-108-N-3	SILT FENCE OR SILT FENCE DITCH CHECK, REMOVAL OF DEVICE	0	4250	4250	LF
108	9040-108-O-2	STABILIZED CONSTRUCTION ENTRANCE	200	0	200	TON
109	9040-108-P-1	DUST CONTROL, WATER	24000	0	24000	SY
110	9040-108-T-1	INLET PROTECTION DEVICE, SURFACE APPLIED, INSTALLATION AND MAINTENANCE	18	0	18	EA
111	9040-108-T-2	INLET PROTECTION DEVICE, REMOVAL	0	18	18	EA
112	9060-108-H-0	FENCING CAP, OUTFIELD FENCE	0	1226	1226	LF
113	9080-108-A-0	CONCRETE STEPS	0	40	40	SF
114	9080-108-B-0	HANDRAIL, ALUMINUM	0	10	10	LF
115	9090-108-A-0	SPORTSFIELD EQUIPMENT - SOFTBALL FIELD	0	1	1	LS
116	9090-108-A-0	SPORTSFIELD EQUIPMENT - LITTLE LEAGUE FIELD 1	0	1	1	LS
117	9090-108-A-0	SPORTSFIELD EQUIPMENT - LITTLE LEAGUE FIELD 2	0	1	1	LS
118	9090-108-B-0	ELECTRONIC SCOREBOARDS	0	3	3	EA
119	9090-108-C-0	BATTING CAGE EQUIPMENT	0	1	1	LS
120	9090-108-D-0	BLEACHERS, ALUMINUM, 15' LONG, 4 ROWS	0	9	9	EA
121	9090-108-E-0	PICKLEBALL COURT EQUIPMENT	0	1	1	LS
122	9090-108-F-0	PICKLE BALL COURT SURFACING	0	1	1	LS
123	9090-108-G-0	PLAYGROUND EQUIPMENT	0	1	1	LS
124	9090-108-H-0	SAFETY SURFACING - 12" DEPTH	0	157	157	CY
125	9090-108-I-0	BIKE RACKS	0	1	1	LS
126	9090-108-J-0	PARK BENCHES	0	6	6	EA
127	9090-108-K-0	TRASH RECEPTACLES	0	9	9	EA
128	9090-108-L-0	FLAG POLE - 30' HT. WITH INTEGRAL LIGHT	0	1	1	EA
129	9090-108-L-0	FLAG POLE - 25' HT.	0	2	2	EA
130	9090-108-M-0	LANDSCAPE BOULDERS - STONE STEPS AND OUTCROPPING	0	24	24	TON
131	9090-108-M-0	LANDSCAPE BOULDERS - SEAT STONES	0	18	18	TON
132	9090-108-M-0	LANDSCAPE BOULDERS - PLAYGROUND STEPPER BOULDERS	0	22	22	TON
133	9100-108-A-0	ELECTRICAL SYSTEM	0	1	1	LS
134	9110-108-A-0	PAVILION BUILDING AND APPURTENANCES	0	1	1	LS
135	11,010-108-A	CONSTRUCTION SURVEY	0.5	0.5	1	LS
136	11,020-108-A	MOBILIZATION	0.5	0.5	1	LS
137	11,050-108-A-0	CONCRETE WASHOUT	0.5	0.5	1	LS

FENCING OPTION A						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
FA1	9060-108-A-0	CHAIN LINK FENCE, ALUMINIZED, 6' TALL (06A)	0	984	984	LF
FA2	9060-108-A-0	CHAIN LINK FENCE, ALUMINIZED, 6' TALL (06B)	0	1126	1126	LF
FA3	9060-108-A-0	CHAIN LINK FENCE, ALUMINIZED, 10' TALL (10A)	0	402	402	LF
FA4	9060-108-A-0	CHAIN LINK FENCE, ALUMINIZED, 20' TALL (20A)	0	180	180	LF
FA5	9060-108-B-0	GATES, CHAIN LINK, ALUMINIZED, 4' WIDE	0	7	7	EA
FA6	9060-108-B-0	GATES, CHAIN LINK, ALUMINIZED, 6' TALL, DOUBLE 6" (12' WIDE)	0	3	3	EA

FENCING OPTION B						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
FB1	9060-108-A-0	CHAIN LINK FENCE, PVC COATED, 6' TALL (06A)	0	984	984	LF
FB2	9060-108-A-0	CHAIN LINK FENCE, PVC COATED, 6' TALL (06B)	0	1126	1126	LF
FB3	9060-108-A-0	CHAIN LINK FENCE, PVC COATED, 10' TALL (10A)	0	402	402	LF
FB4	9060-108-A-0	CHAIN LINK FENCE, PVC COATED, 20' TALL (20B)	0	180	180	LF
FB5	9060-108-B-0	GATES, CHAIN LINK, PVC COATED, 4' WIDE	0	7	7	EA
FB6	9060-108-B-0	GATES, CHAIN LINK, PVC COATED, 6' TALL, DOUBLE 6" (12' WIDE)	0	3	3	EA

FIELD LIGHTING OPTION A						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
LA1	9100-108-B-0	FIELD LIGHTING, HID CONROL SYSTEM AND DISTRIBUTION FOR 3 FIELDS	0	1	1	LS
LA2	9100-108-B-1	FIELD LIGHTING, HID - SOFTBALL FIELD	0	1	1	LS
LA3	9100-108-B-2	FIELD LIGHTING, HID - LITTLE LEAGUE FIELD 1	0	1	1	LS
LA4	9100-108-B-3	FIELD LIGHTING, HID - LITTLE LEAGUE FIELD 2	0	1	1	LS

FIELD LIGHTING OPTION B						
NO.	CODE	DESCRIPTION	QUANTITY			UNIT
			PHASE 1	PHASE 2	TOTAL	
LB1	9100-108-C-0	FIELD LIGHTING, LED CONROL SYSTEM AND DISTRIBUTION FOR 3 FIELDS	0	1	1	LS
LB2	9100-108-C-1	FIELD LIGHTING, LED - SOFTBALL FIELD	0	1	1	LS
LB3	9100-108-C-2	FIELD LIGHTING, LED - LITTLE LEAGUE FIELD 1	0	1		

KINDER MORGAN REQUIREMENTS OF OPERATING WITHIN THE PIPELINE EASEMENT

THE FOLLOWING REQUIREMENTS ARE PROVIDED FROM THE KINDER MORGAN 'GUIDELINES FOR DESIGN AND CONSTRUCTION NEAR KINDER MORGAN HAZARDOUS LIQUID OPERATED FACILITIES' DOCUMENT. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL COMPLY WITH THESE REQUIREMENTS WHILE OPERATING WITHIN THE RESPECTIVE PIPELINE EASEMENT. DESIGN INFORMATION HAS BEEN REMOVED AS IT DOES NOT APPLY TO THE CONSTRUCTION PHASE.

Name of Company: Kinder Morgan Cochin (KM)

The list of design, construction and contractor requirements, including but not limited to the following, for the design and installation of foreign utilities or improvements on KM right-of-way (ROW) are not intended nor do they waive or modify any rights KM may have under existing easements or ROW agreements. Reference existing easements and amendments for additional requirements. This list of requirements is applicable for KM facilities on easements only. Encroachments on fee property should be referred to the ROW Department

CONSTRUCTION

- Contractors shall be advised of KM's requirements and be contractually obligated to comply.
- The continued integrity of KM's pipelines and the safety of all individuals in the area of proposed work near KM's facilities are of the utmost importance. Therefore, contractor must meet with KM representatives prior to construction to provide and receive notification listings for appropriate area operations and emergency personnel. KM's on-site representative will require discontinuation of any work that, in his opinion, endangers the operations or safety of personnel, pipelines or facilities.
- The Contractor must expose all KM pipelines prior to crossing to determine the exact alignment and depth of the lines. A KM representative must be present. In the event of parallel lines, only one pipeline can be exposed at a time.
- KM will not allow pipelines to remain exposed overnight without consent of KM designated representative. Contractor may be required to backfill pipelines at the end of each day.
- A KM representative shall do all line locating. A KM representative shall be present for hydraulic excavation. The use of probing rods for pipeline locating shall be performed by KM representatives only, to prevent unnecessary damage to the pipeline coating.
- Notification shall be given to KM at least 72 hours before start of construction. A schedule of activities for the duration of the project must be made available at that time to facilitate the scheduling of Kinder Morgan, Inc.'s work site representative. Any Contractor schedule changes shall be provided to Kinder Morgan, Inc. immediately.
- Heavy equipment will not be allowed to operate directly over KM pipelines or in KM ROW unless written approval is obtained from Kinder Morgan Cochin (Company). Heavy equipment shall only be allowed to cross KM pipelines at locations designated by Kinder Morgan, Inc. Contractor shall comply with all precautionary measures required by KM to protect its pipelines. When inclement weather exists, provisions must be made to compensate for soil displacement due to subsidence of tires. Equipment excavating within ten (10) feet of KM Pipelines will have a plate guard installed over the teeth to protect the pipeline.
- Excavating or grading which might result in erosion or which could render the KM ROW inaccessible shall not be permitted unless the contractor/developer/owner agrees to restore the area to its original condition and provide protection to KM's facility.
- A KM representative shall be on-site to observe any construction activities within ten (10) feet of a KM pipeline or aboveground appurtenance. The contractor shall not work within this distance without a KM representative being on site. Only hand excavation shall be permitted within two (2) feet of KM pipelines, valves and fittings unless State requirements are more stringent. However, proceed with extreme caution when within three (3) feet of the pipe.
- A KM representative will monitor construction activity within 25 feet of KM facilities during and after the activities to verify the integrity of the pipeline and to ensure the scope and conditions agreed to have not changed. Monitoring means to conduct site inspections on a pre-determined frequency based on items such as: scope of work, duration of expected excavator work, type of equipment, potential impact on pipeline, complexity of work and/or number of excavators involved.
- Ripping is only allowed when the position of the pipe is known and not within ten (10) feet of KM facility unless company representative is present.
- Temporary support of any exposed KM pipeline by Contractor may be necessary if required by KM's on-site representative. Backfill below the exposed lines and 12" above the lines shall be replaced with sand or other selected material as approved by KM's on-site representative and thoroughly compacted in 12" lifts to 95% of standard proctor dry density minimum or as approved by KM's on-site representative. This is to adequately protect against stresses that may be caused by the settling of the pipeline.
- No blasting shall be allowed within 1000 feet of KM's facilities unless blasting notification is given to KM including complete Blasting Plan Data. A pre-blast meeting shall be conducted by the organization responsible for blasting.
- KM shall be indemnified and held harmless from any loss, cost of liability for personal injuries received, death caused or property damage suffered or sustained by any person resulting from any blasting operations undertaken within 500 feet of its facilities. The organization responsible for blasting shall be liable for any and all damages caused to KM's facilities as a result of their activities whether or not KM representatives are present. KM shall have a signed and executed Blasting Indemnification Agreement before authorized permission to blast can be given.
- No blasting shall be allowed within 300 feet of KM's facilities unless blasting notification is given to KM a minimum of one week before blasting. (note: covered above) KM shall review and analyze the blasting methods. A written blasting plan shall be provided by the organization responsible for blasting and agreed to in writing by KM in addition to meeting requirements for 500' and 1000' being met above. A written emergency plan shall be provided by the organization responsible for blasting. (note: covered above)
- Any contact with any KM facility, pipeline, valve set, etc. shall be reported immediately to KM. If repairs to the pipe are necessary, they will be made and inspected before the section is re-coated and the line is back-filled.
- KM personnel shall install all test leads on KM facilities.
- Burning of trash, brush, etc. is not permitted within the KM ROW.

INSURANCE REQUIREMENTS

- All contractors, and their subcontractors, working on Company easements shall maintain the following types of insurance policies and minimum limits of coverage. All insurance certificates carried by Contractor and Grantee shall include the following statement: "Kinder Morgan and its affiliated or subsidiary companies are named as additional insured on all above policies (except Worker's Compensation) and waiver of subrogation in favor of Kinder Morgan and its affiliated or subsidiary companies, their respective directors, officers, agents and employees applies as required by written contract." Contractor shall furnish Certificates of Insurance evidencing insurance coverage prior to commencement of work and shall provide thirty (30) days notice prior to the termination or cancellation of any policy.
1. Statutory Coverage Workers' Compensation Insurance in accordance with the laws of the states where the work is to be performed. If Contractor performs work on the adjacent on navigable waterways Contractor shall furnish a certificate of insurance showing compliance with the provisions of the Federal Longshoreman's and Harbor Workers' Compensation Law.
 2. Employer's Liability Insurance, with limits of not less than \$1,000,000 per occurrence and \$1,000,000 disease each employee.
 3. Commercial General Liability Insurance with a combined single limit of not less than \$2,000,000 per occurrence and in the aggregate. All policies shall include coverage for blanket contractual liability assumed.
 4. Comprehensive Automobile Liability Insurance with a combined single limit of not less than \$1,000,000. If necessary, the policy shall be endorsed to provide contractual liability coverage.
 5. If necessary Comprehensive Aircraft Liability Insurance with combined bodily injury, including passengers, and property damage liability single limits of not less than \$5,000,000 each occurrence.
 6. Contractor's Pollution Liability Insurance this coverage shall be maintained in force for the full period of this agreement with available limits of not less than \$2,000,000 per occurrence.
 7. Pollution Legal Liability Insurance this coverage must be maintained in a minimum amount of \$5,000,000 per occurrence.

ENTERPRISE PRODUCTS REQUIREMENTS OF OPERATING WITHIN THE PIPELINE EASEMENT

THE FOLLOWING REQUIREMENTS ARE PROVIDED FROM THE ENTERPRISE PRODUCTS 'ENCROACHMENT GUIDELINES' DOCUMENT AND ARE ONLY A PORTION OF WHAT IS REQUIRED WHILE WORKING WITHIN THE PIPELINE EASEMENT. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL COMPLY WITH THESE REQUIREMENTS WHILE OPERATING WITHIN THE RESPECTIVE PIPELINE EASEMENT. THE PDF FORMAT OF THE ENCROACHMENT GUIDELINES DOCUMENT SHALL BE MADE AVAILABLE UPON REQUEST.

General Excavation Guidelines

- Always make a One-Call prior to performing any excavation activities. Dial 811 or go to www.call811.com.
- Do not perform any excavation activities on Enterprise's rights-of-way without approval from Enterprise. Enterprise will review your plans for excavation within Enterprise's rights-of-way, locate and mark the pipeline assets (if necessary) and an Enterprise representative will be on-site to monitor the excavation activity.
- No heavy equipment is allowed to work directly over the pipeline. The right-of-way boundary should be marked with temporary fencing or white line to assist the operator with positioning heavy equipment.
- All mechanical digging equipment must dig parallel to the pipelines and have the teeth removed or barred with a plate welded across the bucket. An Enterprise representative has the authority to suspend excavation activities if an equipment operator appears to be unqualified or equipment maintenance is not in accordance with applicable regulations.

An Enterprise representative has the authority to suspend excavation activities if an equipment operator appears to be unqualified or equipment maintenance is not in accordance with applicable regulations.

Construction Equipment & Large Vehicle Crossings

- Construction equipment and large vehicles crossing the pipeline easement may present a risk of damage to underground utilities. Therefore, Enterprise will perform stress analysis to ensure that the proposed use of construction equipment or large vehicles will neither damage the pipeline nor present a safety hazard. When submitting a request for heavy equipment crossing, please include the following for any vehicle proposing to cross Enterprise's rights-of-way:
 1. Make/model
 2. Size
 3. Weight
 4. Maximum axle load
- Enterprise will work diligently to perform its analysis, but typically requires a minimum of three working days to complete the analysis.
- Construction equipment should only cross the pipeline at Enterprise-designated locations. Enterprise will seek recovery for any and all damage caused by unapproved crossings.

Insurance Requirements

A. Payor agrees to procure and maintain, and shall require all Contractors to procure and maintain, insurance coverages in the kinds and amounts, and with deductibles reasonably acceptable as set forth below:

- (i) Worker's Compensation Insurance, including occupational disease coverage, in accordance with the benefits afforded by the statutory worker's compensation acts applicable to the state, territory or district of hire, supervision or place of accident.
- (ii) Employer's Liability Insurance in an amount not less than \$1,000,000 each accident, \$1,000,000 disease each employee and \$1,000,000 disease policy limit.
- (iii) Commercial General Liability Insurance with a single limit of liability for bodily injury or property damage of \$1,000,000 per occurrence (\$2,000,000 Aggregate) on ISO Coverage Form CG 00 01 (or equivalent), such coverage to include products/completed operations liability, premises/operations, independent contractors, broad form bodily injury and property damage, personal injury, explosion, blanket contractual liability and sudden and accidental pollution liability.
- (iv) Business Automobile Liability Insurance covering all owned, non-owned, leased, rented, and hired motor vehicles, including coverage for loading and unloading, used in the performance of this Agreement, with limits of not less than \$1,000,000 combined single limit.
- (v) Excess Liability Insurance with limits of not less than \$5,000,000 per occurrence and in the aggregate providing additional limits of insurance to the coverage described in subsections ii, iii and iv above.

B. All required insurance shall:

- (i) except Worker's Compensation or Employer's Liability insurance, name Enterprise, its directors, employees, agents and representatives (collectively, the "Enterprise Indemnified Parties") as an additional insured;
- (ii) not contain exclusions for claims arising out of the negligence of any Enterprise Indemnified Parties as an additional insured; and
- (iii) be endorsed as primary and non-contributing to any other insurance policies carried by Enterprise with respect to Payor's operations.

C. Except where prohibited by law, all policies of insurance pertaining to this Agreement which are procured, held or maintained by Payor or any Contractor, whether required by this Agreement or not, shall be endorsed to provide that the underwriters or insurers waive any and all rights of subrogation against the Enterprise Indemnified Parties.

D. Payor shall:

- (i) simultaneously with its execution of this Agreement, provide to Enterprise Certificates of Insurance for itself and each of its Contractors on a standard ACORD form signed by an authorized representative evidencing the coverages, limits, endorsements and extensions required herein for Enterprise and each entity required to be named as an additional insured herein; and
- (ii) deliver, or require to be delivered, to Enterprise a renewal certificate not less than ten (10) days before policy expiration.

