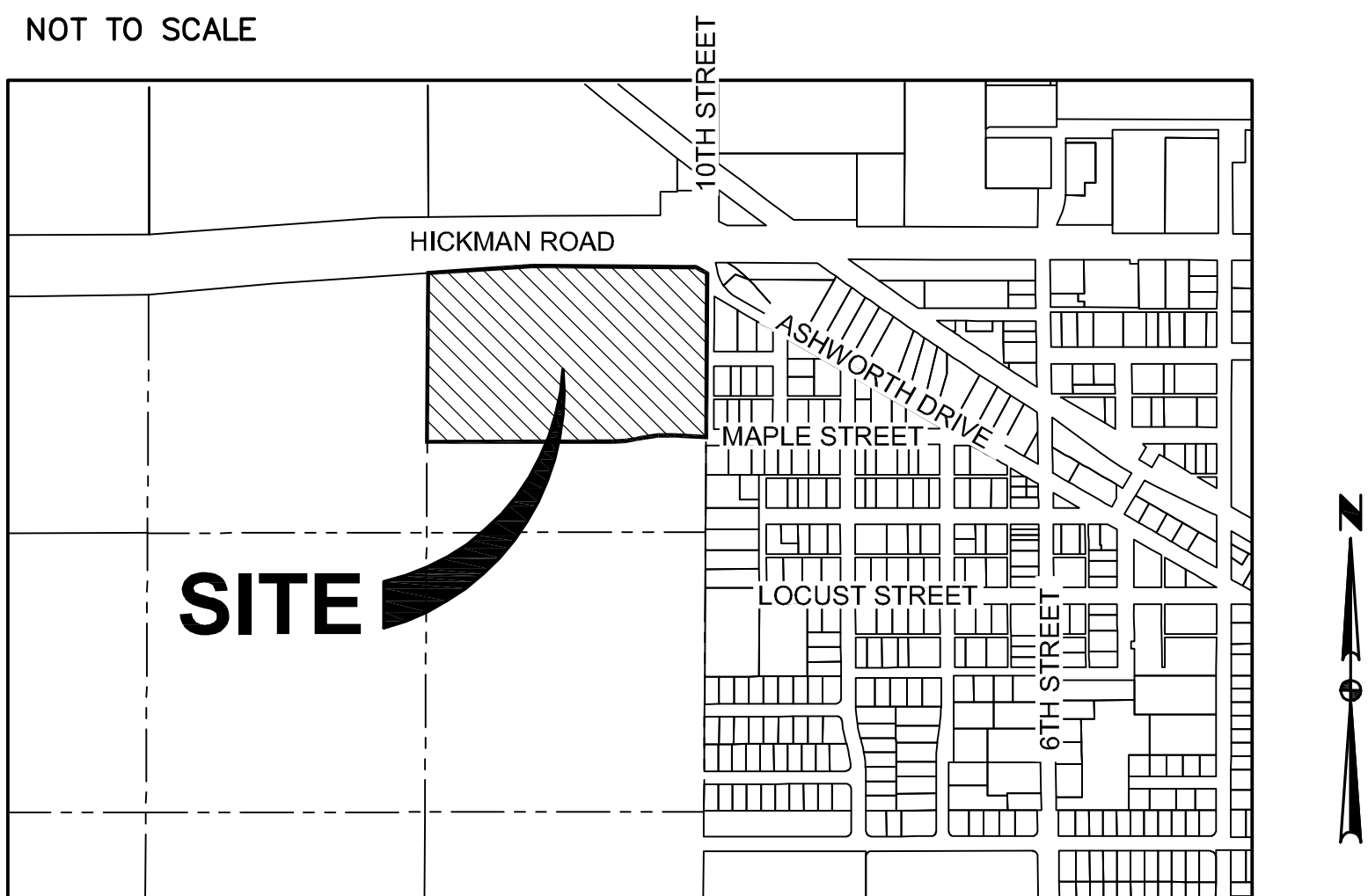


CONSTRUCTION PLANS FOR: DEERY BROTHERS WAUKEE DEVELOPMENT

WAUKEE, IOWA

VICINITY MAP

NOT TO SCALE



WAUKEE, IOWA

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3-4	DETAILS
5	QUANTITIES AND BID ITEM REFERENCE NOTES
6	BID ITEM REFERENCE NOTES AND GENERAL NOTES
7	HYDRANT COVERAGE PLAN
8-9	GRADING PLAN
10-11	EROSION AND SEDIMENT CONTROL PLAN
12-20	PLAN AND PROFILE
21-27	INTERSECTION DETAILS

AS-BUILT DRAWINGS

AS-BUILT PLANS ARE BASED ON SURVEYED INVERT ELEVATIONS AND INFORMATION SUPPLIED BY THE CONTRACTOR. CIVIL DESIGN ADVANTAGE TAKES NO RESPONSIBILITY FOR UNAUTHORIZED CHANGES TO THE PLANS WITHOUT CITY/OWNER KNOWLEDGE. FIELD VERIFICATION OF UTILITIES OR OTHER PLAN ELEMENTS IS ALWAYS RECOMMENDED.

UTILITY NOTE

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

GENERAL LEGEND

PROPOSED	EXISTING
SECTION LINE	SANITARY MANHOLE
CENTER LINE	WATER VALVE BOX
RIGHT OF WAY	FIRE HYDRANT
PERMANENT EASEMENT	WATER CURB STOP
TEMPORARY EASEMENT	WELL
TYPE SW-501 STORM INTAKE	STORM SEWER MANHOLE
TYPE SW-503 STORM INTAKE	STORM SEWER SINGLE INTAKE
TYPE SW-505 STORM INTAKE	STORM SEWER DOUBLE INTAKE
TYPE SW-506 STORM INTAKE	FLARED END SECTION
TYPE SW-513 STORM INTAKE	DECIDUOUS TREE
TYPE SW-401 STORM MANHOLE	CONIFEROUS TREE
TYPE SW-402 STORM MANHOLE	DECIDUOUS SHRUB
TYPE SW-301 SANITARY MANHOLE	CONIFEROUS SHRUB
STORM/SANITARY CLEANOUT	ELECTRIC POWER POLE
WATER VALVE	GUY ANCHOR
FIRE HYDRANT ASSEMBLY	STREET LIGHT
SIGN	POWER POLE W/ TRANSFORMER
DETECTABLE WARNING PANEL	UTILITY POLE W/ LIGHT
WATER CURB STOP	ELECTRIC BOX
STORM SEWER STRUCTURE NO.	ELECTRIC TRANSFORMER
STORM SEWER PIPE NO.	ELECTRIC MANHOLE OR VAULT
SANITARY SEWER STRUCTURE NO.	TRAFFIC SIGN
SANITARY SEWER PIPE NO.	TELEPHONE JUNCTION BOX
SANITARY SEWER WITH SIZE	TELEPHONE MANHOLE/VAULT
SANITARY SERVICE	TELEPHONE POLE
STORM SEWER	GAS VALVE BOX
STORM SERVICE	CABLE TV JUNCTION BOX
WATERMAIN WITH SIZE	CABLE TV MANHOLE/VAULT
WATER SERVICE	MAIL BOX
SAWCUT (FULL DEPTH)	BENCHMARK
SILT FENCE	SOIL BORING
USE AS CONSTRUCTED	UNDERGROUND TV CABLE
TOP OF PROPOSED GROUND	GAS MAIN
MINIMUM OPENING ELEVATION	FIBER OPTIC
	UNDERGROUND TELEPHONE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	FIELD TILE
	SANITARY SEWER W/ SIZE
	STORM SEWER W/ SIZE
	WATER MAIN W/ SIZE