PIPELINE CONTACTS:

KINDER MORGAN
 ADMINISTRATIVE AND FIELD
 DAVID LENSING
 PH: 641.330.3055
 EMAIL: david_lensing@kindermorgan.com

ENTERPRISE PRODUCTS
 ADMINISTRATIVE
 JAY JOHNSON - ENCROACHMENT ANALYST
 PH: 281.877.3373
 EMAIL: jarjohnson@eprod.com
 FIELD
 BRIAN MUELLER - IOWA CITY OPERATIONS
 OFFICE: 319.341.4615
 CELL: 319.430.6979
 EMAIL: bmueller@eprod.com



ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 CITY OF WEST BRANCH
 110 NORTH POPLAR STREET
 WEST BRANCH, IOWA 52358

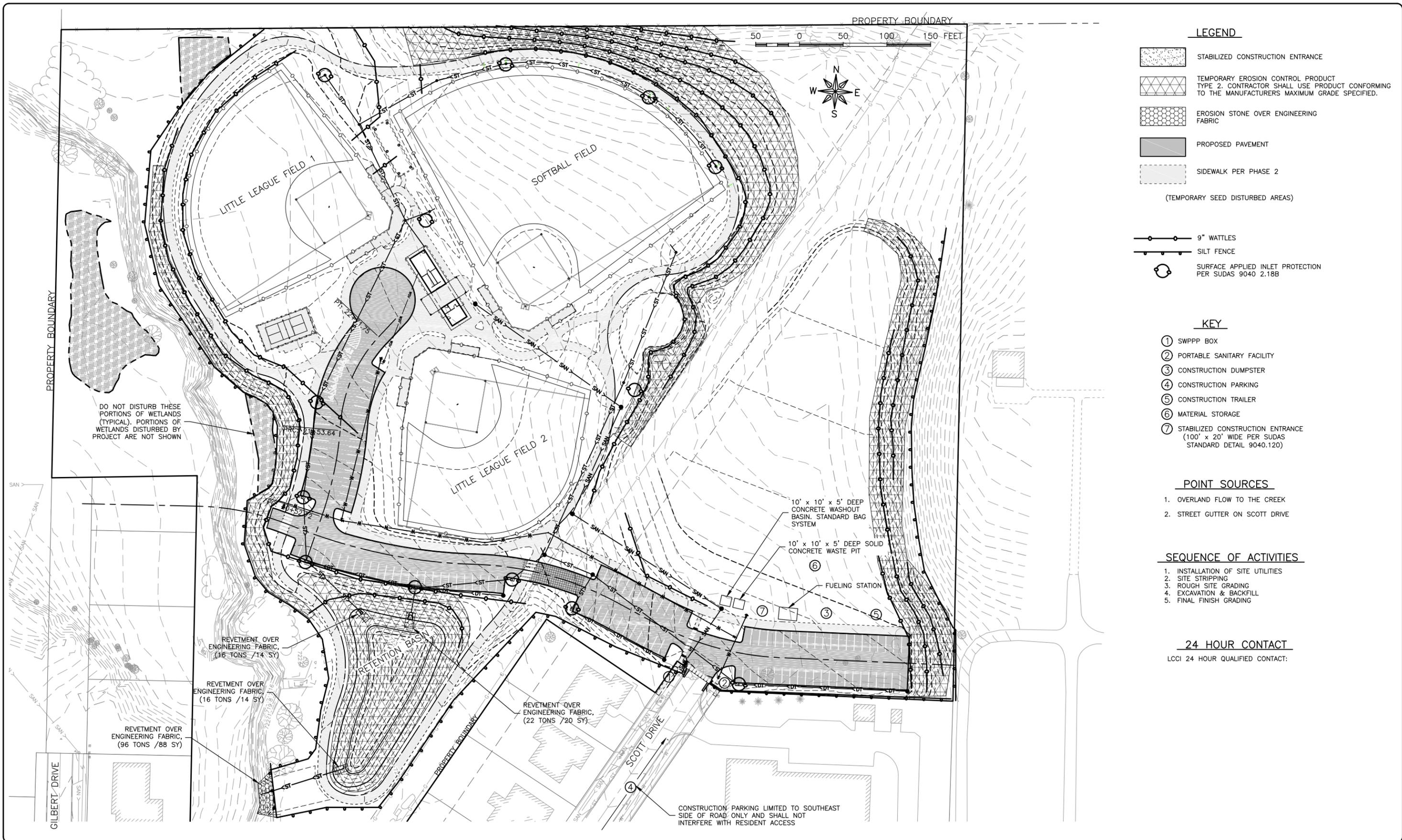
PROJECT AND LOCATION:
 CUBBY PARK IMPROVEMENTS -
 PHASE 1
 WEST BRANCH, IOWA

DRAWN BY: AJB
 APPROVED BY: NPK
 DATE: 11-14-2017
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 PIPELINE REQUIRMENTS
 SET TYPE: FOR BID
 6:\CD\16-072\16-072 design.dwg, C.02

JOB NUMBER:
 16-072
 SHEET NUMBER:
 C.02



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF WEST BRANCH
110 NORTH POPLAR STREET
WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:
CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SWPPP MAP - PAVING

SET TYPE:
G:\(3D)\16-072\16-072 design.dwg, C:05

FOR BID

JOB NUMBER:
16-072

SHEET NUMBER:
C.05

STORM STRUCTURE TABLE			
NO.	RIM	INV	STRUCTURE
INTK 1	728.37	OUT 716.61 S (36") IN 716.71 E (36") OUT 725.37 W (6")	SW-508
INTK 2	729.75	OUT 717.25 W (36") IN 717.35 NE (36")	SW-508
STMH 3	730.51	OUT 717.58 SW (36") IN 724.83 N (18") IN 718.15 E (24") IN 727.53 NW (6")	SW-402, 48" X 48"
STMH 4	732.27	OUT 718.71 W (24") IN 726.29 SE (18") IN 726.29 SW (15")	SW-401, 48" DIA.
INTK 5	737.13	OUT 732.63 NW (18") IN 734.13 E (6")	SW-509
INTK 6	731.37	OUT 726.60 NE (15")	SW-507
INTK 7	730.50	OUT 725.98 S (18") IN 726.08 N (15")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 7-2	731.37	OUT 727.12 S (15") IN 728.05 NW (6")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 8	727.27	OUT 719.80 SE (18") IN 719.90 N (18") IN 723.27 E (6")	SW-507
INTK 9	728.04	OUT 720.31 S (18") IN 720.41 N (18")	SW-507
INTK 10	730.65	OUT 721.49 S (18") IN 721.59 NE (18")	SW-501
INTK 11	730.50	OUT 722.74 SW (18") IN 722.84 NW (18") IN 726.32 NE (12")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 11-2	730.72	OUT 726.62 SW (12") IN 727.18 NE (6")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 12	729.84	OUT 723.64 SE (18") IN 723.74 NW (18") IN 723.74 NE (18")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 13	728.55	OUT 724.12 SE (18") IN 726.85 SW (6")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 14	731.94	OUT 724.77 SW (18") IN 725.05 E (18")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 15	732.12	OUT 725.62 W (18") IN 725.72 E (18")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 16	732.10	OUT 726.92 NW (18") IN 727.02 SE (18")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 17	731.80	OUT 727.80 NW (18")	24" DIA NYLOPLAST W/ H20 STANDARD GRATE
INTK 18	735.01	OUT 726.67 SW (18")	SW-507

STORM PIPE TABLE				
PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DP1	36"	32'	1.00%	RCP
DP2	36"	107'	0.50%	RCP
DP3	36"	41'	0.50%	RCP
DP4	24"	56'	0.94%	RCP
DP5	18"	203'	3.10%	RCP
DP6	15"	42'	0.70%	RCP
DP7	18"	213'	0.53%	HDPE DUAL WALL
DP7-2	15"	156'	0.65%	HDPE DUAL WALL
DP8	18"	88'	1.60%	RCP
DP9	18"	70'	0.57%	RCP
DP10	18"	105'	1.01%	RCP
DP11	18"	227'	0.50%	RCP
DP11-2	12"	26'	1.00%	HDPE DUAL WALL
DP12	18"	118'	0.66%	HDPE DUAL WALL
DP13	18"	64'	0.56%	HDPE DUAL WALL
DP14	18"	98'	1.01%	HDPE DUAL WALL
DP15	18"	77'	0.70%	HDPE DUAL WALL
DP16	18"	167'	0.70%	HDPE DUAL WALL
DP17	18"	107'	0.70%	HDPE DUAL WALL
DPTILE 1	6"	189'	1.00%	HDPE DUAL WALL TILE
DPTILE 2	6"	125'	1.66%	HDPE DUAL WALL TILE

SANITARY STRUCTURE TABLE			
NO.	RIM	INV	STRUCTURE
S1	737.94	(OUT) 722.94 SW (8") (IN) 723.04 NW (8")	SW-301, TYPE A CASTING
S2	731.41	(OUT) 723.85 SE (8") (IN) 723.95 N (8")	SW-301, TYPE A CASTING
S3	731.92	(OUT) 724.49 S (8") (IN) 724.59 NW (8")	SW-301, TYPE A CASTING
S4	733.04	(OUT) 725.41 SE (8")	SW-301, TYPE A CASTING

SANITARY PIPE TABLE				
PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
SP1	8"	109'	0.40%	PVC PIPE
SP2	8"	202'	0.40%	SDR 26
SP3	8"	134'	0.40%	SDR 26
SP4	8"	204'	0.40%	SDR-26

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF WEST BRANCH
110 NORTH POPLAR STREET
WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:

CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

TABULATIONS

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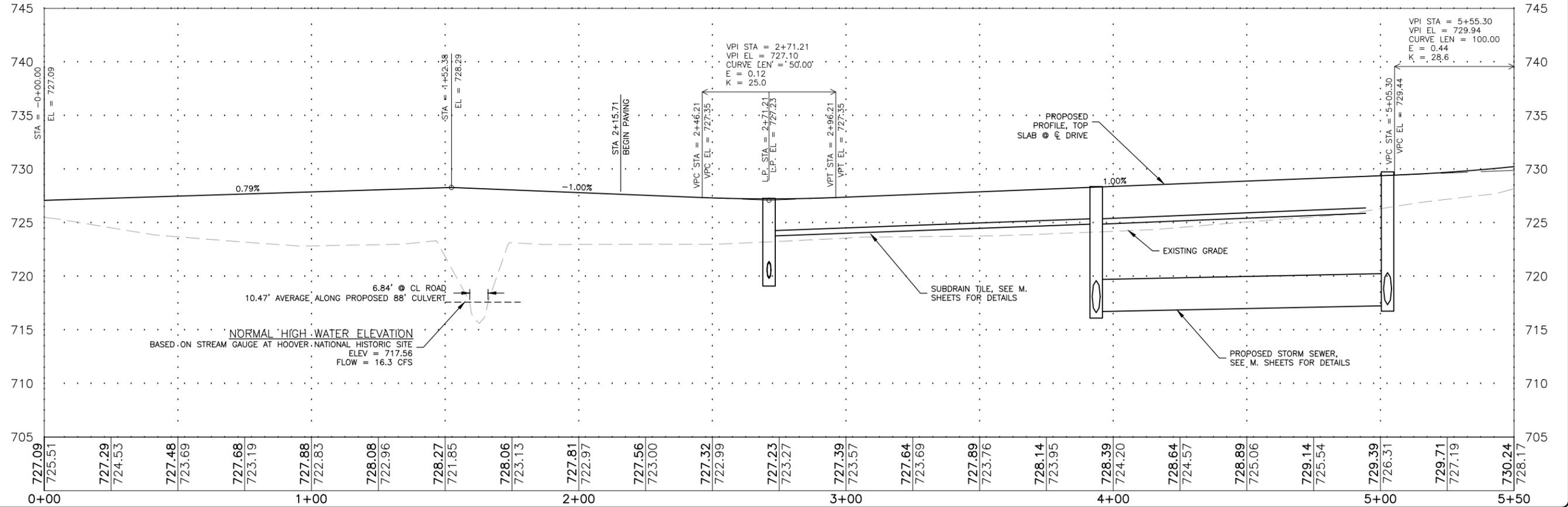
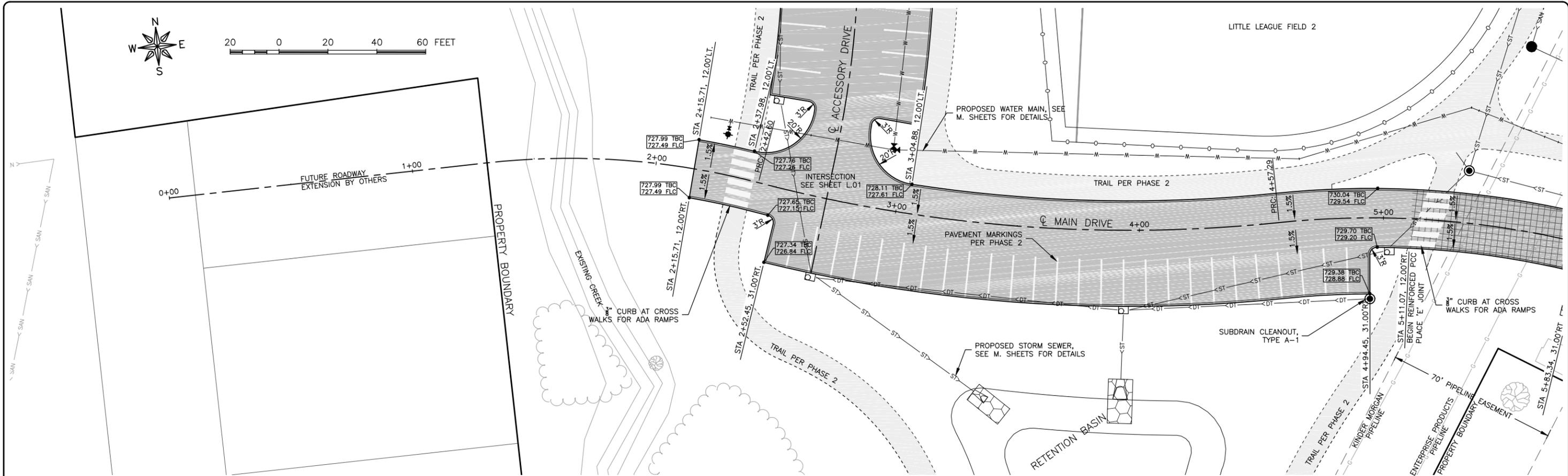
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C.06



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110 NORTH POPLAR STREET
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DRAWN BY: AJB
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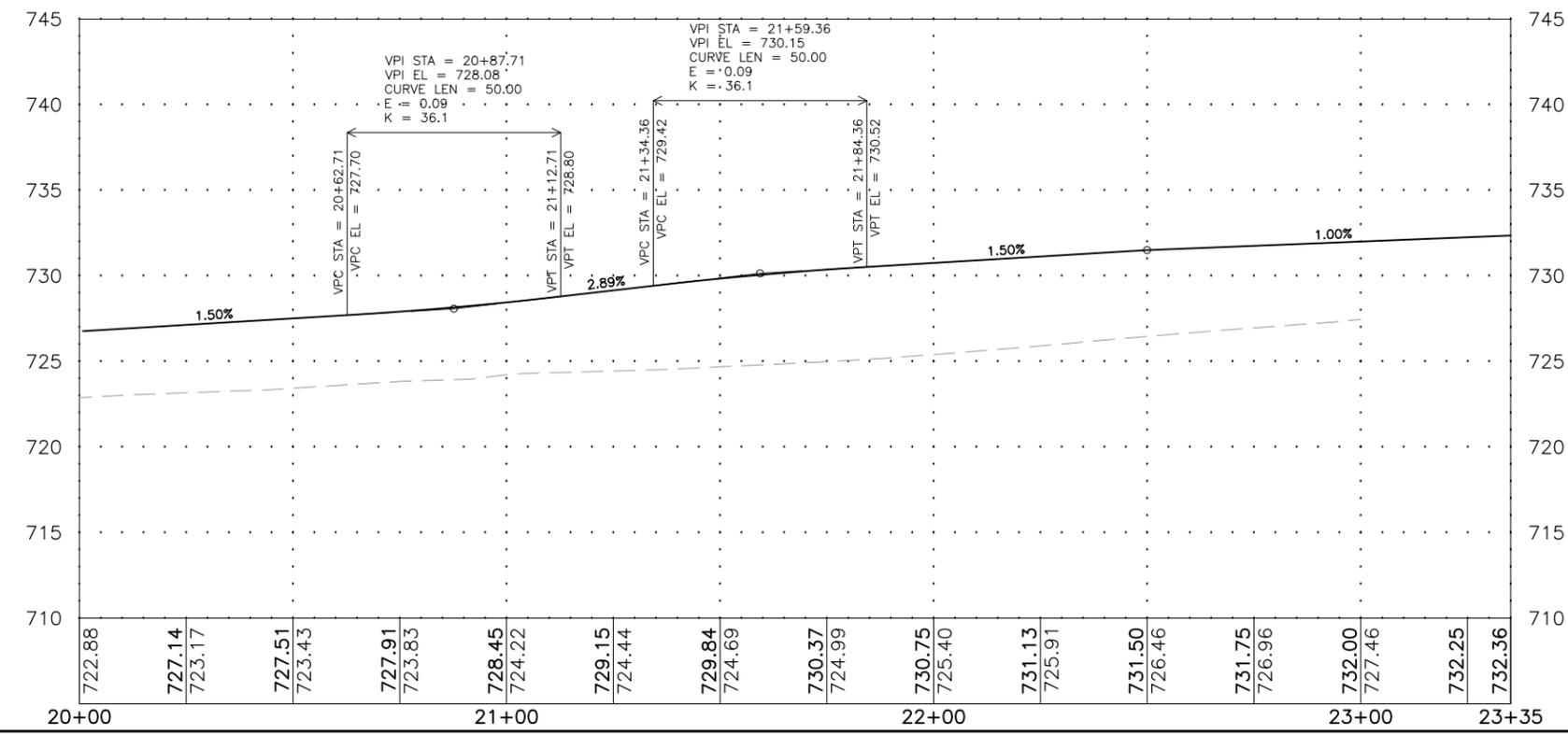
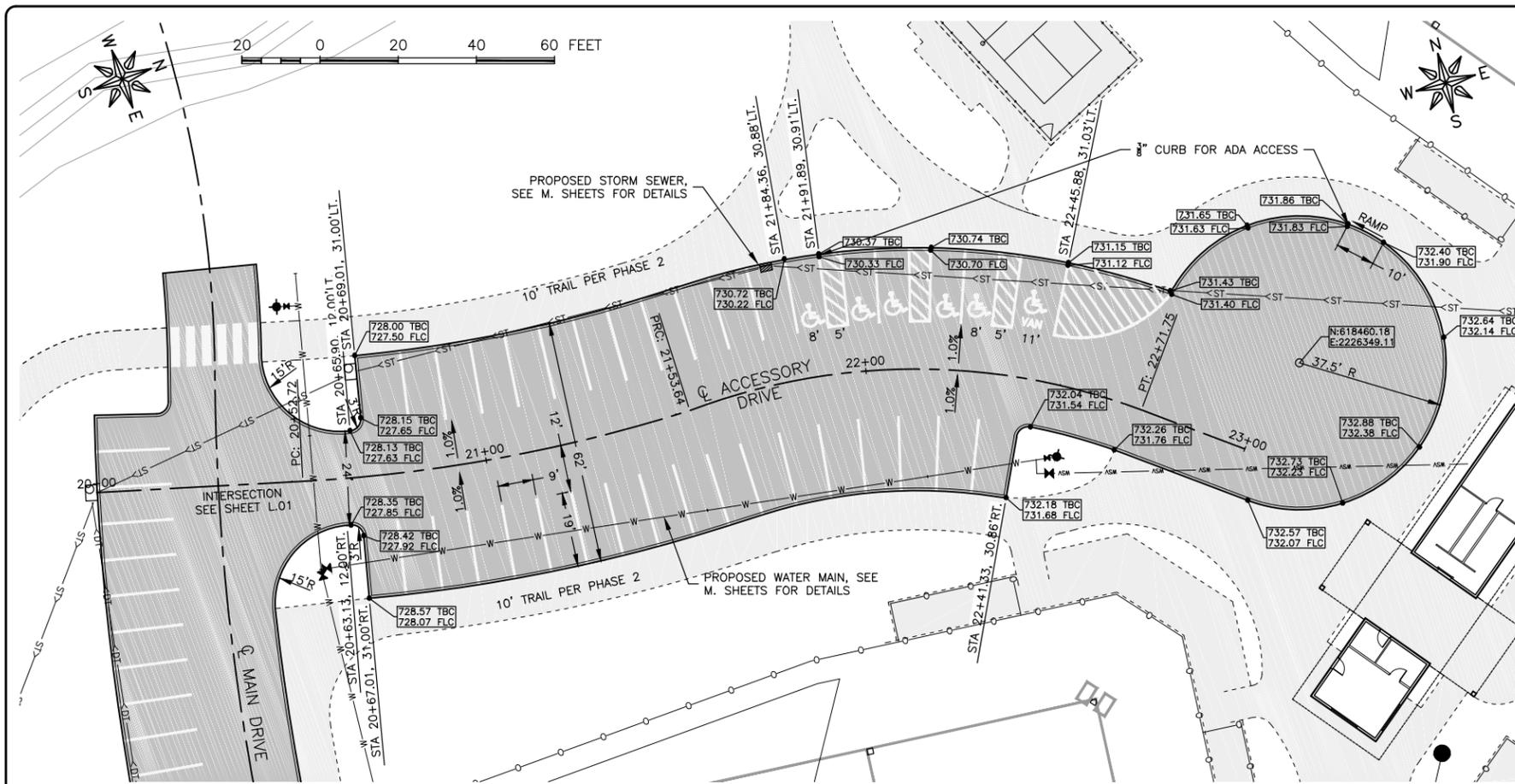
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MAIN DRIVE AND PARKING PLAN AND
PROFILE