OWNER

DEERY, DEERY, & DEERY, LLC
7404 UNIVERSITY AVE
CEDAR FALLS, IOWA 50613

DEVELOPER

THE ROSE COMPANIES
7103 CHANCELLOR DRIVE
CEDAR FALLS, IOWA 50613
CONTACT: FRED ROSE
PH: 319-961-6100

ENGINEER / SURVEYOR

CIVIL DESIGN ADVANTAGE, LLC
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
CONTACT: EMILY HARDING
PH: 515-369-4400

ZONING

EXISTING: LOT 1: C-1
LOT 2: C-1 & R-4

SUBMITTALS

FIRST SUBMITTAL: 11/16/16
SECOND SUBMITTAL: 04/11/17
THIRD SUBMITTAL: 05/01/17
FOURTH SUBMITTAL: 10/19/17
FIFTH SUBMITTAL: 11/07/17
SIXTH SUBMITTAL: 11/22/17
SEVENTH SUBMITTAL: 12/11/17
FINAL SUBMITTAL: 01/09/18
REVISED: 06/18/18
AS-BUILT: 12/07/18

PLAT DESCRIPTION

A PART OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 32, TOWNSHIP 79 NORTH, RANGE 26 WEST OF THE FIFTH PRINCIPAL MERIDIAN IN DALLAS COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

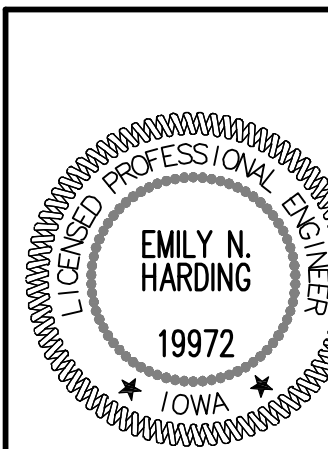
COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 32; THENCE SOUTH 00°20'02" WEST ALONG THE EAST LINE OF SAID SECTION 32, A DISTANCE OF 98.28 FEET TO THE SOUTHEAST CORNER OF RIGHT OF WAY CONDEMNATION RECORDED IN BOOK 10 PAGE 260 AND THE POINT OF BEGINNING; THENCE SOUTH 00°20'02" WEST ALONG SAID EAST LINE, 776.93 FEET; THENCE WESTERLY ALONG A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 550.00 FEET, WHOSE ARC LENGTH IS 6.79 FEET AND WHOSE CHORD BEARS NORTH 86°53'51" WEST, 6.79 FEET; THENCE NORTH 86°32'38" WEST, 145.49 FEET; THENCE WESTERLY ALONG A CURVE CONCAVE SOUTHERLY WHOSE RADIUS IS 550.00 FEET, WHOSE ARC LENGTH IS 147.71 FEET AND WHOSE CHORD BEARS SOUTH 85°45'44" WEST, 147.26 FEET; THENCE SOUTH 78°04'07" WEST, 32.97 FEET; THENCE WESTERLY ALONG A CURVE CONCAVE NORTHERLY WHOSE RADIUS IS 550.00 FEET, WHOSE ARC LENGTH IS 113.35 FEET AND WHOSE CHORD BEARS SOUTH 83°58'21" WEST, 113.14 FEET; THENCE SOUTH 89°52'35" WEST, 878.21 FEET TO THE WEST LINE OF SAID NORTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00°19'32" EAST ALONG SAID WEST LINE, 800.71 FEET TO THE SOUTH LINE OF THE ACQUISITION PLAT RECORDED IN BOOK 1998 PAGE 60; THENCE NORTH 86°07'40" EAST ALONG SAID SOUTH LINE, 494.13 FEET; THENCE SOUTH 89°34'01" EAST ALONG SAID SOUTH LINE, 776.79 FEET; THENCE SOUTH 60°56'09" EAST, 59.56 FEET ALONG THE SOUTH LINE OF SAID CONDEMNATION PLAT RECORDED IN BOOK 10 PAGE 260 TO THE POINT OF BEGINNING AND CONTAINING 24.80 ACRES (1,080,442 SQUARE FEET).

BENCHMARKS

DALLAS COUNTY GPS CONTROL POINT # 120, EAST SIDE OF U PLACE 150 FEET +/- SOUTH OF 300TH STREET.
ELEVATION=1011.76

CIVIL DESIGN ADVANTAGE
3405 SE CROSSROADS DR. SUITE G GRIMES, IOWA 50111
PH: (515) 369-4400 Fax: (515) 369-4410
PROJECT NO. 1512.634

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

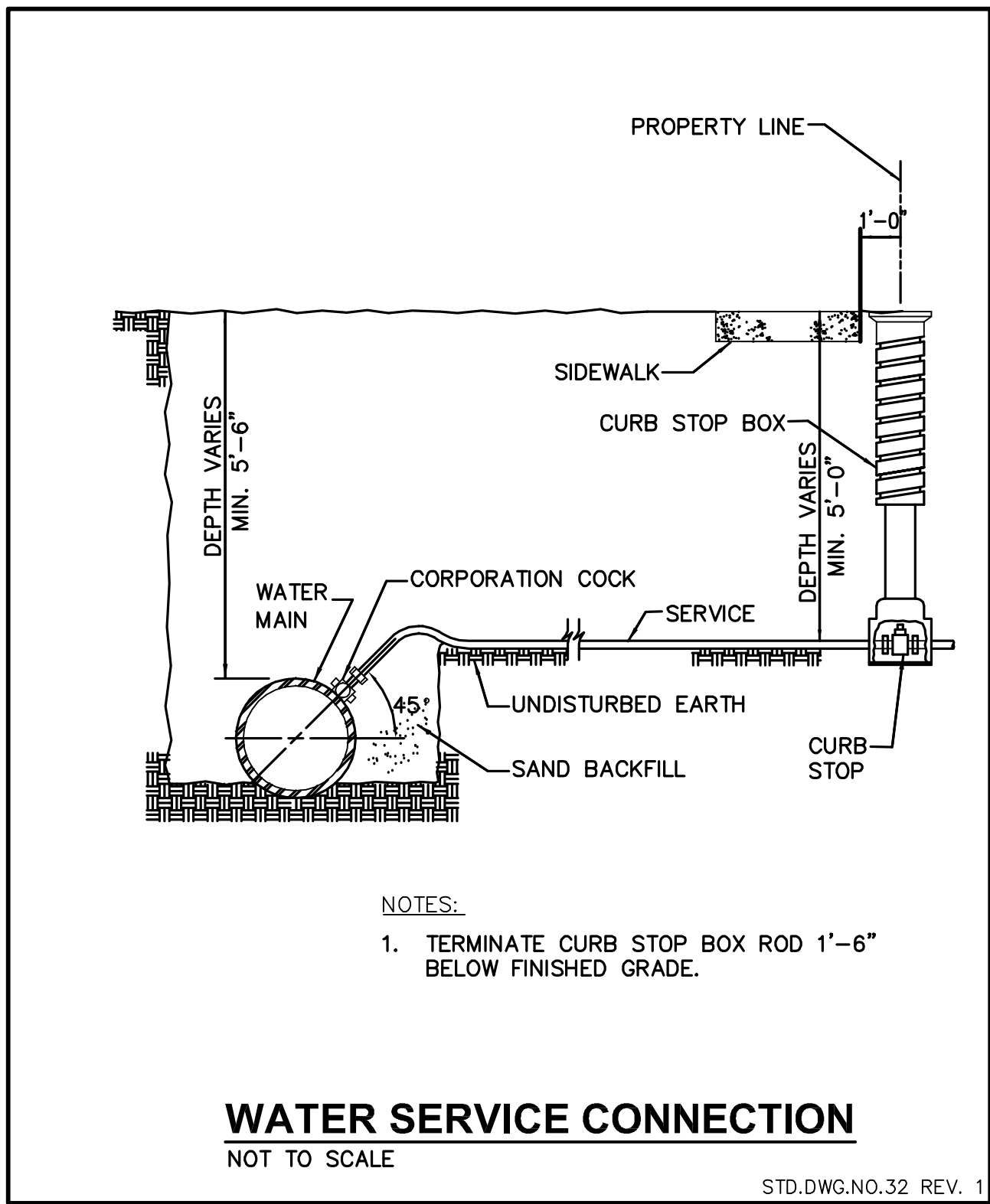