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FOR BID

JOB NUMBER:
16-072

SHEET NUMBER:
D.01



CUL-DE-SAC QUANTITIES

LOCATION		PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(SY)	(TON)
ACCESSORY DRIVE	22+41.33	661	250

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ILLINOIS
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WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:
CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ACCESSORY DRIVE AND PARKING PLAN AND
PROFILE

SET TYPE: FOR BID

JOB NUMBER:
16-072

SHEET NUMBER:
D.03

MAIN DRIVE ALIGNMENT									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	0+00.00	618213.19	2226016.30	130.91	N88° 43' 11"E				
C1	1+30.91	618216.12	2226147.18	111.69	S80° 49' 47"E	111.07	306.17	020° 54' 04"	56.47
C2	2+42.60	618198.41	2226256.83	214.69	S80° 37' 47"E	213.54	600.00	020° 30' 04"	108.50
C3	4+57.29	618163.65	2226467.53	170.47	S77° 30' 11"E	168.92	365.06	026° 45' 17"	86.82
L2	6+27.75	618127.09	2226632.45	48.56	S64° 07' 33"E				
C4	6+76.31	618105.90	2226676.14	150.24	S77° 04' 05"E	148.96	332.55	025° 53' 04"	76.42
L3	8+26.55	618072.57	2226821.32	199.40	N89° 59' 24"E				

ACCESSORY DRIVE ALIGNMENT									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	20+00.00	618159.73	2226274.98	52.72	N16° 53' 19"E				
C1	20+52.72	618210.18	2226290.29	100.92	N09° 39' 39"E	100.65	400.00	014° 27' 19"	50.73
C2	21+53.64	618309.40	2226307.18	118.11	N19° 55' 02"E	115.58	164.21	041° 12' 42"	61.74
L2	22+71.75	618418.07	2226346.56	28.25	N40° 39' 09"E				

WATER MAIN 1									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	400+00.00	618031.01	2226742.07	16.96	N32° 18' 54"E				
L2	400+16.96	618045.34	2226751.13	100.00	N21° 50' 03"E				

WATER MAIN 2									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	450+00.00	618092.87	2226770.18	238.10	N63° 19' 53"W				
L2	452+38.10	618199.74	2226557.41	8.29	N63° 19' 53"W				
L3	452+46.39	618203.46	2226550.00	73.48	S78° 30' 45"W				
L4	453+19.87	618188.82	2226477.99	165.95	N83° 44' 44"W				
L5	454+85.82	618206.90	2226313.02	114.18	N74° 58' 58"W				

WATER MAIN 3									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	480+00.00	618206.90	2226313.02	190.43	N11° 18' 54"E				

STORM SEWER 1									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	100+00.00	618086.65	2226395.18	48.89	N06° 59' 43"E				
L2	100+48.89	618135.17	2226401.14	111.34	N82° 33' 23"E				
L3	101+60.22	618149.60	2226511.54	45.26	N51° 15' 31"E				
L4	102+05.48	618177.92	2226546.84	59.54	S70° 15' 33"E				
L5	102+65.02	618157.81	2226602.88	207.87	S55° 59' 45"E				
L6	104+72.89	618041.56	2226775.20	10.77	N89° 59' 24"E				

STORM SEWER 2									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	150+00.00	618149.60	2226511.54	45.26	N51° 15' 31"E				
L2	150+45.26	618177.92	2226546.84	216.33	N22° 14' 50"E				
L3	152+61.59	618378.14	2226628.74	188.41	N19° 26' 43"E				

STORM SEWER 3									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	200+00.00	618089.98	2226355.59	106.62	N49° 06' 10"W				
L2	201+06.62	618159.79	2226275.00	73.14	N05° 02' 15"W				
L3	201+79.76	618232.64	2226268.57	108.23	N05° 15' 22"E				
L4	202+87.99	618340.42	2226278.49	231.08	N23° 38' 45"E				
L5	205+19.07	618552.09	2226371.17	121.52	N28° 15' 40"W				
L6	206+40.59	618659.13	2226313.63	68.66	N37° 11' 56"W				

STORM SEWER 4									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	210+00.00	618659.13	2226313.63	102.00	N58° 07' 34"E				
L2	211+02.00	618712.99	2226400.25	81.42	N73° 47' 36"E				
C1	211+83.42	618735.71	2226478.43	171.30	S79° 24' 08"E	167.86	245.86	039° 55' 16"	89.29
C2	213+54.72	618704.84	2226643.43	105.01	S47° 12' 19"E	104.21	245.86	024° 28' 20"	53.32
L3	214+59.73	618634.04	2226719.90	42.84	S34° 58' 09"E				

SANITARY SEWER 1									
Number	STATION	NORTHING	EASTING	LENGTH	CHORD	CH LENGTH	RADIUS	DELTA	TANGENT
L1	300+00.00	618015.87	2226682.74	129.46	N32° 12' 58"E				
L2	301+29.46	618125.40	2226751.76	201.97	N60° 06' 44"W				
L3	303+31.43	618226.04	2226576.65	133.95	N22° 02' 03"E				
L4	304+65.38	618350.21	2226626.90	203.98	N57° 18' 09"W				
L5	306+69.36	618460.40	2226455.24	232.71	N31° 26' 02"W				
L6	309+02.07	618658.96	2226333.88	109.97	N06° 31' 00"W				



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PROJECT AND LOCATION:
CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

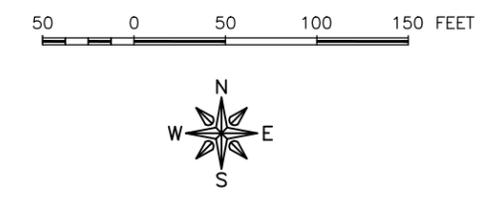
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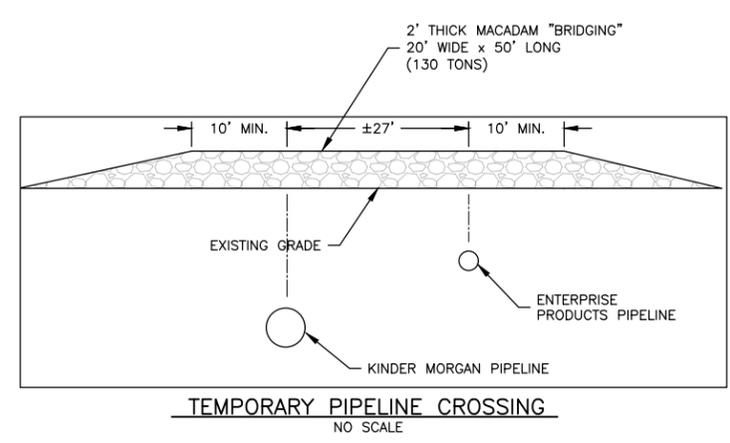
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JOB NUMBER:
16-072

SHEET NUMBER:
G.01



- GENERAL NOTES:**
- BOTH LITTLE LEAGUE FIELDS AND THE SOFTBALL FIELDS SHALL BE GRADED AND TOPSOIL PLACED TO FINISHED GRADE FOR FINAL PREPARATION PER PHASE 2.
- PIPELINE NOTES:**
- A 70" PIPELINE EASEMENT CROSSES THIS SITE WITH RIGHTS TO KINDER MORGAN AND ENTERPRISE PRODUCTS. SEE ADDITIONAL PIPELINE RIGHTS AND CONTACT INFORMATION ON SHEET C.02.
- VEHICLES & CONSTRUCTION EQUIPMENT SHALL ONLY CROSS THE EASEMENT AT THE TEMPORARY PIPELINE CROSSING AT THE MAIN DRIVE.
 - CONTRACTOR SHALL CONSTRUCT A CROSSING OVER THE PIPELINE OF 2' THICK MACADAM TO BRIDGE THE LOADS OVER THE PIPELINES. CONTRACTOR SHALL MAINTAIN THIS CROSSING THROUGH THE DURATION OF CONSTRUCTION UNTIL FINAL PREPARATION FOR PAVING.
 - ANY EXCAVATION CROSSING THE PIPELINE REQUIRES A STANDBY OF THE RESPECTIVE PIPELINE.



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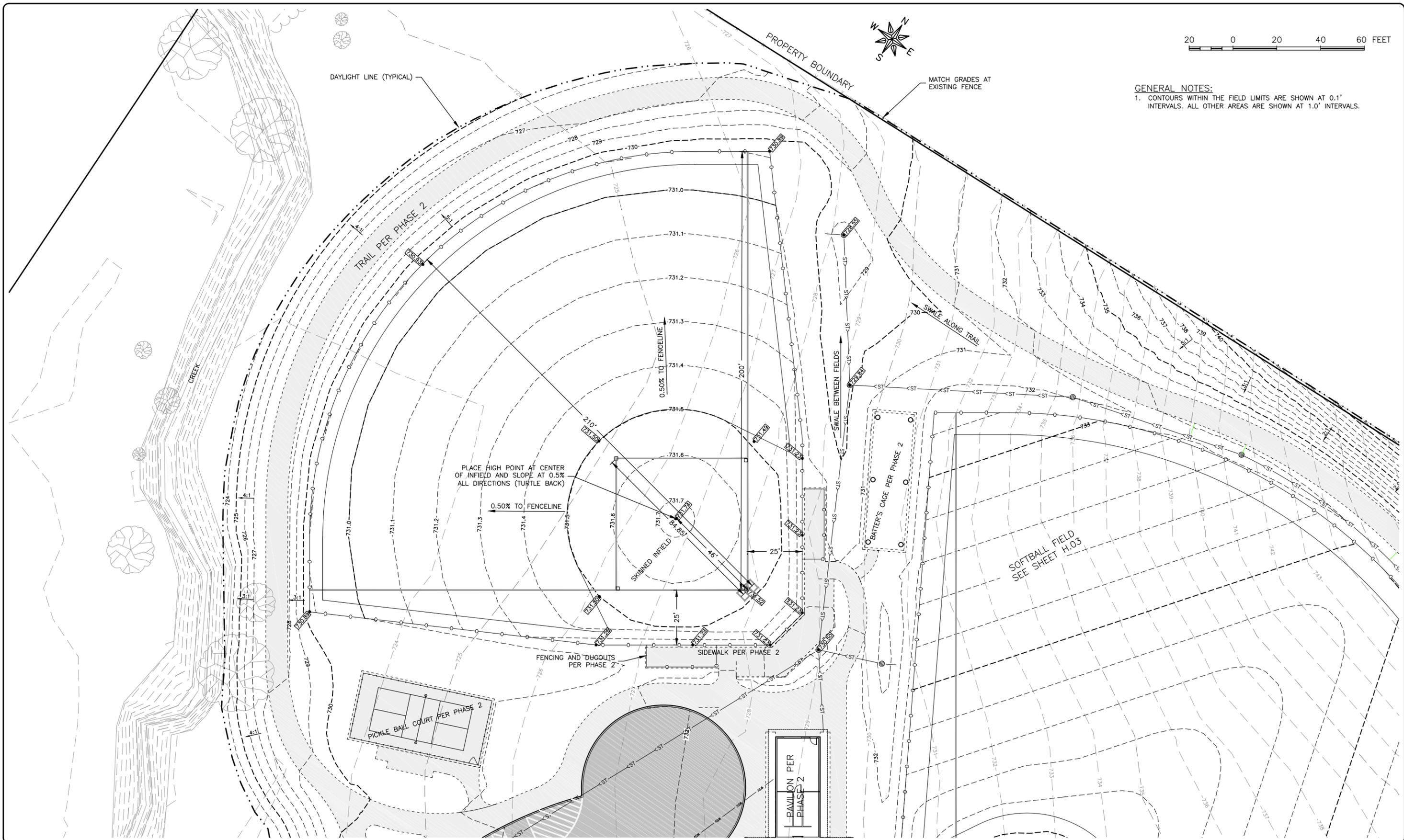
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FOR BID

JOB NUMBER:
16-072

SHEET NUMBER:
H.01



GENERAL NOTES:
 1. CONTOURS WITHIN THE FIELD LIMITS ARE SHOWN AT 0.1' INTERVALS. ALL OTHER AREAS ARE SHOWN AT 1.0' INTERVALS.

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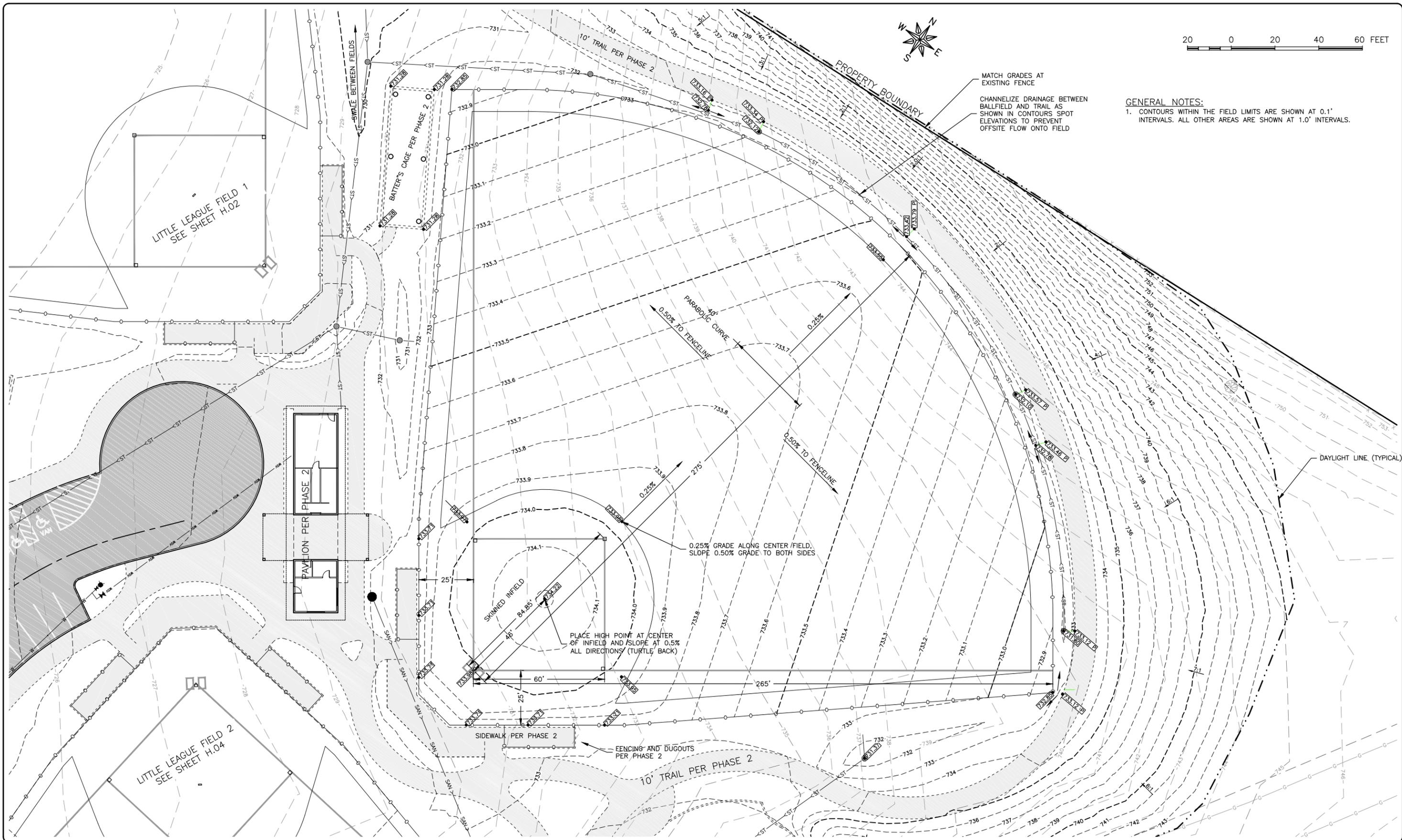
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 CUBBY PARK IMPROVEMENTS -
 PHASE 1
 WEST BRANCH, IOWA

DRAWN BY: AJB
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 DATE: 11-14-2017
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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 SITE GRADING
 SET TYPE:
 FOR BID

JOB NUMBER:
 16-072
 SHEET NUMBER:
 H.02



GENERAL NOTES:
 1. CONTOURS WITHIN THE FIELD LIMITS ARE SHOWN AT 0.1' INTERVALS. ALL OTHER AREAS ARE SHOWN AT 1.0' INTERVALS.