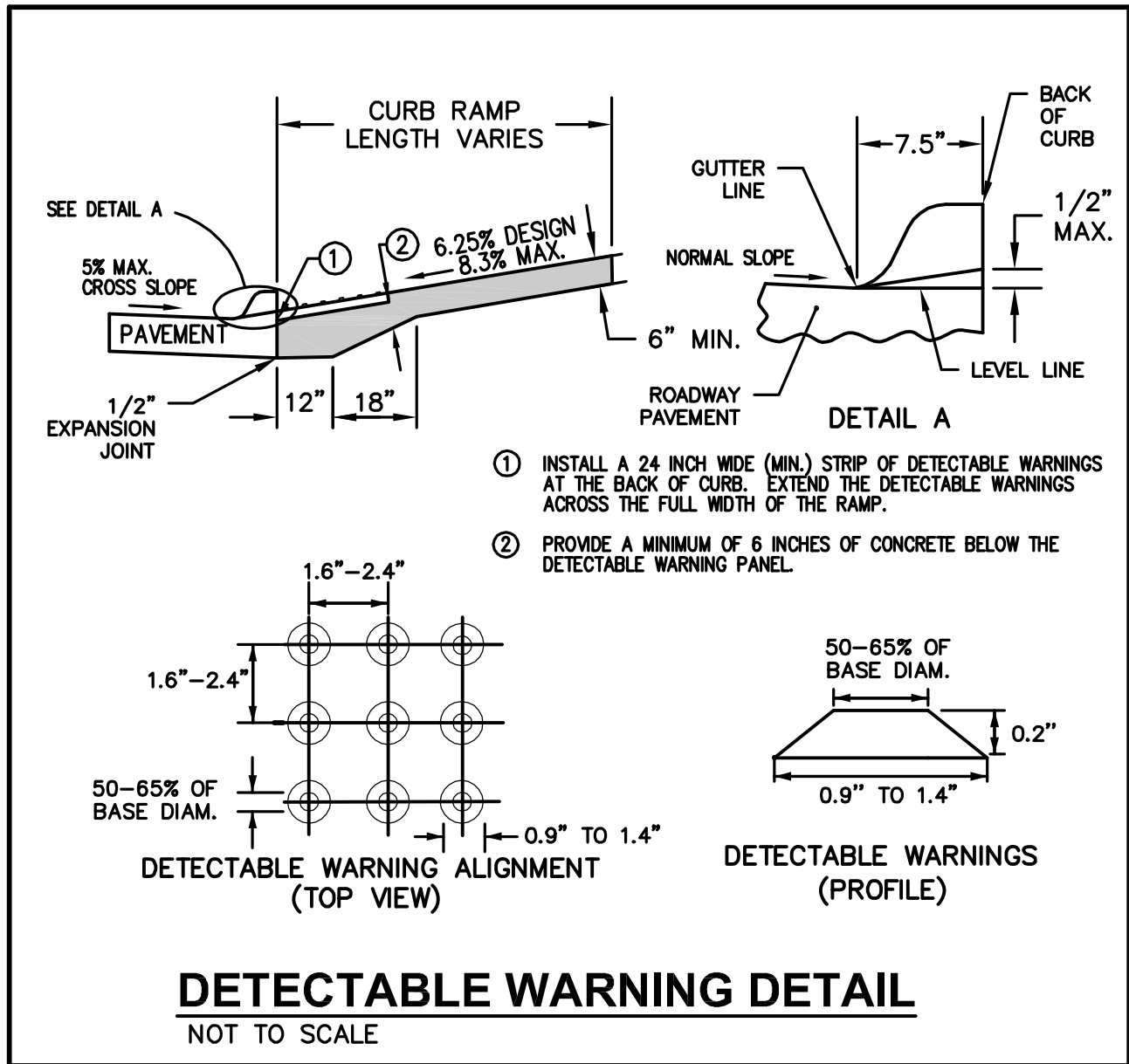
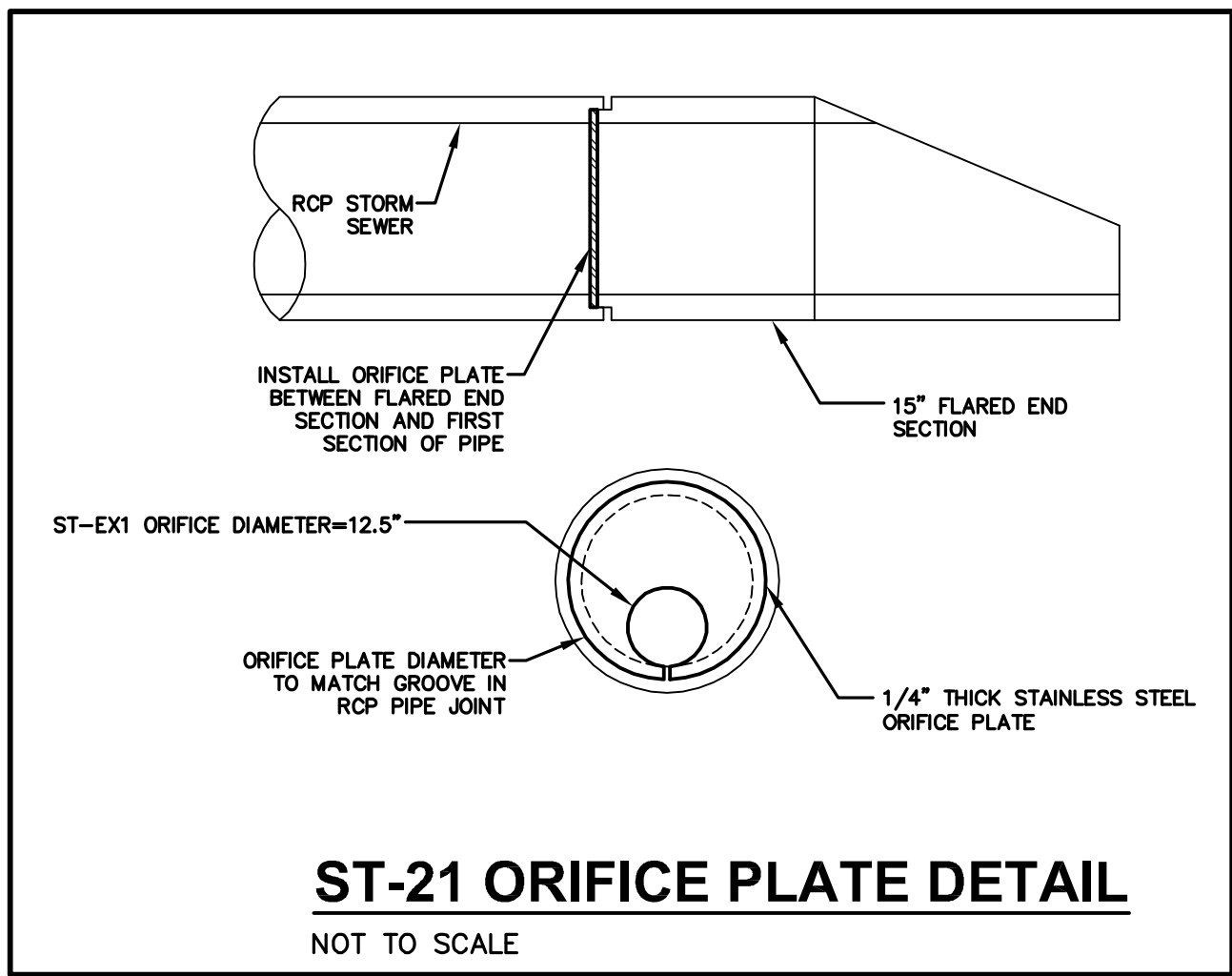
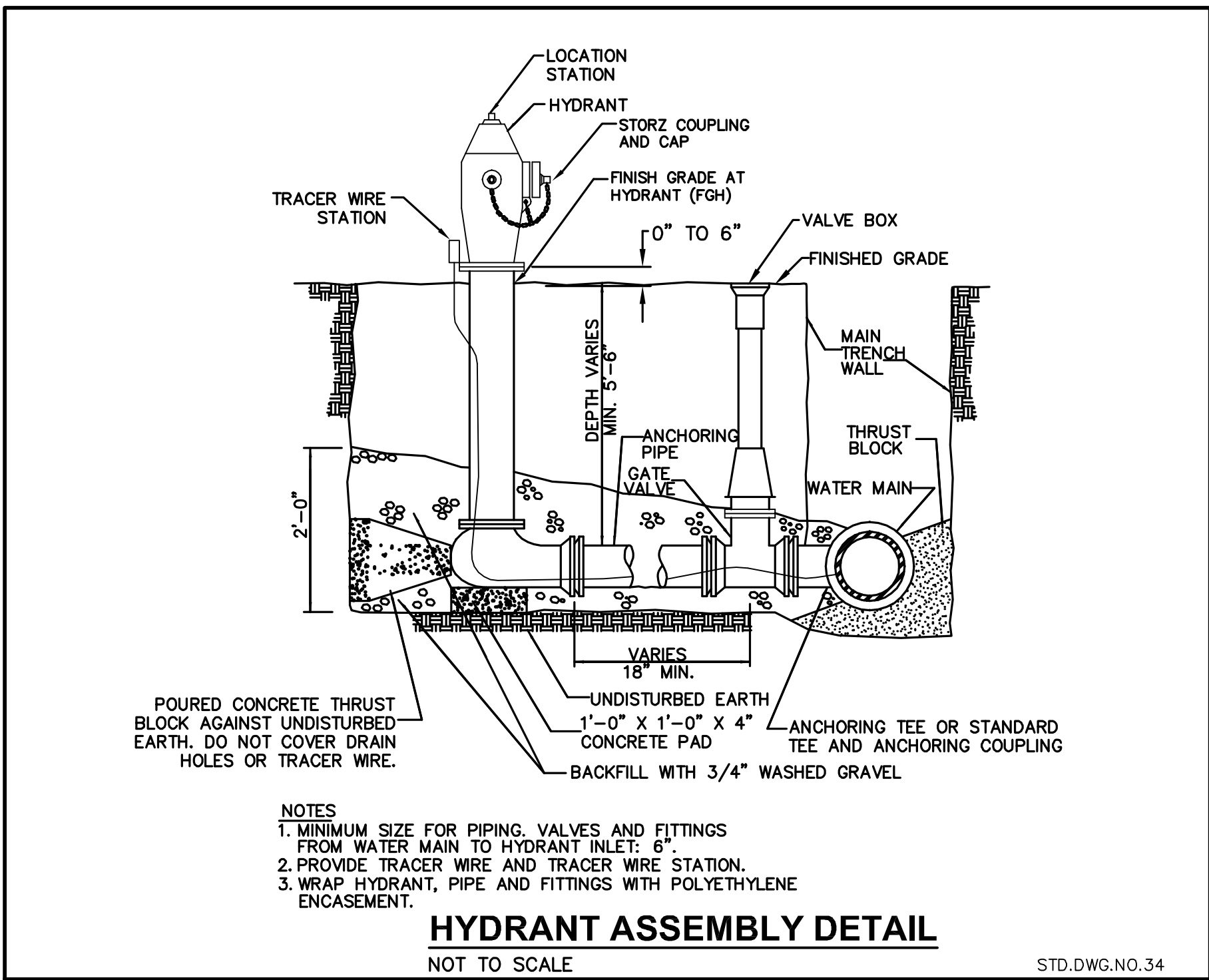
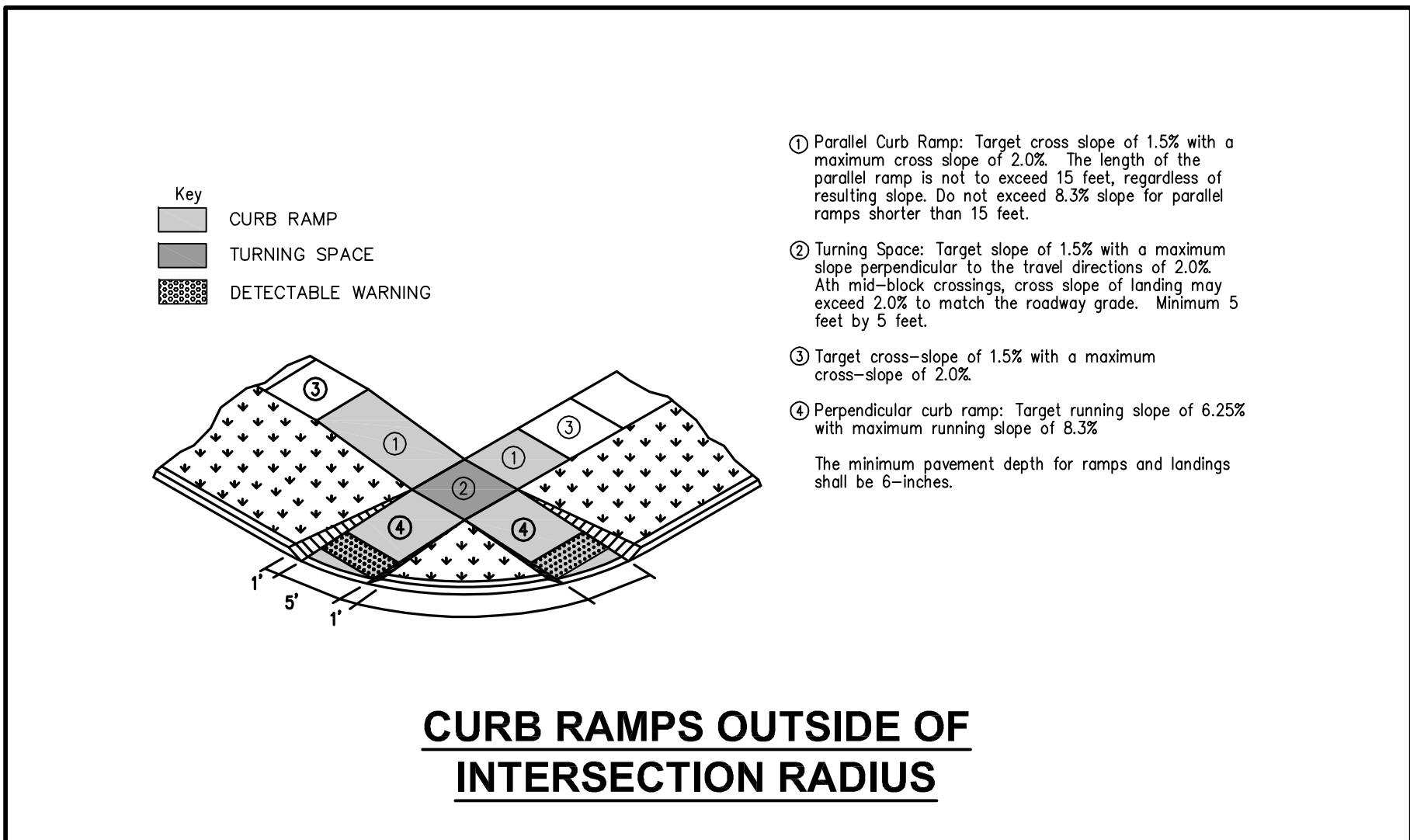
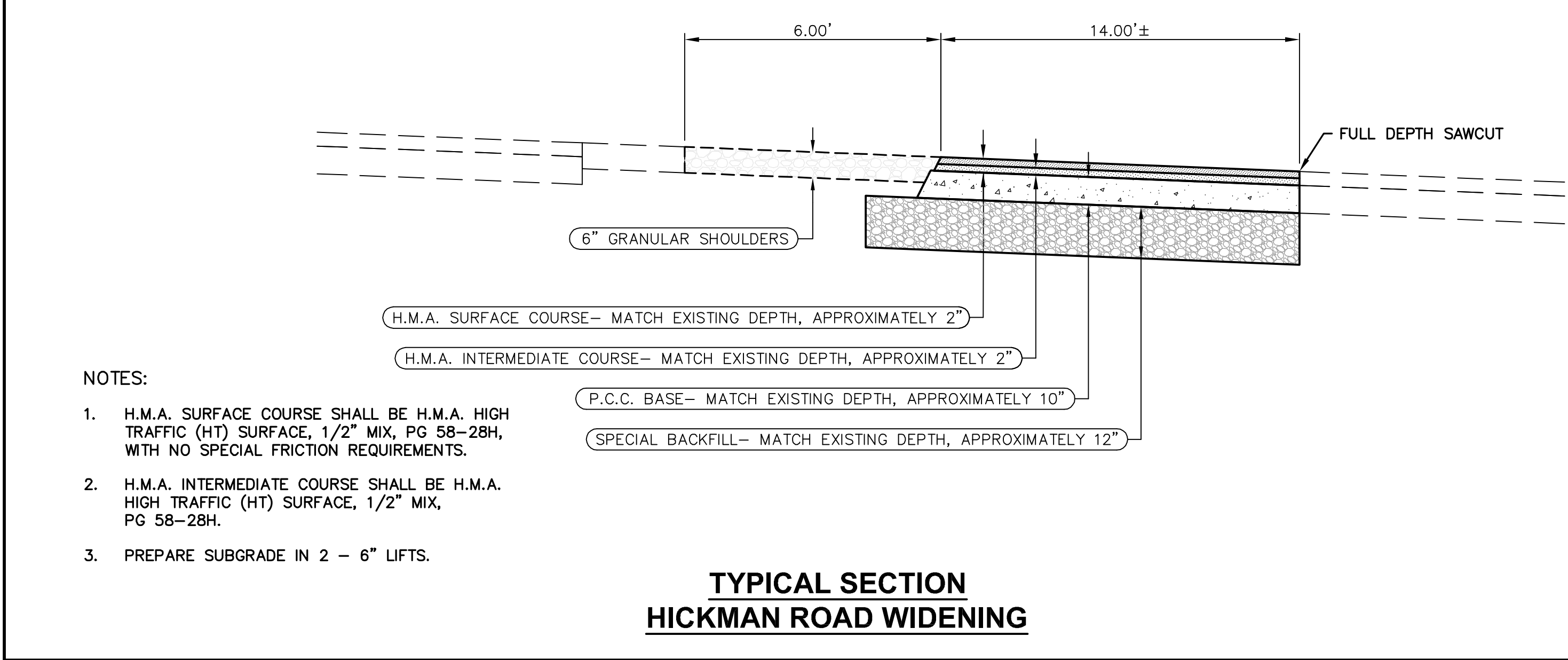
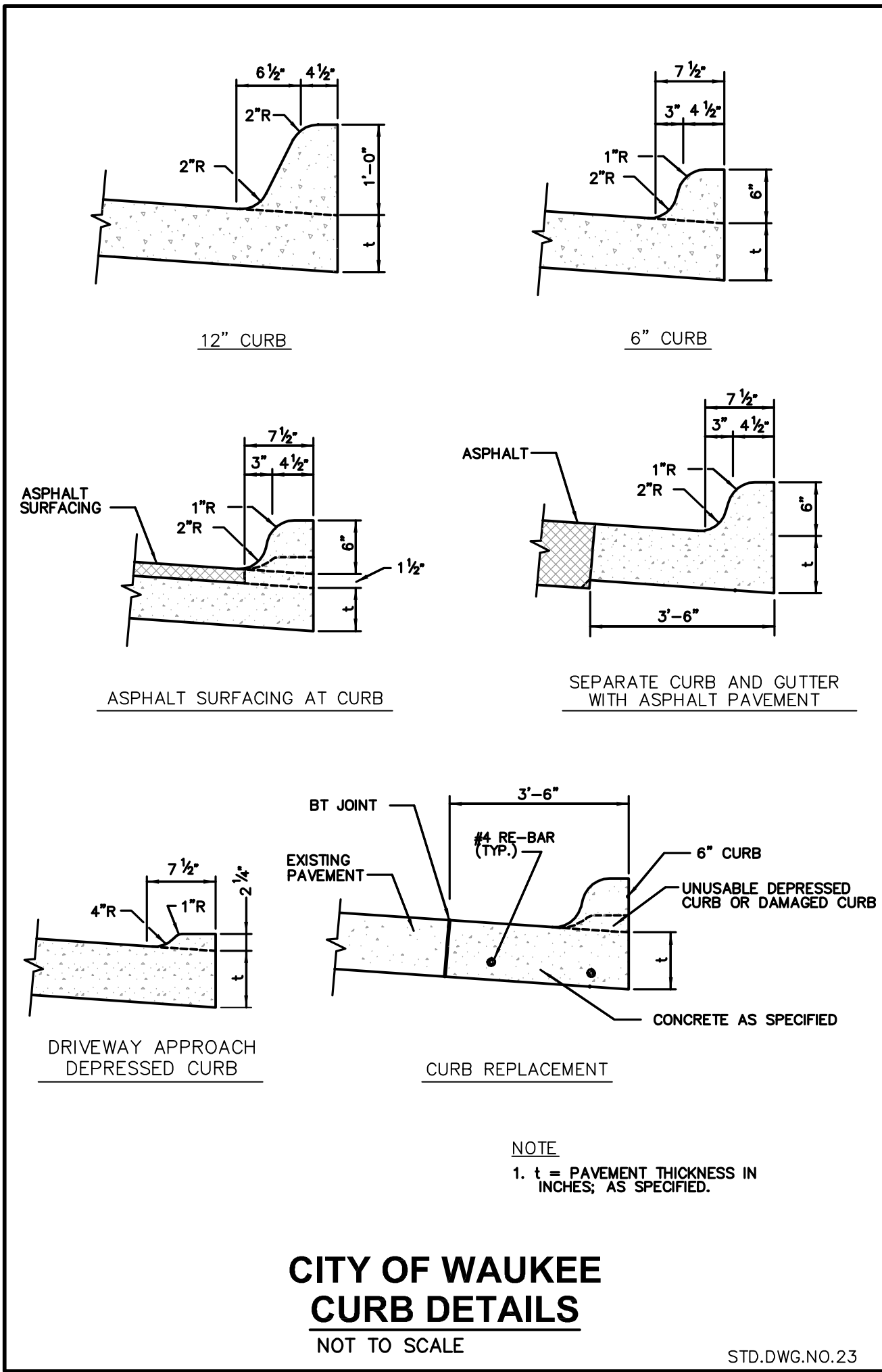