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PROJECT AND LOCATION:
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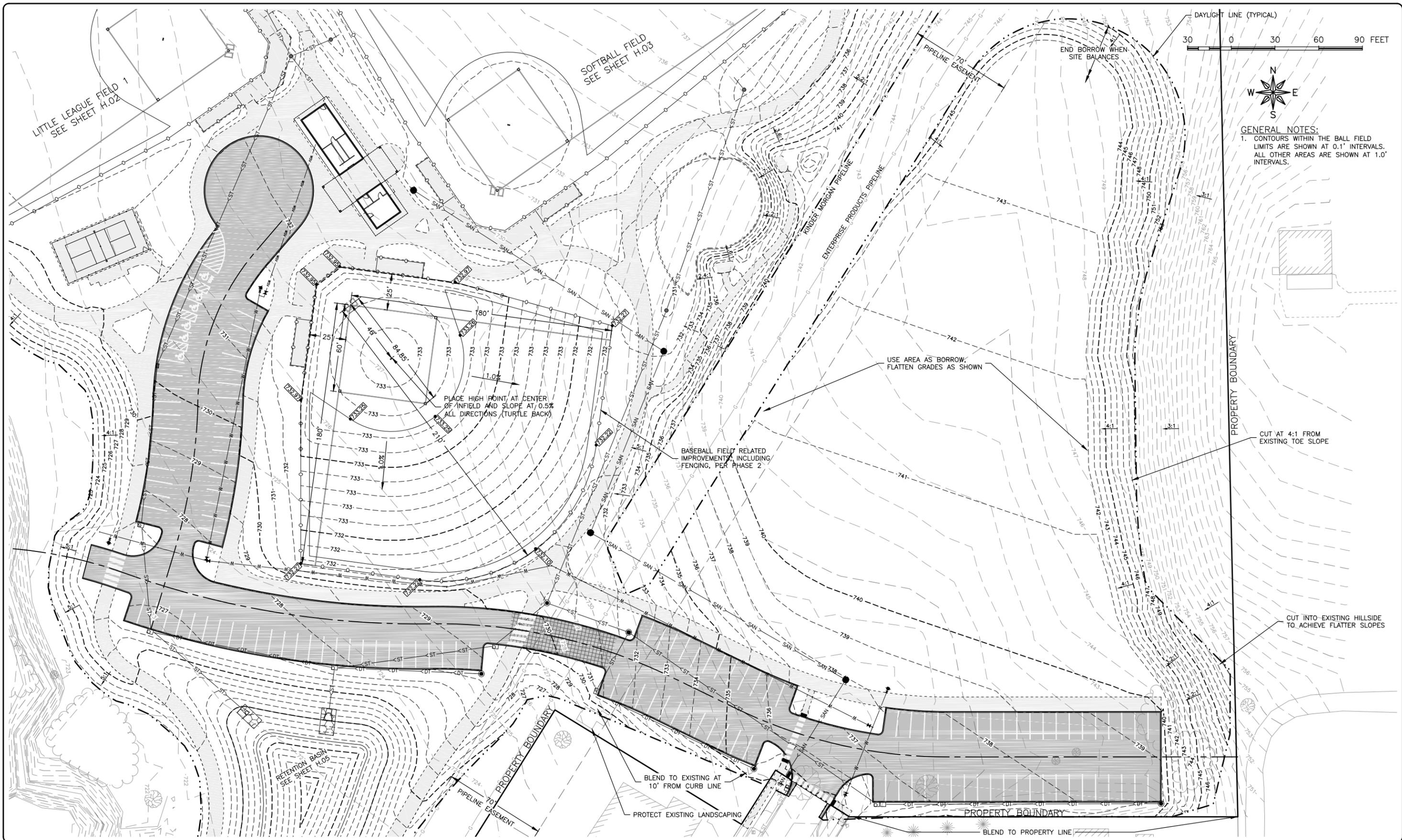
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 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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 SET TYPE:
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JOB NUMBER:
 16-072
 SHEET NUMBER:
 H.03

FOR BID



GENERAL NOTES:
 1. CONTOURS WITHIN THE BALL FIELD LIMITS ARE SHOWN AT 0.1' INTERVALS. ALL OTHER AREAS ARE SHOWN AT 1.0' INTERVALS.

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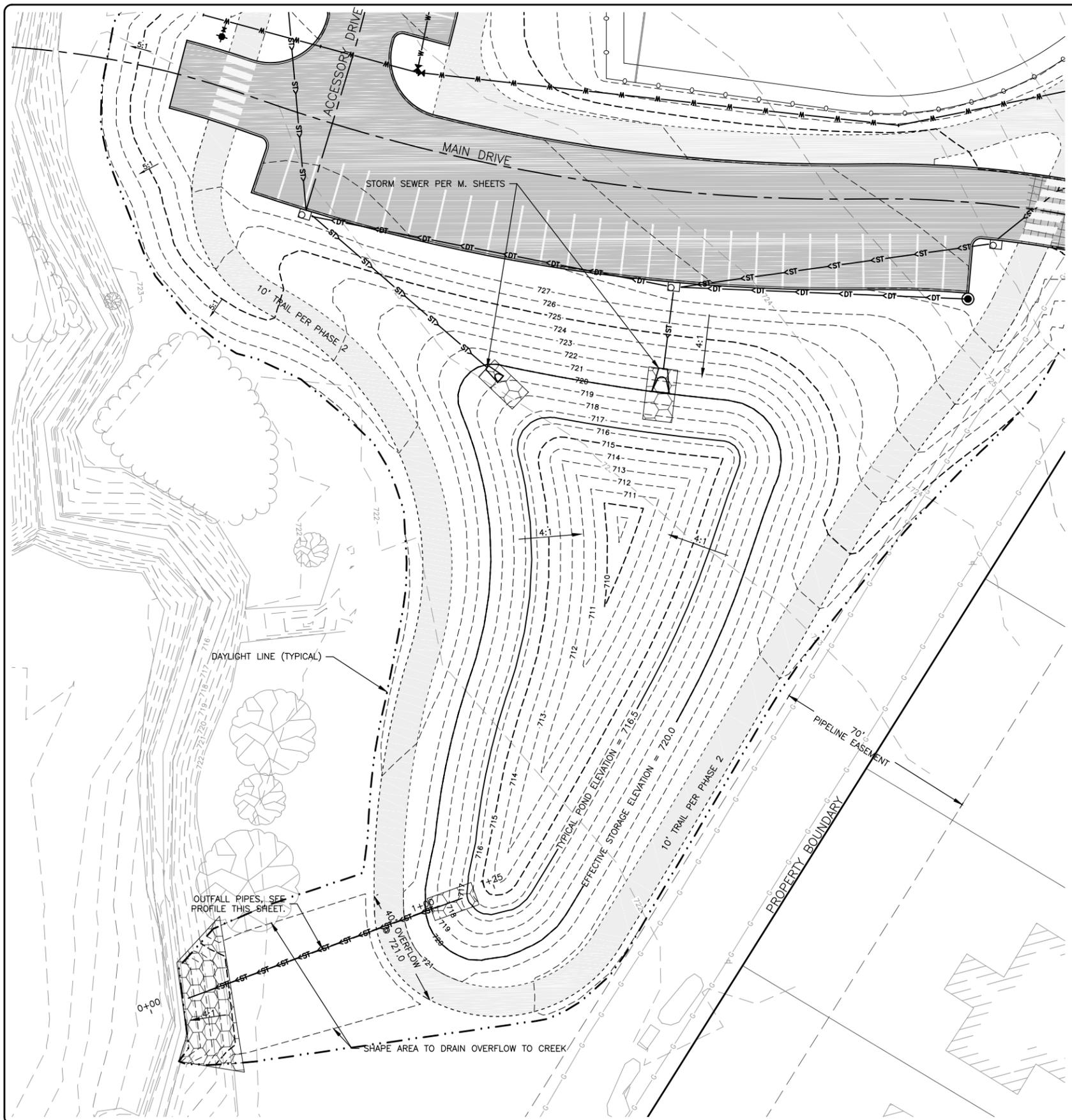
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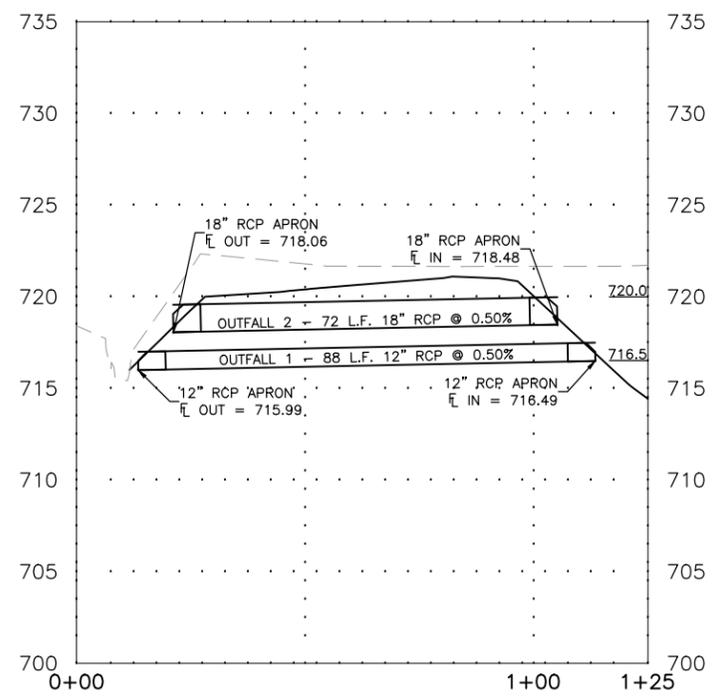
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NOTE:
 DEWATER RETENTION POND AS NECESSARY FOR EXCAVATION.
 CONTRACTOR IS RESPONSIBLE TO PROTECT DEWATERING
 DISCHARGE LOCATION TO PREVENT EROSION.
 SEE SOIL BORING REPORT FOR ADDITIONAL INFORMATION ON SOIL
 TYPES AND GROUNDWATER.



OUTFALL PIPES PROFILE

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 PLOT DATE: 11/14/17 © 2017 FEHR GRAHAM

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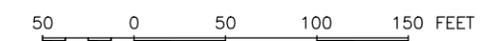
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 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 SITE GRADING
 SET TYPE:
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JOB NUMBER:
 16-072
 SHEET NUMBER:
 H.05

FOR BID



- GENERAL NOTES:**
1. CUT/FILL SHOWN IS FROM EXISTING SURFACE TO FINISHED SURFACE AND DOES NOT INDICATE CUT FOR TOPSOIL, PAVEMENT, OR GRANULAR FIELD SURFACING.
 2. NEGATIVE (-) NUMBERS INDICATE A CUT, POSITIVE (+) NUMBERS INDICATE A FILL.



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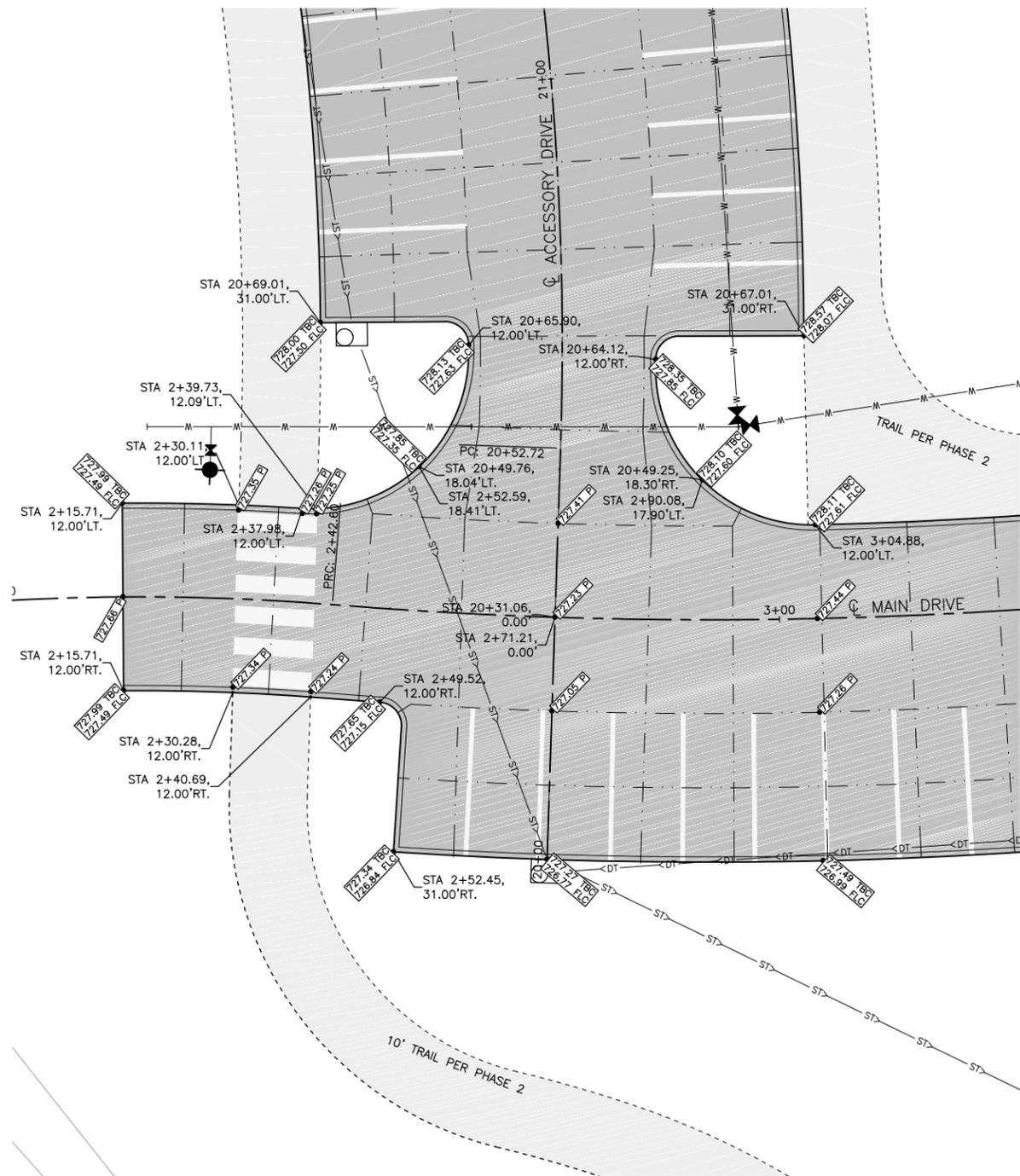
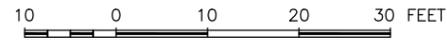
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 GRADING CUT & FILL MAP

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FOR BID

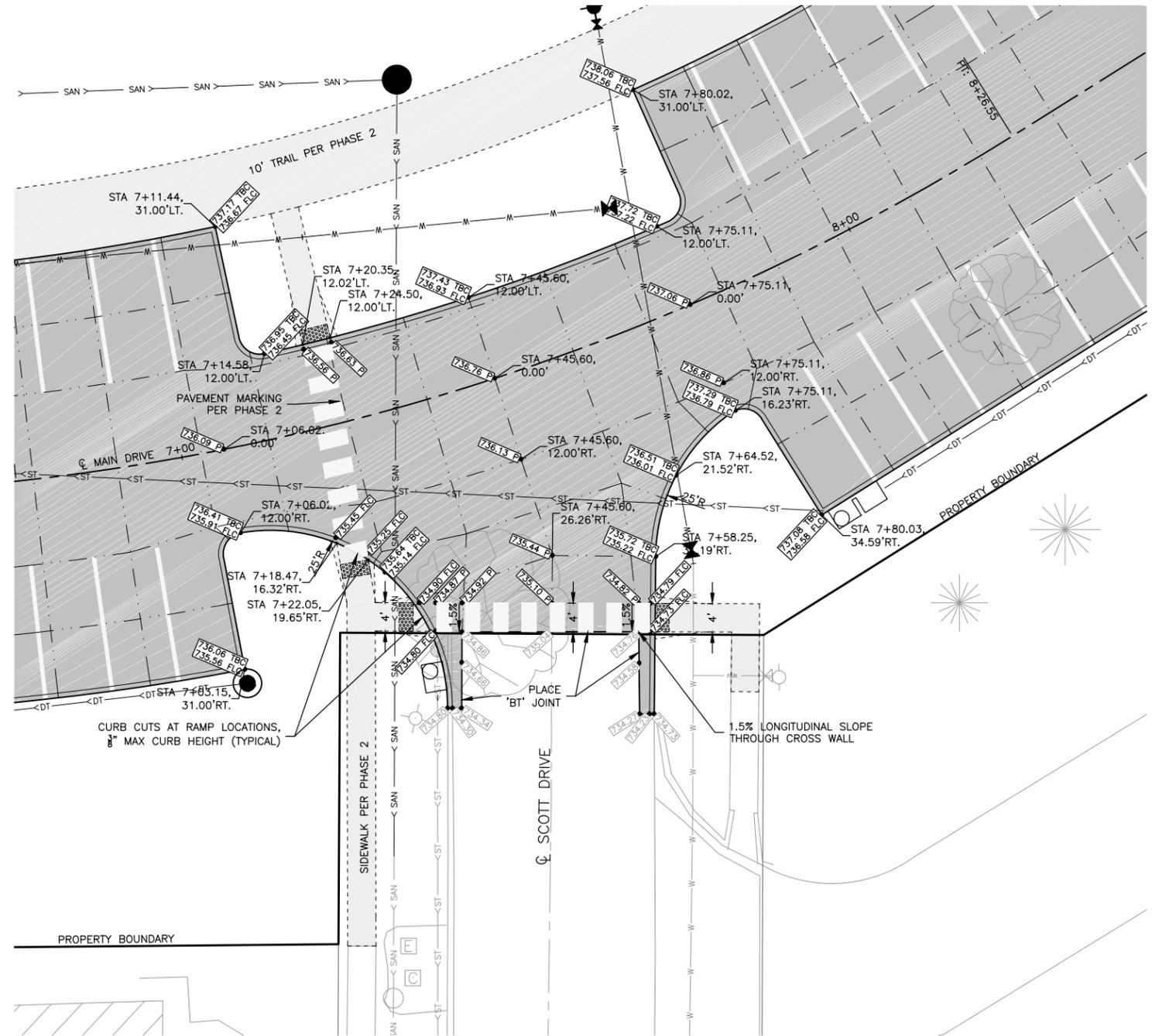
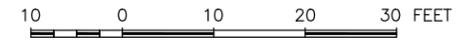
JOB NUMBER:
 16-072

SHEET NUMBER:
 H.06



INTERSECTION OF MAIN DRIVE AND ACCESSORY DRIVE

LOCATION		PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(SY)	(TON)
MAIN DRIVE & ACCESSORY DRIVE	2+37.98	389	150
	3+04.88		
	20+00		
	20+69.01		



INTERSECTION OF SCOTT DRIVE AND MAIN DRIVE

LOCATION		PCC	SUBBASE
ALIGNMENT	STATION TO STATION	(SY)	(TON)
MAIN DRIVE & SCOTT DRIVE	7+03.15	359	140
	7+80.02		
	END OF		

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ILLINOIS
IOWA
WISCONSIN

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110 NORTH POPLAR STREET
WEST BRANCH, IOWA 52358

PROJECT AND LOCATION:
CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

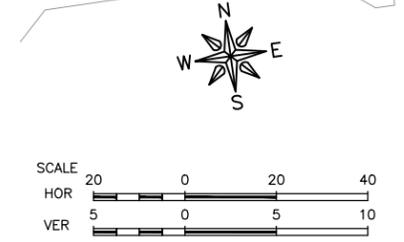
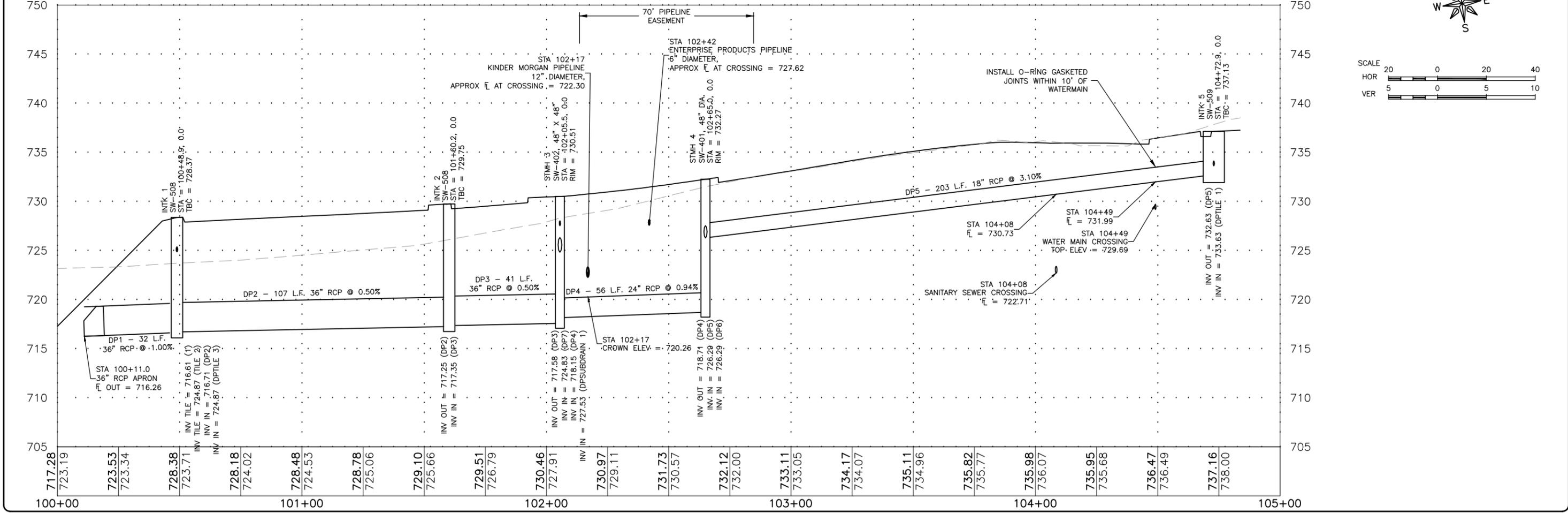
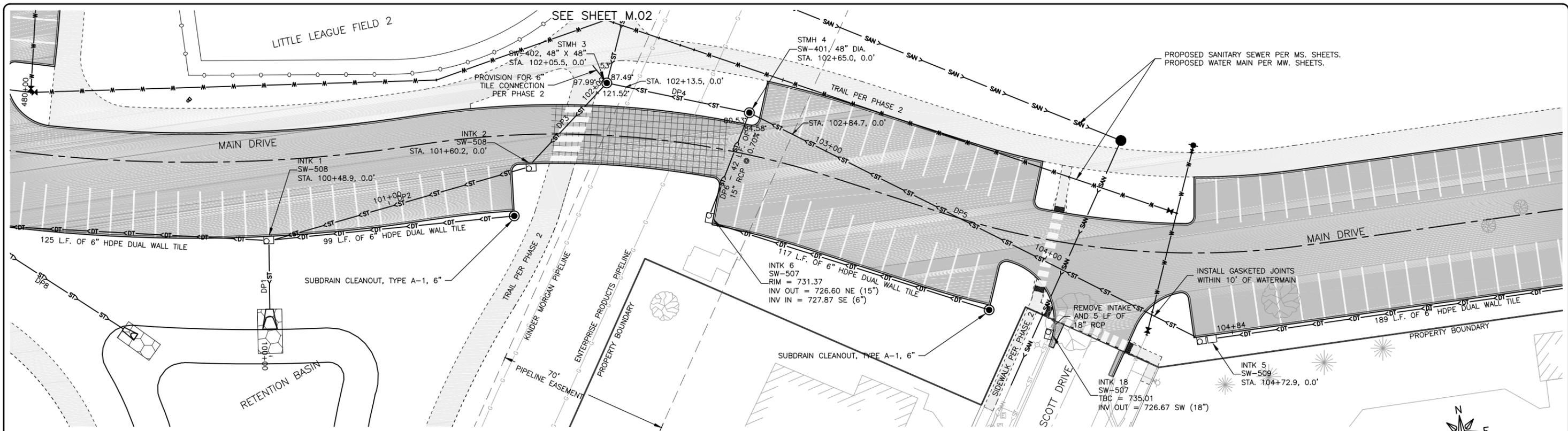
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FOR BID

JOB NUMBER:
16-072

SHEET NUMBER:
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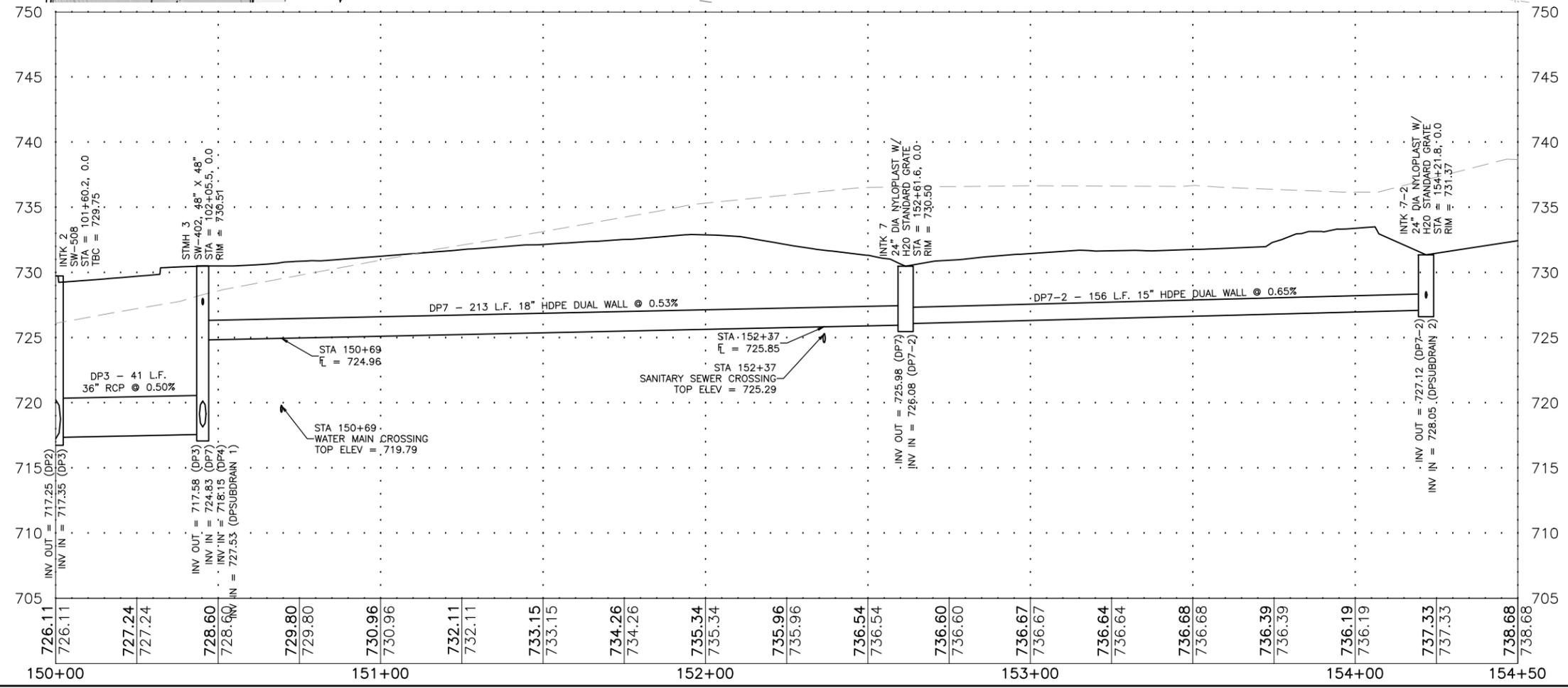
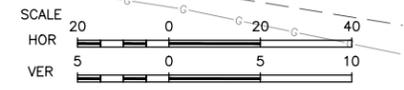
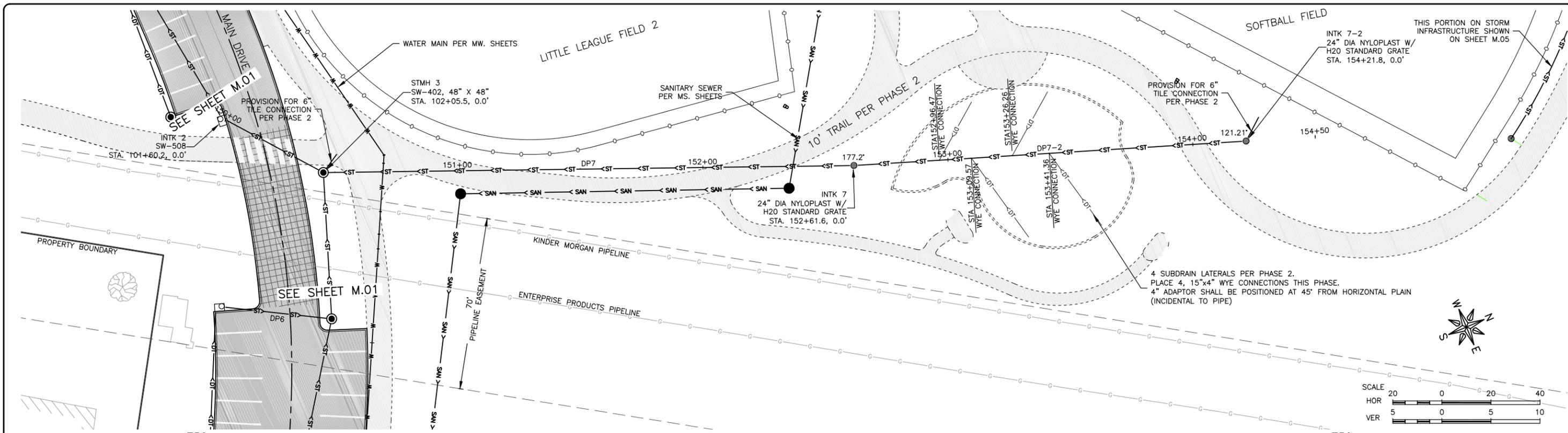
REVISIONS		
REV. NO.	DESCRIPTION	DATE

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STORM SEWER PLAN & PROFILE

SET TYPE: FOR BID
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JOB NUMBER:
16-072

SHEET NUMBER:
M.01



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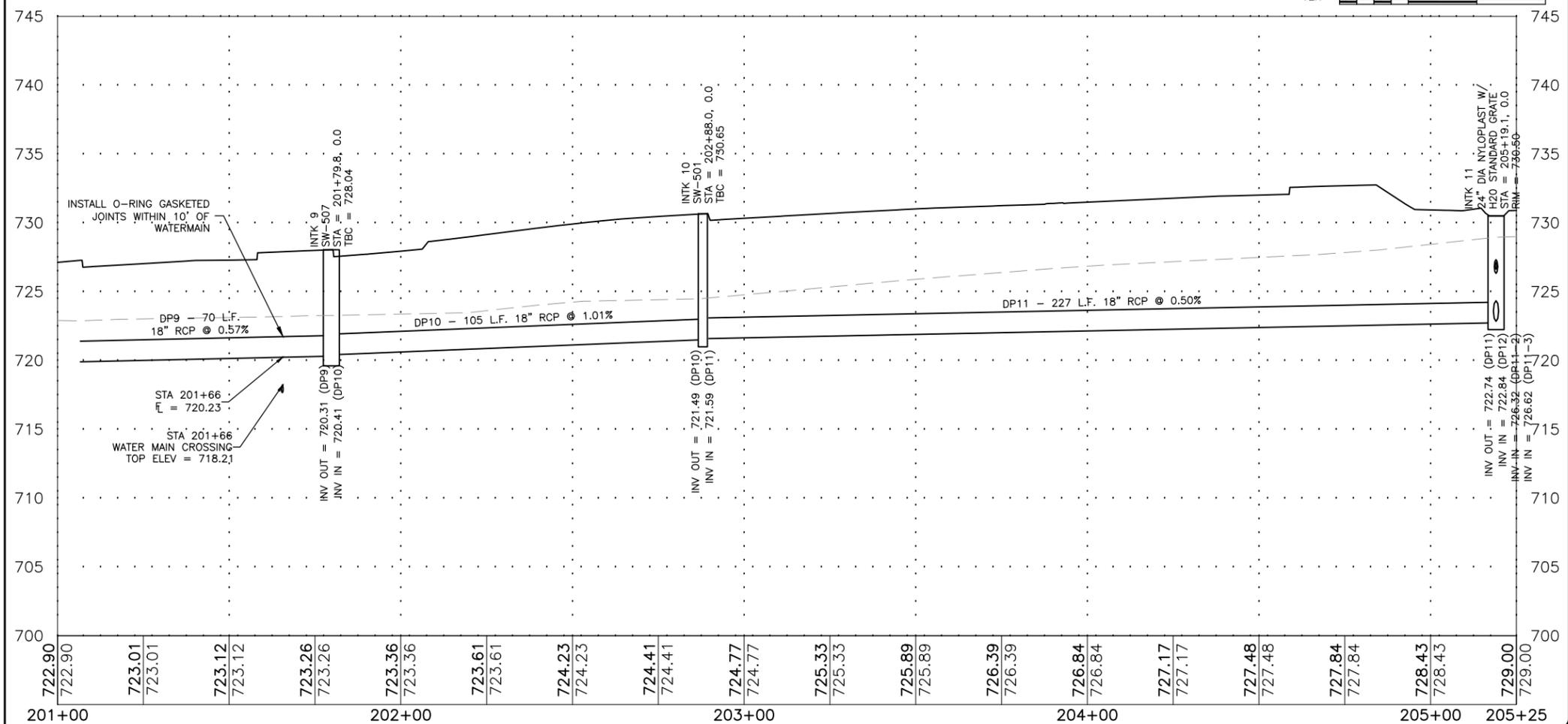
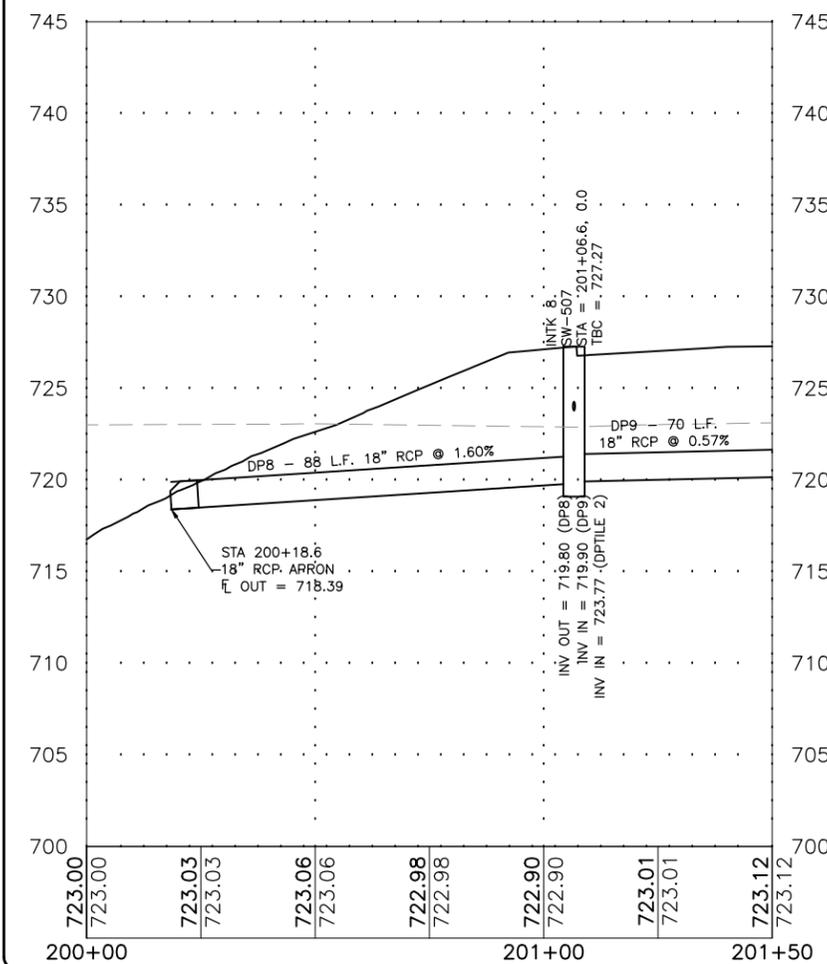
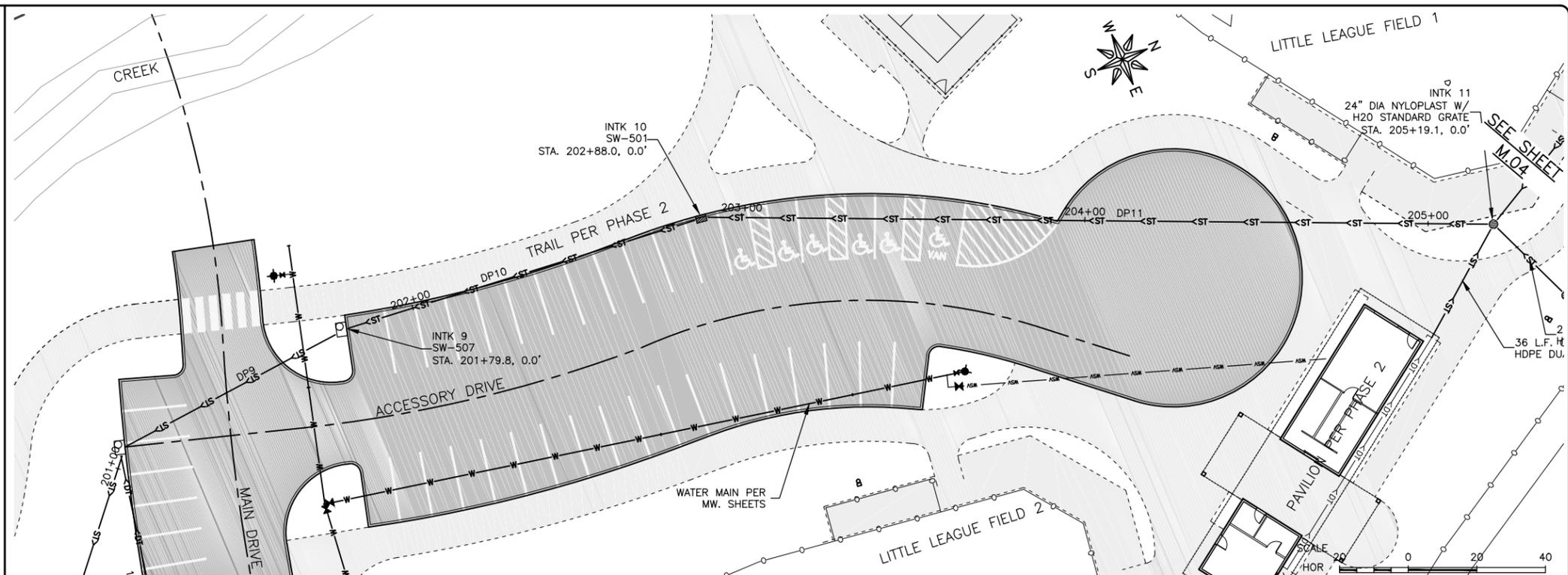
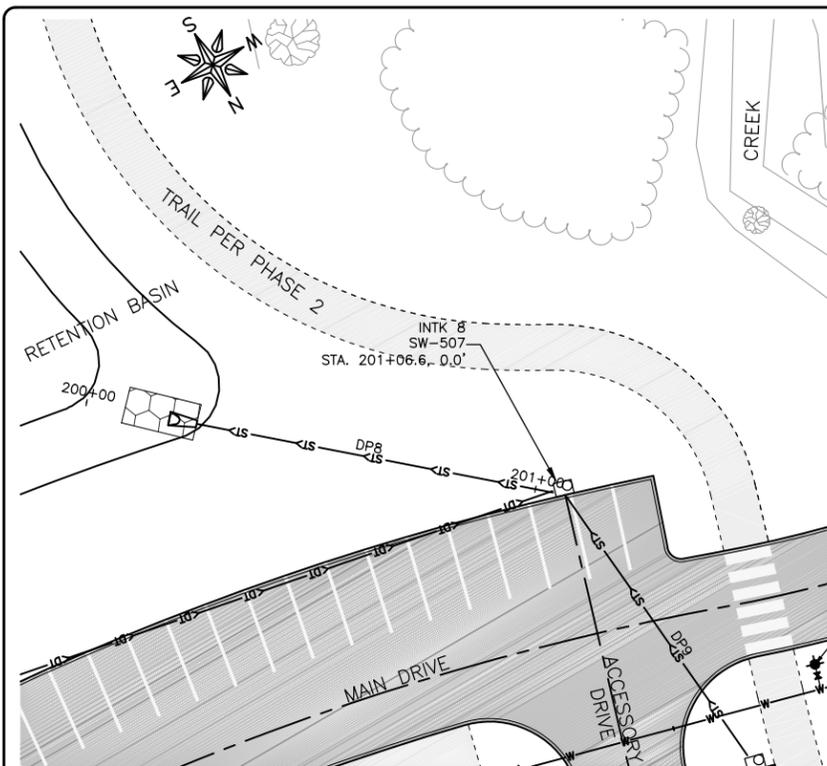
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REV. NO.	DESCRIPTION	DATE