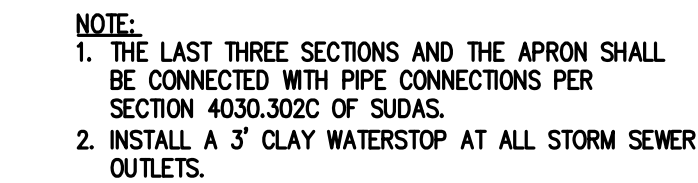
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

EMILY N. HARDING, P.E. DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2017
PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS





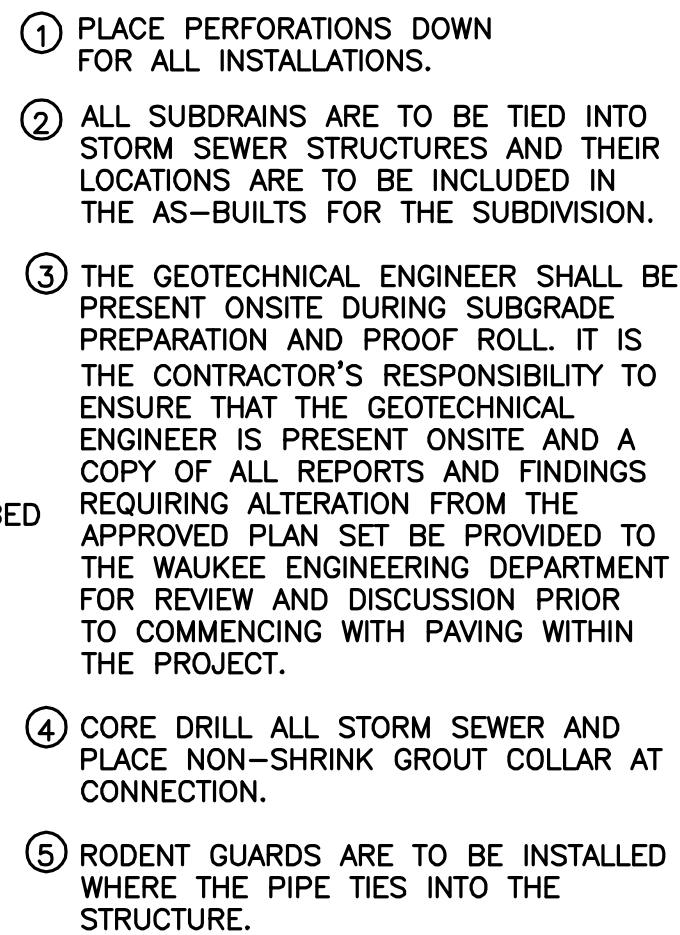
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END TYPES (REFER TO DETAILS):