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JOB NUMBER:
16-072

SHEET NUMBER:
M.02



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DRAWN BY: AJB
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DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

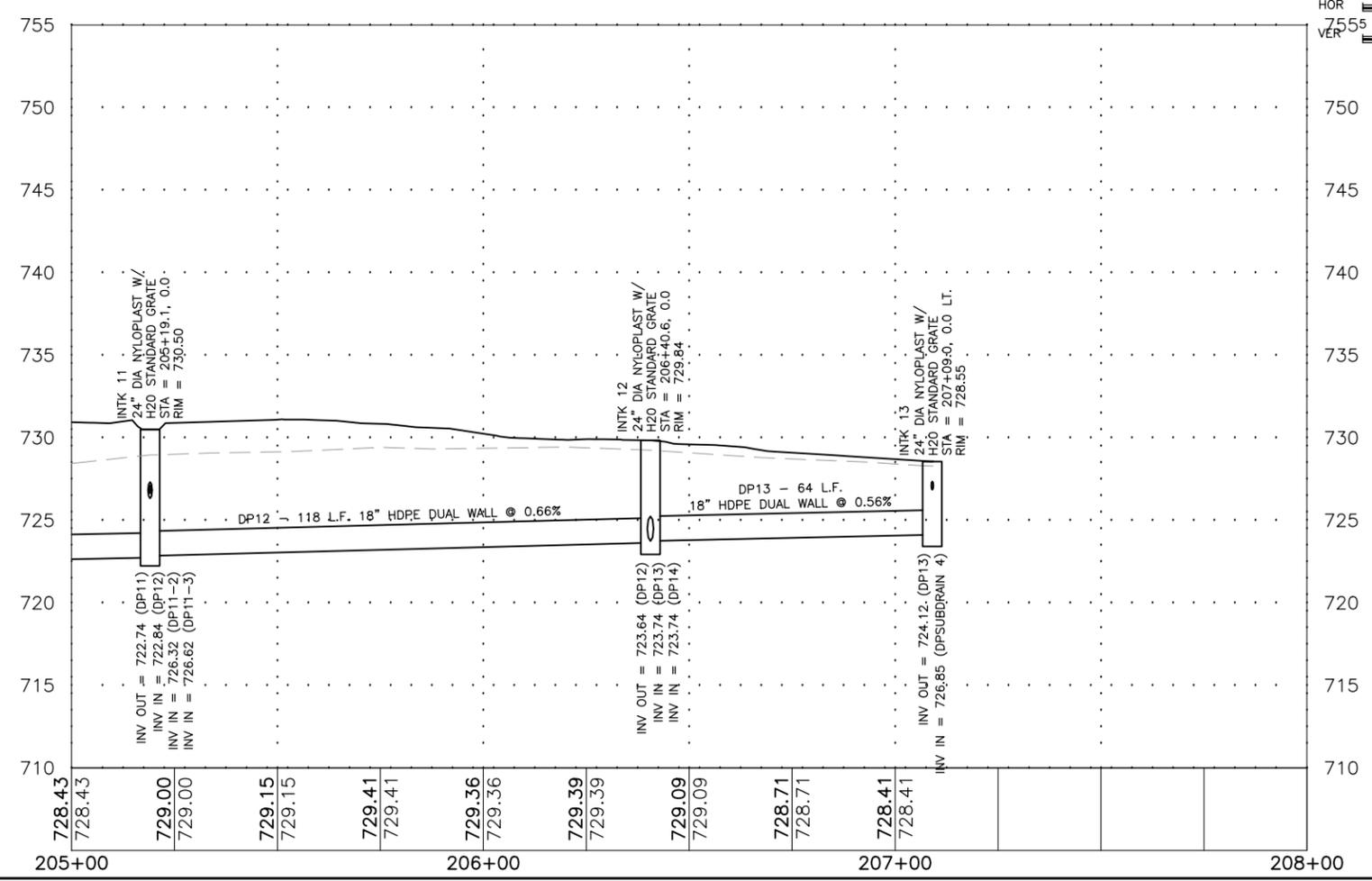
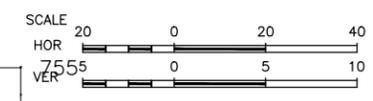
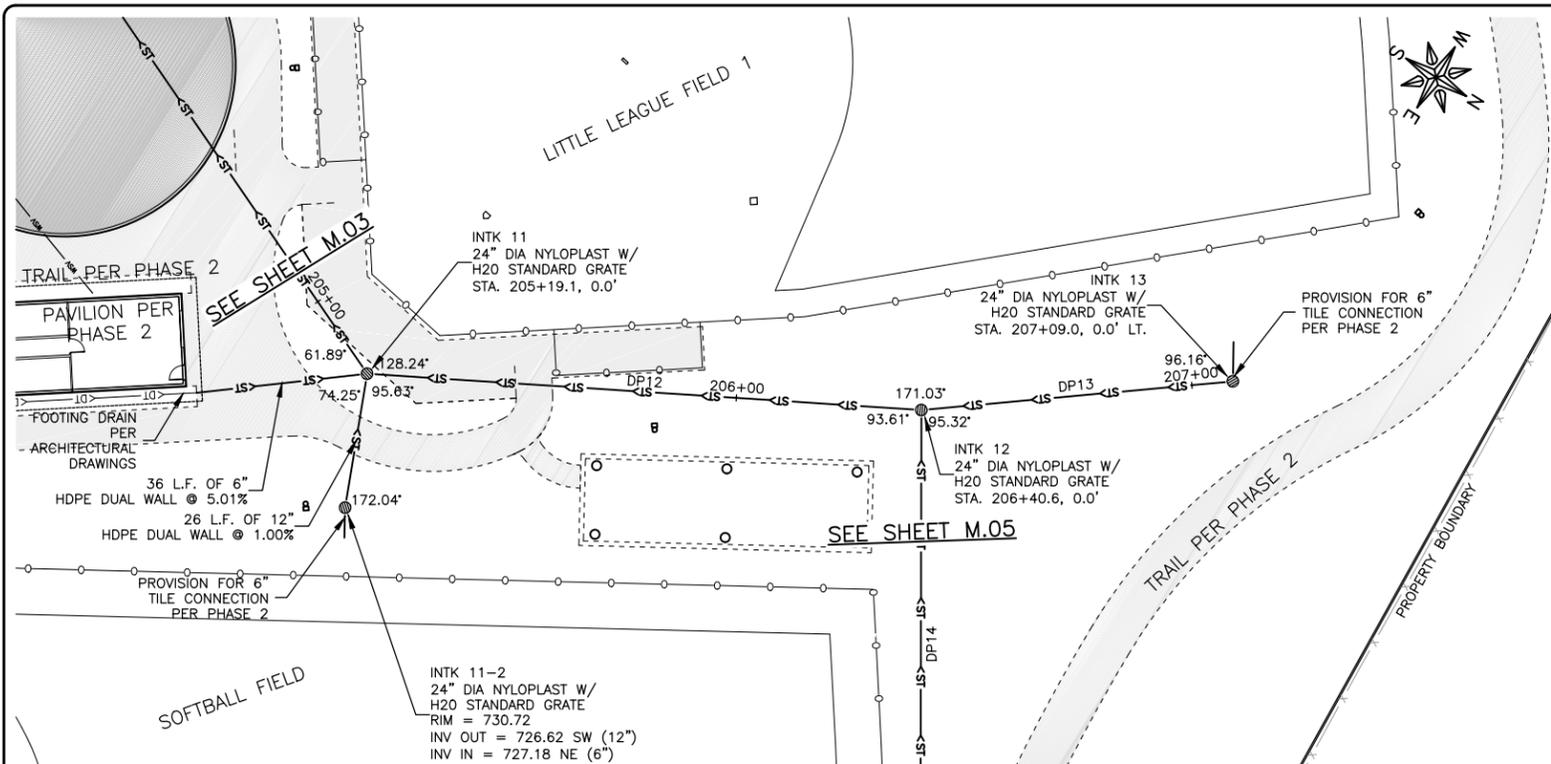
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JOB NUMBER:
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SHEET NUMBER:
M.03



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APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
STORM SEWER PLAN & PROFILE

SET TYPE: FOR BID

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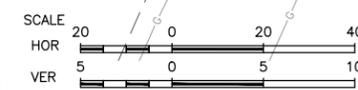
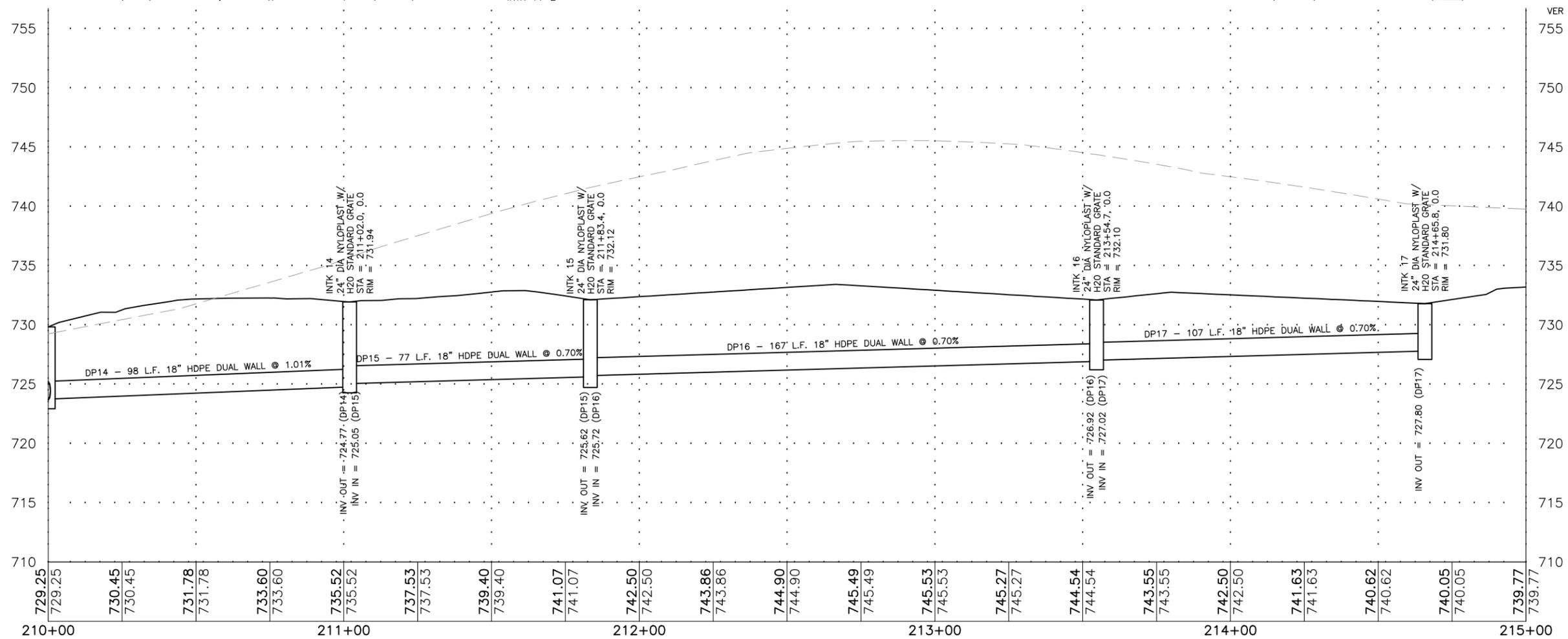
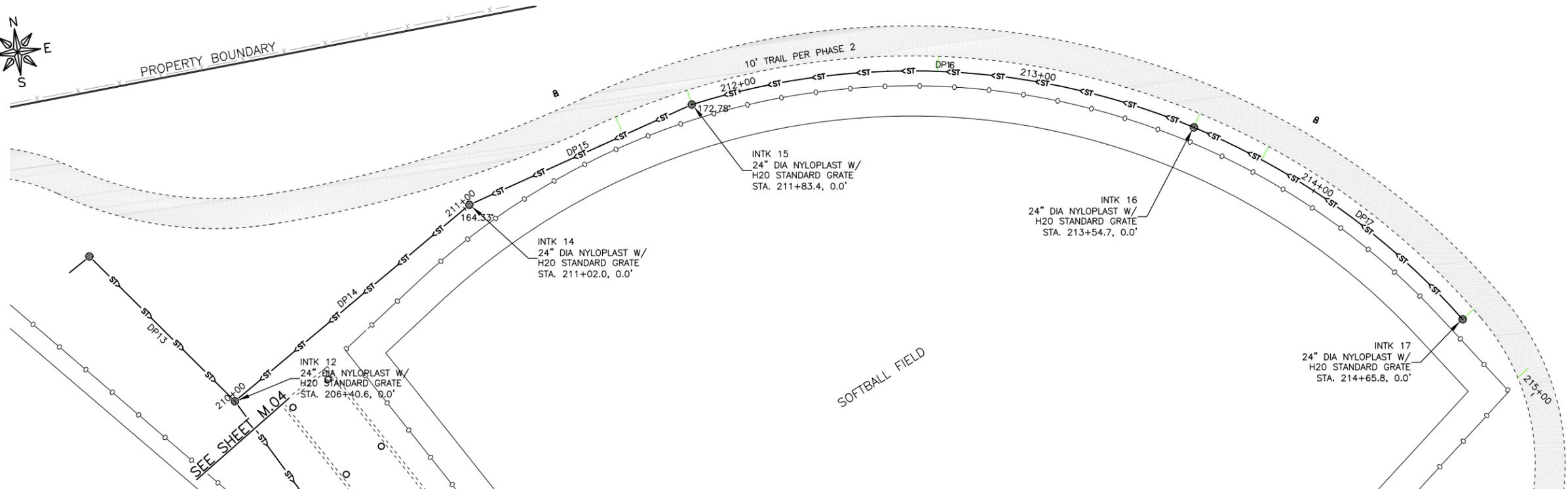
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PROPERTY BOUNDARY

10' TRAIL PER PHASE 2

SOFTBALL FIELD



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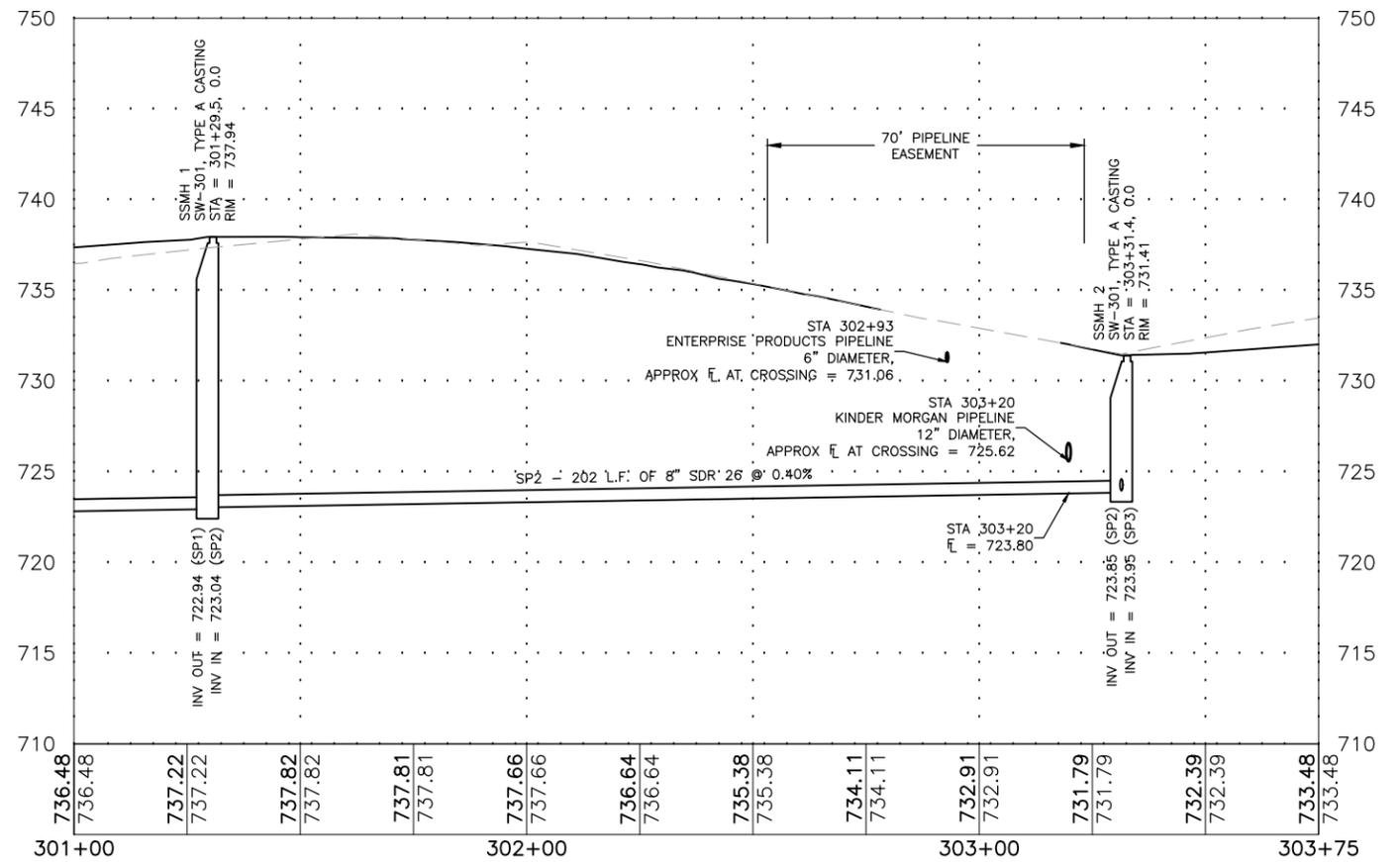
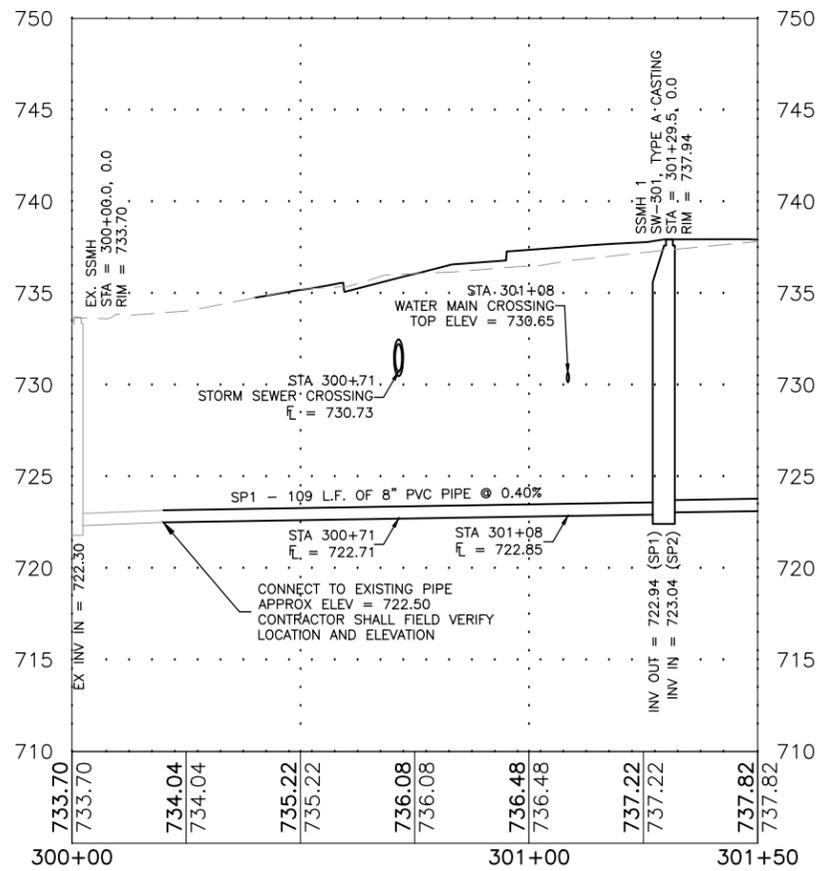
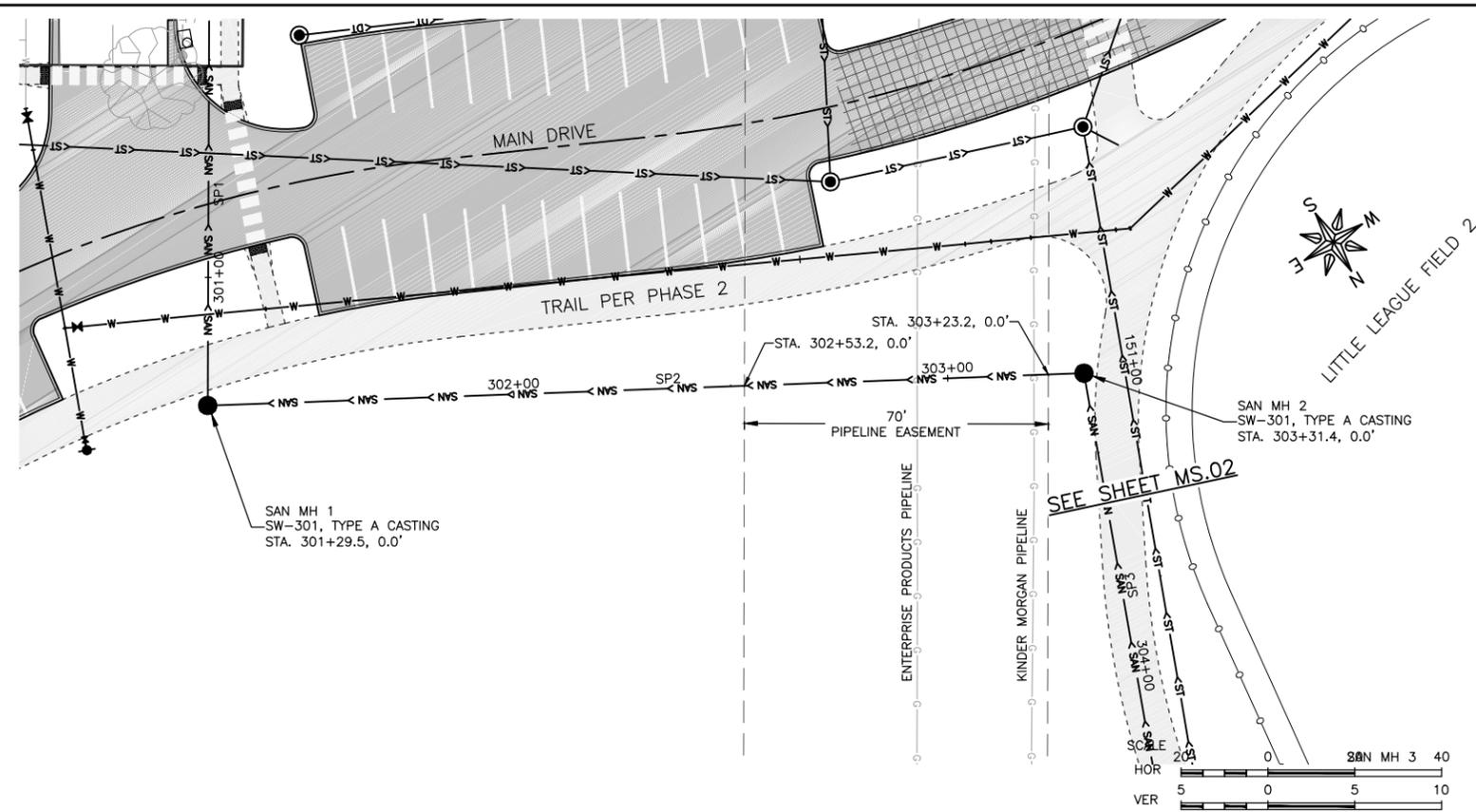
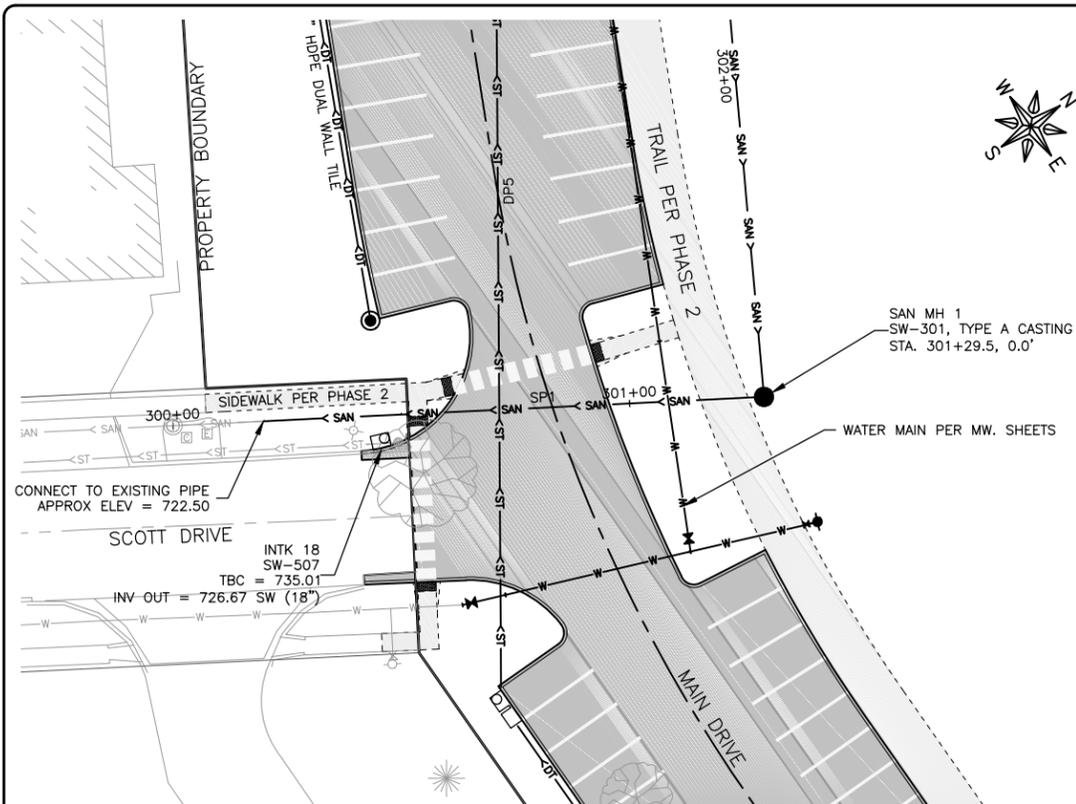
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CUBBY PARK IMPROVEMENTS -
PHASE 1
WEST BRANCH, IOWA

DRAWN BY: AJB
APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SET TYPE: FOR BID
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JOB NUMBER:
16-072
SHEET NUMBER:
M.05



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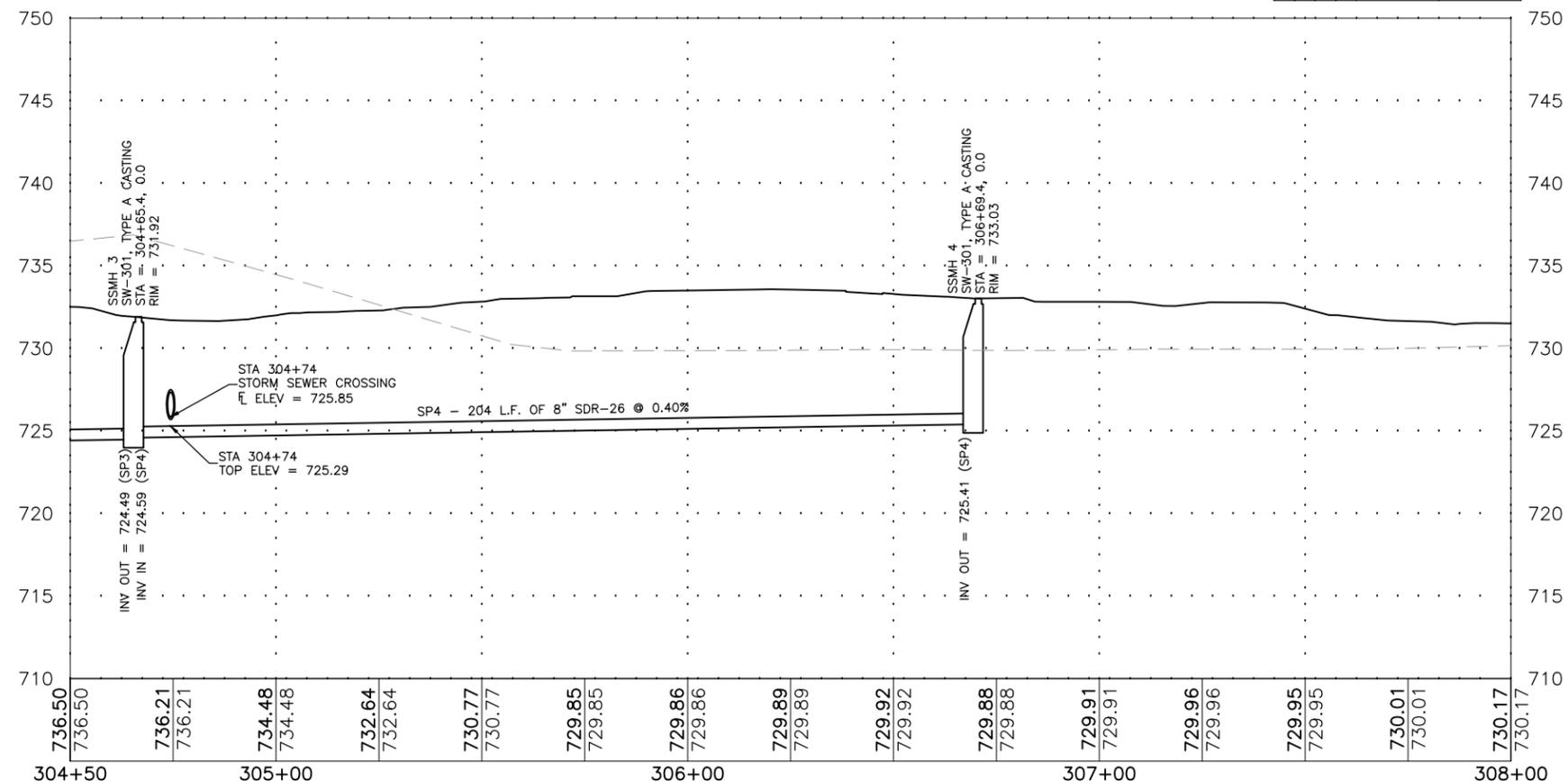
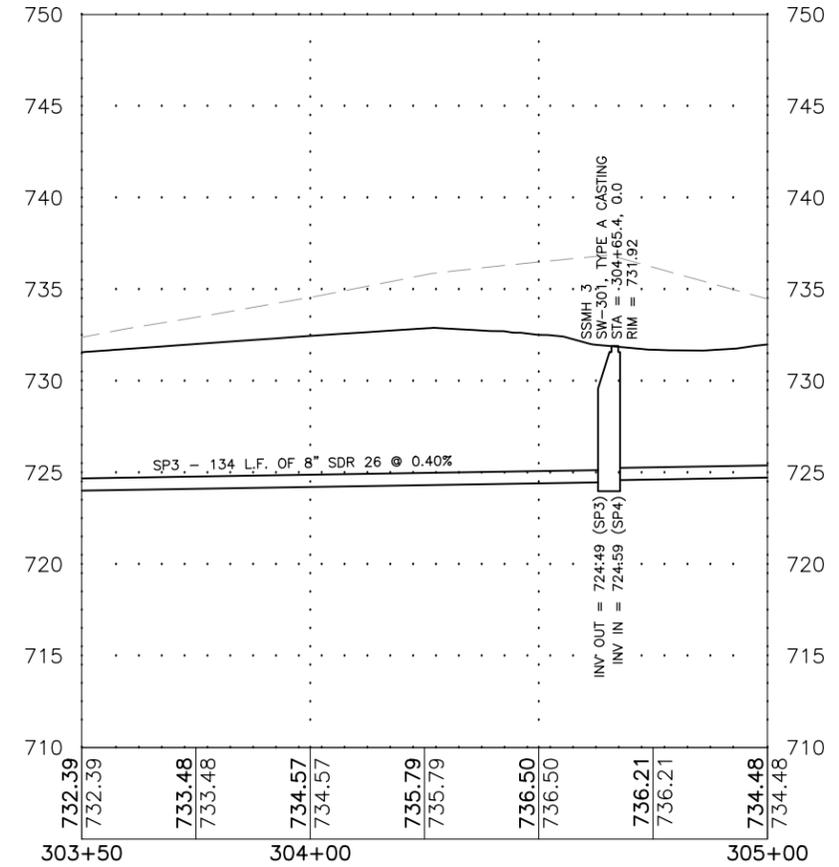
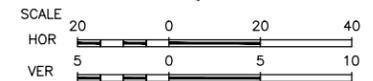
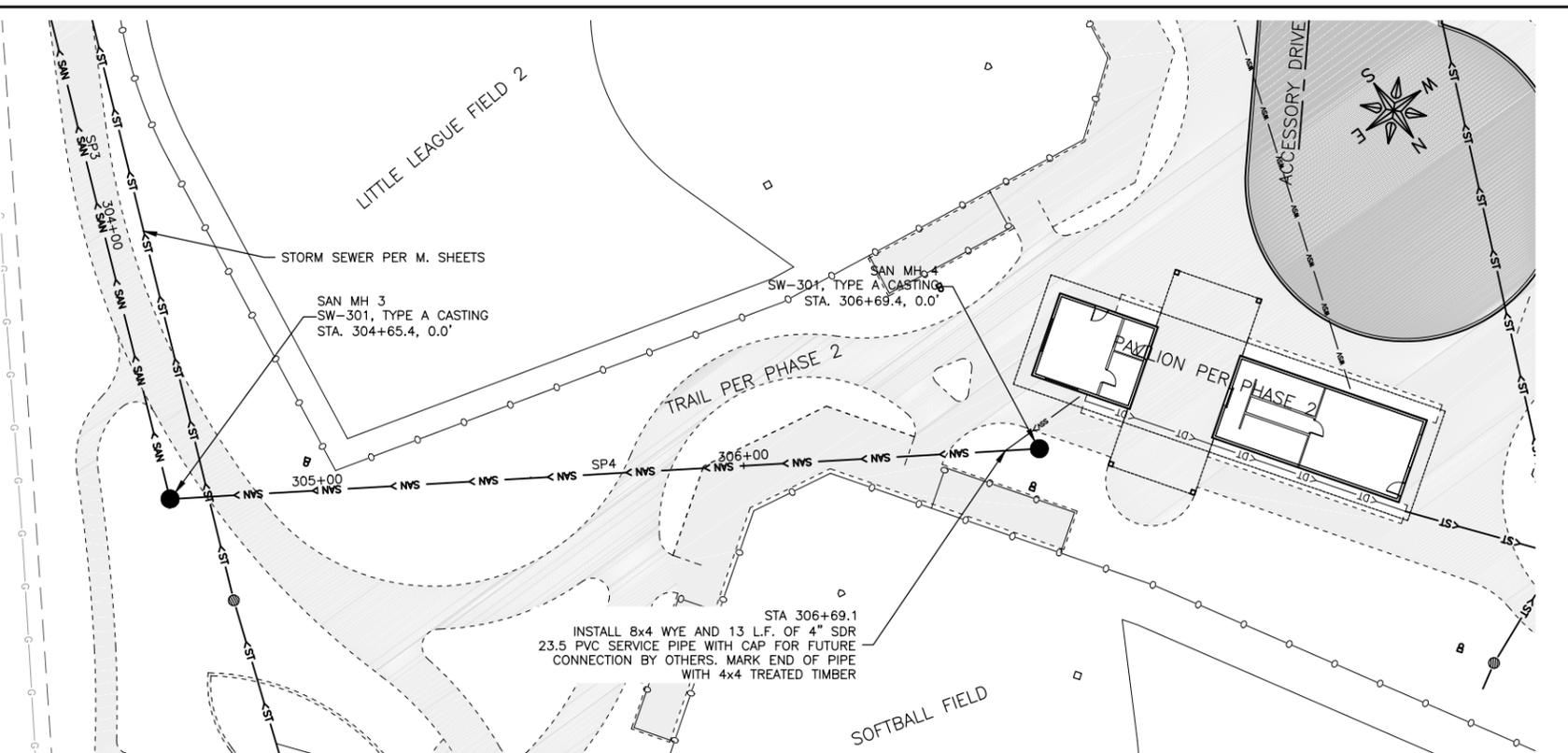
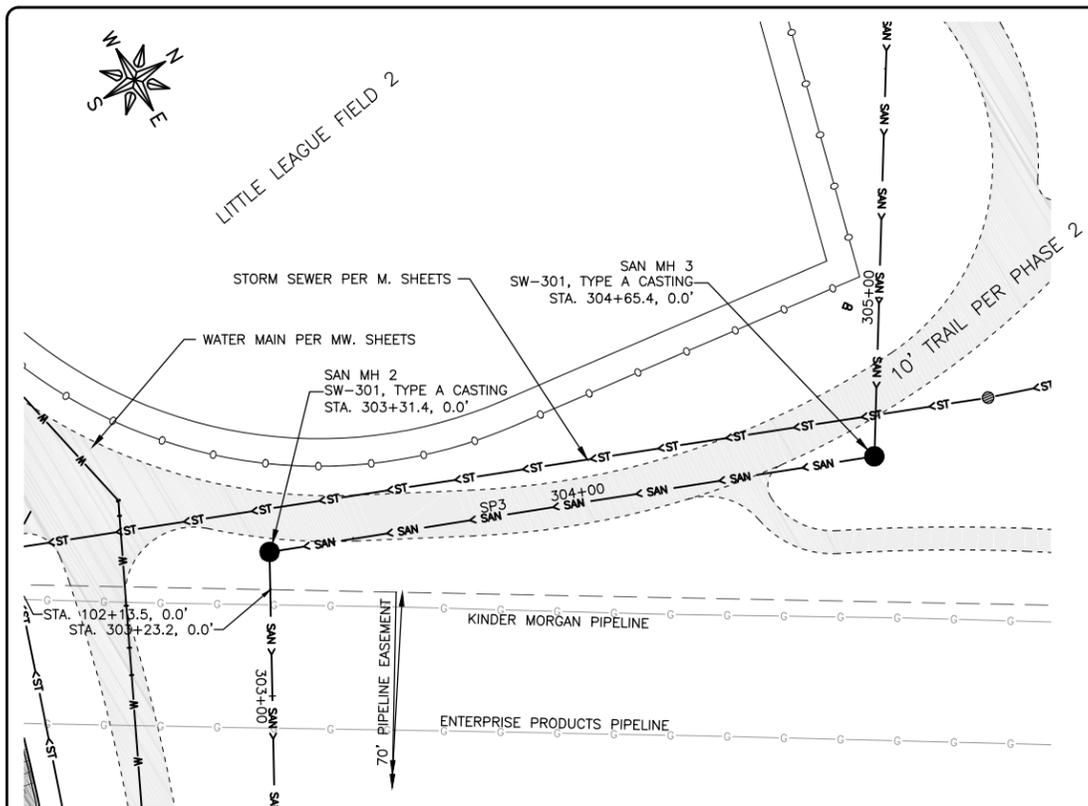
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SANITARY SEWER PLAN & PROFILE