- (A) SUBDRAIN END OF LINE CLEANOUT – REFER TO FIG. 4040.232
SUBDRAIN CLEANOUT FOR CONSTRUCTION DETAILS.
- (B) SUBDRAIN OUTLET TO STORM INTAKE



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REINFORCING BAR LIST

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ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	HICKMAN	10TH	MAPLE	INTERIOR	TOTAL
1	COMBINED CLEARING AND GRUBBING	LS	1	1	1	1	1
2	STRIPPING, SALVAGING AND SPREAD TOPSOIL	LS	1	1	1	1	1
3	CLASS 10 EXCAVATION	LS	1	1	1	1	1
4	SUBGRADE PREPARATION	SY	853	5744			6597
5	SPECIAL BACKFILL	CY	313				313
6	SANITARY SEWER GRAVITY MAIN, 8 IN. DIA.	LF		367	1220		1587
7	STORM SEWER, TRENCHED, 15 IN. RCP	LF	104	272	10		386
8	STORM SEWER, TRENCHED, 18 IN. RCP	LF			40		40
9	STORM SEWER, TRENCHED, 24 IN. RCP	LF	88				88
10	STORM SEWER, 15 IN. RCP APRON W/ FOOTING & APRON GUARD	EA	1	1	1		3
11	STORM SEWER, 18 IN. RCP APRON W/ FOOTING & APRON GUARD	EA			1		1
12	STORM SEWER, 24 IN. RCP APRON W/ FOOTING & APRON GUARD	EA	2				2
13	WATER MAIN, 8 IN. DIA	LF		332			332
14	WATER MAIN, 12 IN. DIA	LF		930			930
15	WATER SERVICE	EA		2			2
16	VALVE, 8 IN. DIA	EA		2			2
17	VALVE, 12 IN. DIA	EA		3			3
18	FIRE HYDRANT ASSEMBLY	EA		3			3
19	TEMPORARY FIRE HYDRANT ASSEMBLY	EA		3			3
20	MANHOLE, SW-301, 48 IN. (SANITARY SEWER)	EA		2	5		7
21	MANHOLE, SW-401, 48 IN. (STORM SEWER)	EA		1			1
22	MANHOLE, SW-401, 60 IN. (STORM SEWER)	EA		1			1
23	INTAKE, SW-503	EA		1			1
24	INTAKE, SW-505	EA	1				1
25	INTAKE, SW-512	EA		1			1
26	INTAKE, SW-513	EA			1		1
27	SUBDRAIN, PERFORATED HDPE, 6 IN. DIA.	LF		744			
28	SUBDRAIN CLEANOUT, HDPE, 6 IN. DIA.	EA		7			
29	HOT MIX ASPHALT HIGH TRAFFIC, BASE COURSE, 3/4 IN. MIX, PG 58-28H	TON		14			14
30	HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, PG 58-28H	TON	95				95
31	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, PG 58-28H	TON	95	14			109
32	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	0.95	0.05			1
33	PAVEMENT, 7 IN. P.C.C.	SY		1087			1087
34	PAVEMENT, 9 IN. P.C.C.	SY		3380			3380
35	PAVEMENT, 10 IN. P.C.C.	SY	1493	867			2360
36	PAVEMENT, 30 IN. P.C.C. CURB AND GUTTER	LF	152				152
37	PAVEMENT, 6 IN. P.C.C. MEDIAN	SY	11				11
38	PAVEMENT, 6 IN. P.C.C. DRIVEWAY	SY		53			53
39	PAVEMENT, 4 IN. P.C.C. SIDEWALK	SY		60			60
40	PAVEMENT, 6 IN. P.C.C. SHARED USE PATH	SY		921			921
41	PAVEMENT, 6 IN. P.C.C. SIDEWALK RAMPS	SY	31	59			90
42	DETECTABLE WARNING PANELS	SF	40	214			254
43	GRANULAR SHOULDER, TYPE A	TON	153				153
44	TRAFFIC SIGNAL RELOCATE AND PEDESTRIAN PUSH BUTTON POST AND FOUNDATION	LS	1				1
45	PAINTED PAVEMENT MARKINGS, DURABLE	STA	7	43			50
46	PAINTED SYMBOLS AND LEGENDS, DURABLE	EA	2	2			4
47	GROOVES CUT FOR PAVEMENT MARKINGS	STA	7	43			50
48	GROOVES CUT FOR SYMBOLS AND LEGENDS	EA	2	2			4
49	SEEDING, FERTILIZING, AND MULCHING	AC				16.35	16.35
50	SODDING	SQ	81	304			385
51	TRAFFIC CONTROL	LS	1	1	1	1	1
52	EROSION CONTROL	LS	1	1	1	1	1
53	ROCK OUTLET PROTECTION, CLASS 'E' RIP RAP	TON		17	11		28
54	SITE DEMOLITION	LS				1	1
55	PAVEMENT REMOVAL	SY	362	1946			2308