SET TYPE: FOR BID
G:\C3D\16-072\16-072 design pipes.dwg, MS.01

JOB NUMBER:
16-072

SHEET NUMBER:
MS.01



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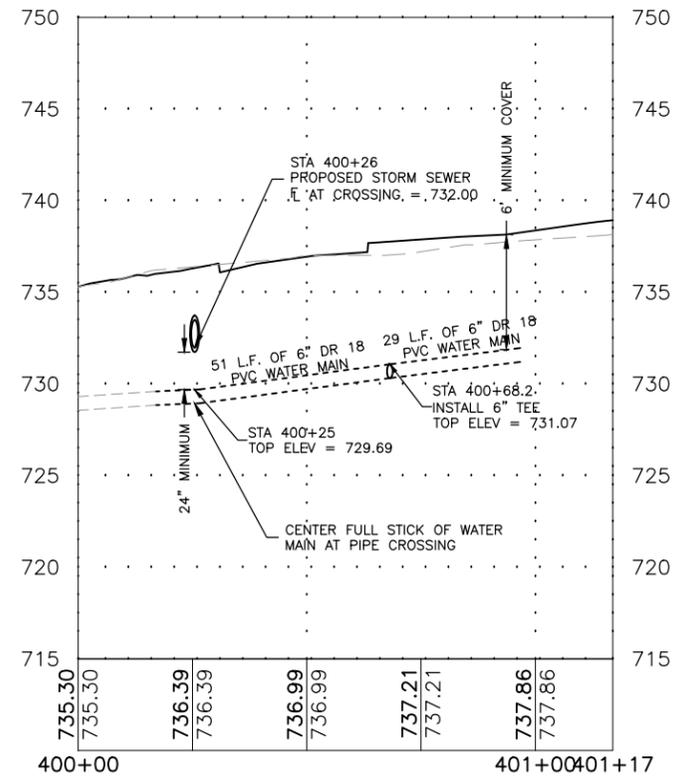
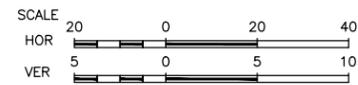
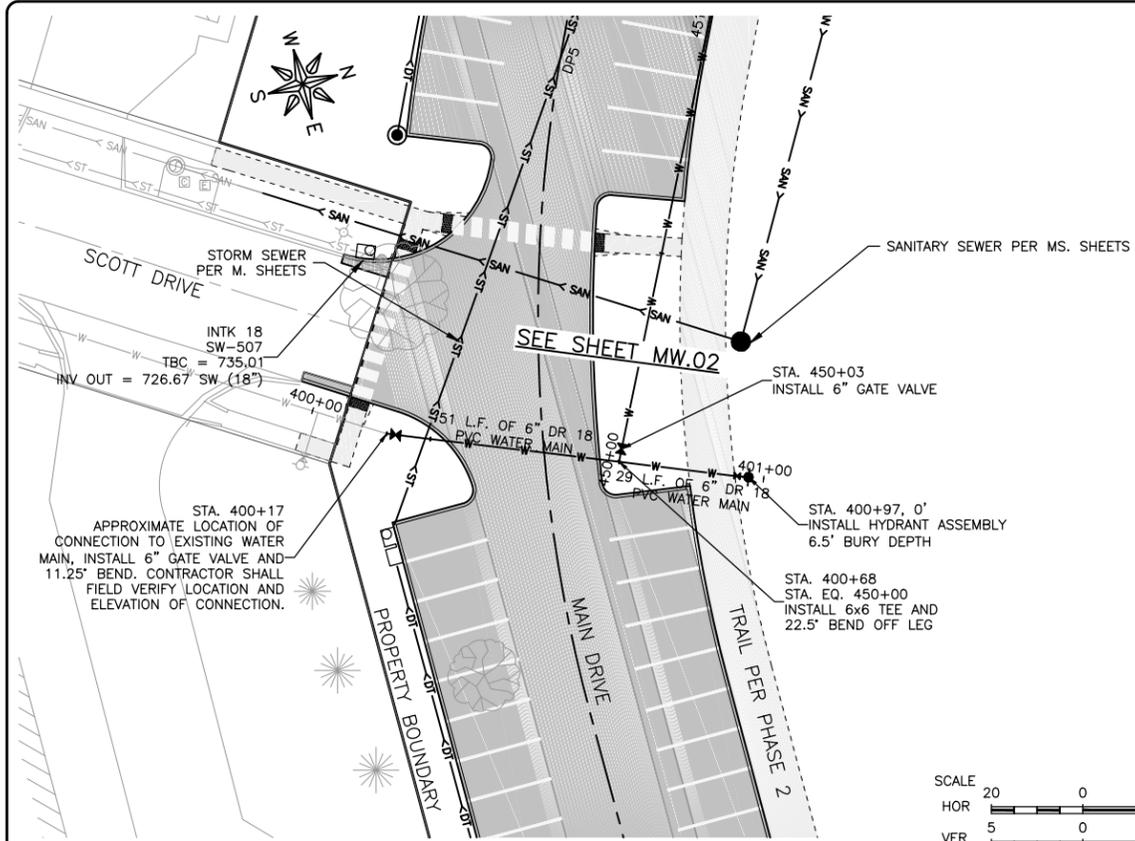
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APPROVED BY: NPK
DATE: 11-14-2017
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SANITARY SEWER PLAN & PROFILE
SET TYPE: FOR BID
G:\CSD\16-072\16-072 design pipes.dwg, MS.02

JOB NUMBER:
16-072
SHEET NUMBER:
MS.02

WATER NOTES:
 1. INSTALL RESTRAINED FITTINGS IN ADDITION TO THRUST BLOCKS.



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 DATE: 11-14-2017
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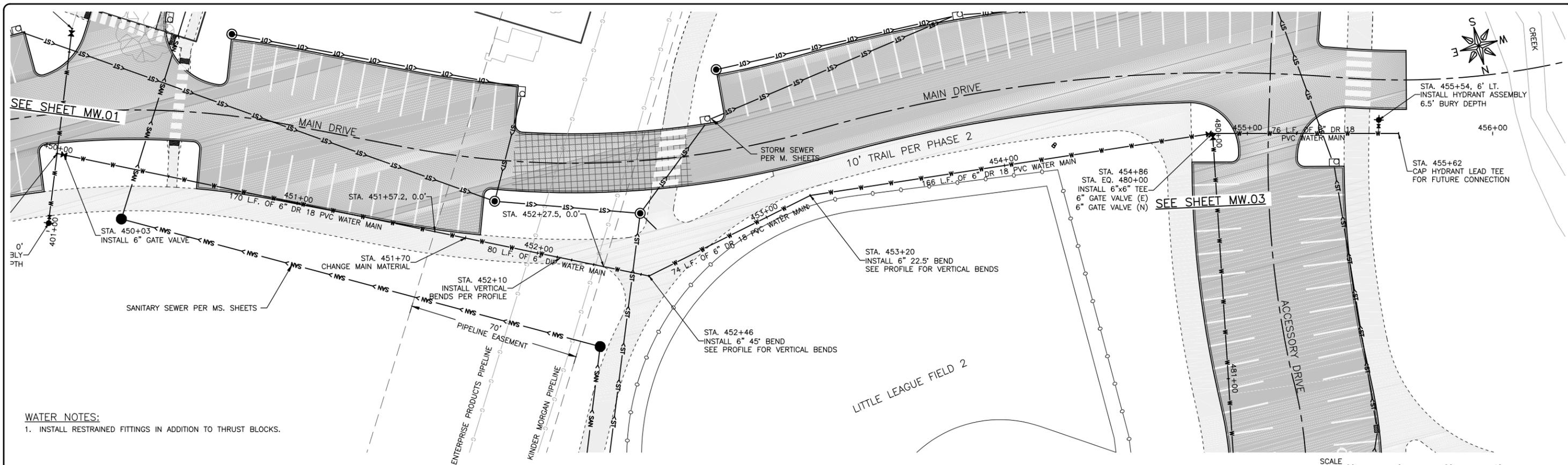
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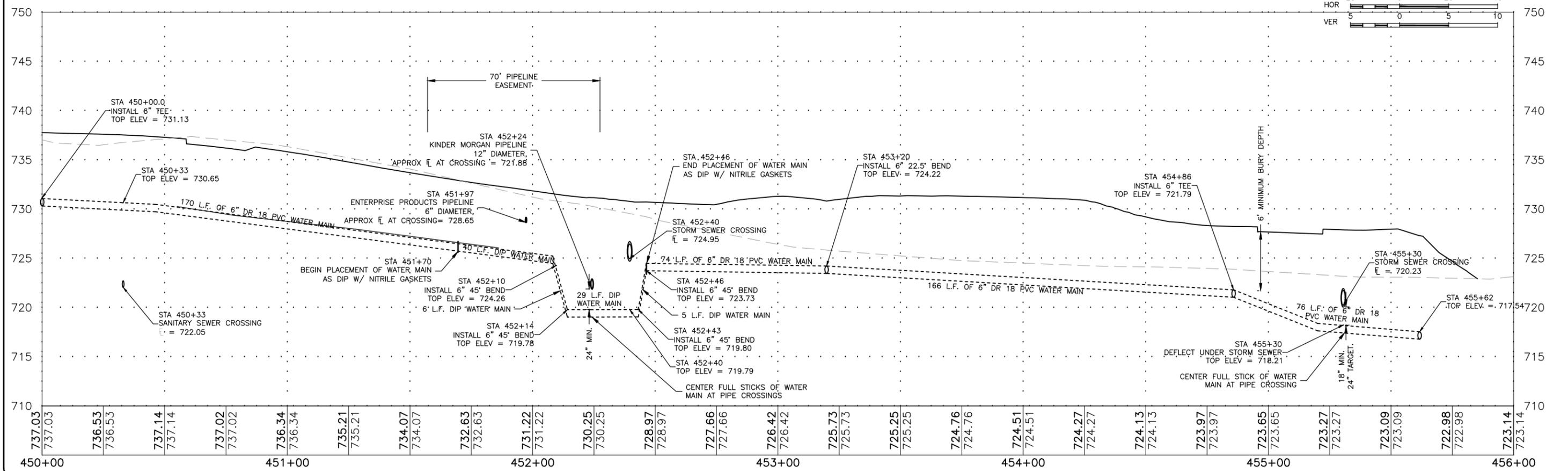
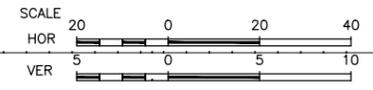
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SHEET NUMBER:
 MW.01



WATER NOTES:
 1. INSTALL RESTRAINED FITTINGS IN ADDITION TO THRUST BLOCKS.



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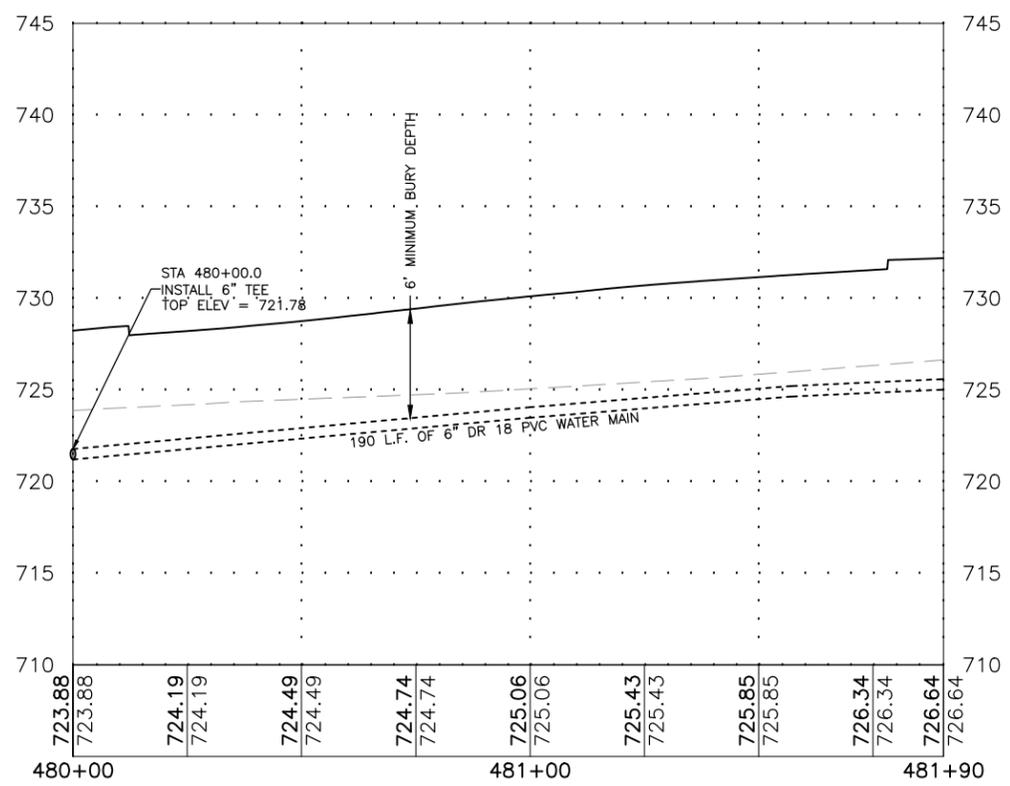
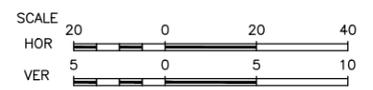
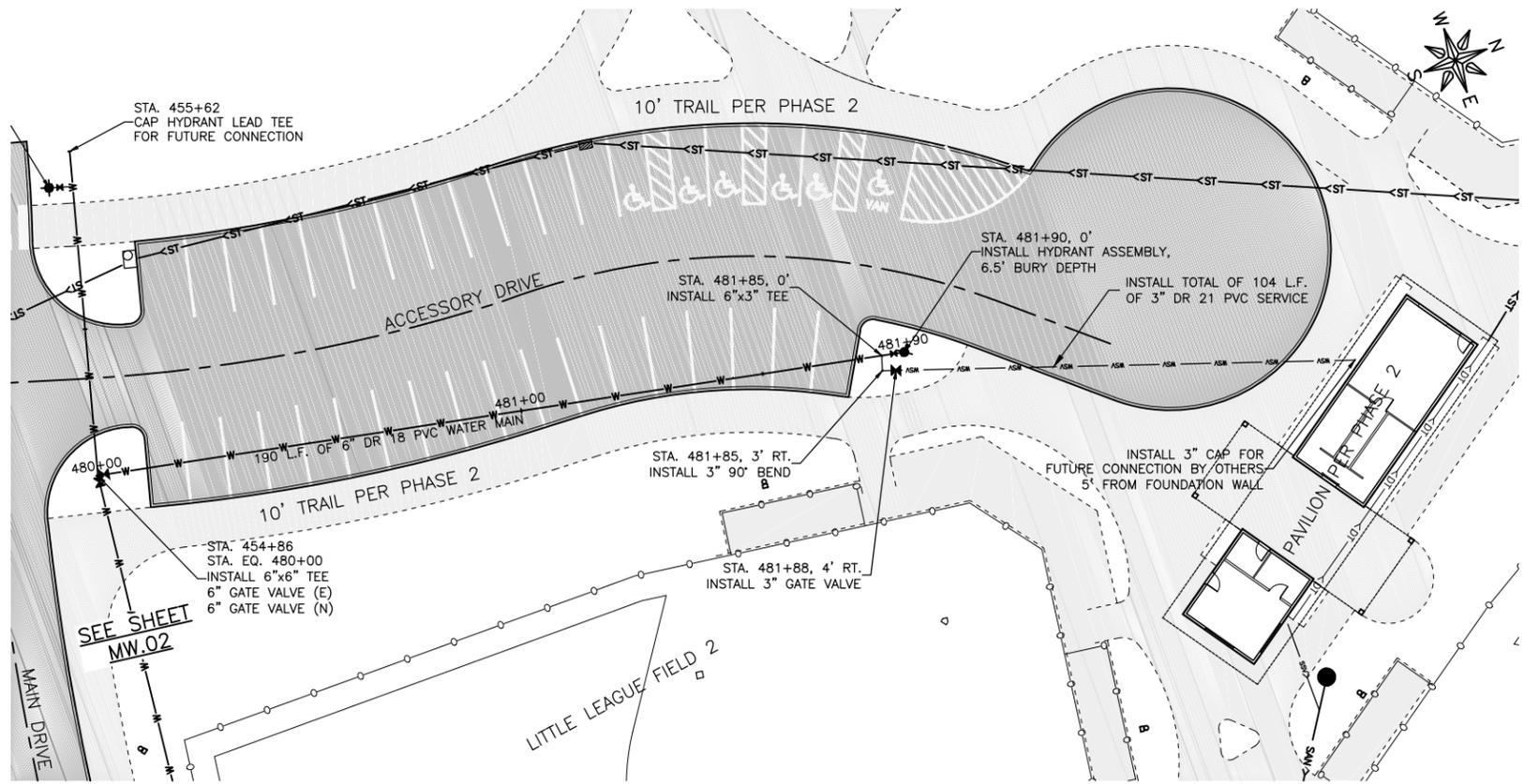
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DRAWING:
 WATER MAIN PLAN & PROFILE

SET TYPE: FOR BID
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JOB NUMBER:
 16-072

SHEET NUMBER:
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REV. NO.	DESCRIPTION	DATE

DRAWING:
 WATER MAIN PLAN & PROFILE

SET TYPE: FOR BID
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JOB NUMBER:
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SHEET NUMBER:
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