ESTIMATE REFERENCE INFORMATION

Data listed below is for informational purpose only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
	THE MOST RECENT EDITION OF THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2017 EDITION OF SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.
	ALL REFERENCES TO SECTIONS AND FIGURES ARE TO THE SUDAS STANDARD SPECIFICATIONS. CITY OF WAUKEE STANDARD DETAILS SHALL GOVERN IF ANY DISCREPANCIES.
1	CLEAR AND GRUB ALL AREAS AFFECTED BY GRADING OPERATIONS. THE CONTRACTOR SHALL FIELD VERIFY CLEARING AND GRUBBING NEEDS PRIOR TO BIDDING. INCLUDES REMOVAL OF HOUSES, BUILDINGS, APPURTENANCES, TREES AND UTILITIES INCLUDING WELL ABANDONMENTS ASSOCIATED WITH SAID HOUSES. REMOVAL OF ALL FENCES AND TREES INCLUDED IN THIS BID ITEM. ALL MATERIAL THAT IS REMOVED FROM THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
2	STRIP, SALVAGE AND RE-SPREAD TOPSOIL PER SECTION 2010 OF SUDAS STANDARD SPECIFICATIONS OR PROVIDE THE CITY WITH A TOPSOIL PRESERVATION PLAN. TOPSOIL TO BE RESPREAD SHALL BE FREE OF ROCK AND DEBRIS AND BE SUITABLE FOR THE GROWTH OF GRASS. COORDINATE LOCATION OF STOCKPILE WITH OWNER.
3	EXCAVATION INCLUDES ALL WORK NECESSARY TO ACHIEVE PROPER GRADES AS SHOWN IN THE PLANS. NO PAYMENT FOR OVERHAUL SHALL BE ALLOWED.
4	REFER TO SHEET 2 FOR TYPICAL LOCATIONS AND THICKNESS.
5	SANITARY SEWER FOR 8" SHALL BE PVC TRUSS PIPE. ANY CONNECTIONS TO EXISTING SANITARY SEWER SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 3010.101 AND 3010.103 FOR PIPE EMBEDMENT DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. EXISTING SANITARY SEWER WILL NEED TO BE RETESTED AFTER SADDLE WYE INSTALLATION.
6-25	REFER TO FIGURE 3010.102 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. CONNECTIONS TO EXISTING STORM SEWER PIPE AND STRUCTURES SHALL BE CONSIDERED INCIDENTAL. WRAP ALL PIPE JOINTS IN ENGINEERING FABRIC. CLEAN AND TELEWISE SANITARY AND STORM SEWER PRIOR TO PAVING AND PROVIDE TELEVISING REPORT TO CITY IN HARD COPY AND DISC FORMAT. TELEVISING SHALL BE CONSIDERED INCIDENTAL. ALL STORM SEWER PIPE THAT CROSSES OVER WATERMAIN SHALL HAVE O-RING GASKETS JOINT RATED AT 13 PSI OR GREATER. O-RING GASKET JOINTS SHALL BE INSTALLED ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER TO THE SEWER IS AT LEAST 10 FEET.
10-12	THE LAST THREE SECTIONS AND APRON SHALL BE CONNECTED WITH PIPE CONNECTORS. REFER TO FIG. 4030.221 - RCP APRON SECTION FOOTING FOR FOOTING CONSTRUCTION DETAILS. APRON GUARD REQUIRED ON ALL APRONS. RCP APRON FOOTING, PIPE APRON GUARD AND PIPE CONNECTORS TO BE CONSIDERED INCIDENTAL. INSTALL CLAY WATERSTOPS AT ALL RCP APRONS, MIN. 3' LONG.
13-18	REFER TO FIG. 3010.101 AND FIG. 3010.104 FOR TRENCH BEDDING AND BACKFILL ZONE DETAILS. GRANULAR PIPE BEDDING SHALL BE CONSIDERED INCIDENTAL. REFER TO FIG. 5010.101 FOR THRUST BLOCK DETAILS. REFER TO FIG. 5010.102 FOR TRACER SYSTEM DETAILS. ALL FITTINGS, POLYETHYLENE WRAP, THRUST BLOCKS, AND TRACER WIRE SYSTEM SHALL BE CONSIDERED INCIDENTAL.
15	REFER TO SHEET 15 FOR LOCATION. MATCH SIZES OF EXISTING SERVICES.
18-19	REFER TO CITY OF WAUKEE STD. DWG 34 AND SHEET 3 FOR FIRE HYDRANT CONSTRUCTION DETAILS. INCLUDES ANCHORING TEE, ANCHORING ELBOW, GATE VALVE, VALVE BOX, ANCHORING PIPE, ANCHORING COUPLING, ELBOWS, STORZ FITTINGS, POLYETHYLENE WRAP, THRUST BLOCK AND TRACER WIRE SYSTEM AND FIRE HYDRANT.
20	REFER TO FIG. 6010.301 - CIRCULAR SANITARY SEWER MANHOLE (SW-301) FOR CONSTRUCTION DETAILS. CASTINGS IN PAVEMENT SHALL BE TYPE B RING AND COVER. WHEN CASTINGS ARE NOT IN PAVEMENT, INSTALL MANHOLE CONE SECTION, MANHOLE STEPS, AND RING/COVER CASTING SUCH THAT SEPARATION IS MAINTAINED BETWEEN MANHOLE COVERS AND PAVED AREAS (BACK OF CURB, SIDEWALK PAVEMENT, SIDEWALK APPROACHES/RAMPS). ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
21-22	REFER TO FIG. 6010.401 - CIRCULAR STORM SEWER MANHOLE (SW-401) FOR CONSTRUCTION DETAILS. MANHOLE INSIDE DIAMETERS GREATER THAN 48" SHALL BE CONSIDERED INCIDENTAL.
23-24	REFER TO FIG. 6010.514 - BOXOUTS FOR GRATE INTAKES. REFER TO FIG. 6010.603 - CASTINGS FOR GRATE INTAKES FOR TYPE R GRATE DETAILS AND FIG. 6010.602 - CASTINGS FOR STORM SEWER MANHOLES FOR TYPE E CASTING DETAILS. THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR INTAKE CASTINGS IS 6 INCHES. THE MAXIMUM HEIGHT OF ADJUSTING RINGS ALLOWED FOR MANHOLE CASTINGS IS 12 INCHES.
23	REFER TO FIG 6010.503 - SINGLE GRATE INTAKE WITH MANHOLE (SW-503) FOR CONSTRUCTION DETAILS.
24	REFER TO FIG 6010.505 - DOUBLE GRATE INTAKE (SW-505) FOR CONSTRUCTION DETAILS.
25	REFER TO FIG 6010.512 - CIRCULAR AREA INTAKE (SW-512) FOR CONSTRUCTION DETAILS.
26	REFER TO FIG 6010.513 - OPEN-SIDED AREA INTAKE (SW-513) FOR CONSTRUCTION DETAILS.
27	REFER TO TABULATION OF LONGITUDINAL SUBDRAIN AND 6" PERFORATED SUBDRAIN DETAIL ON SHEET 4 FOR CONSTRUCTION DETAILS. REFER TO SHEETS 13-14 FOR LOCATION. CONNECTIONS TO STORM SEWER AND INTAKES SHALL BE CONSIDERED INCIDENTAL.

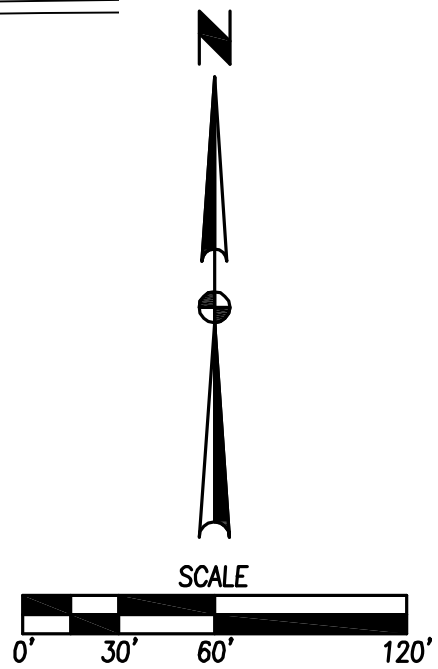
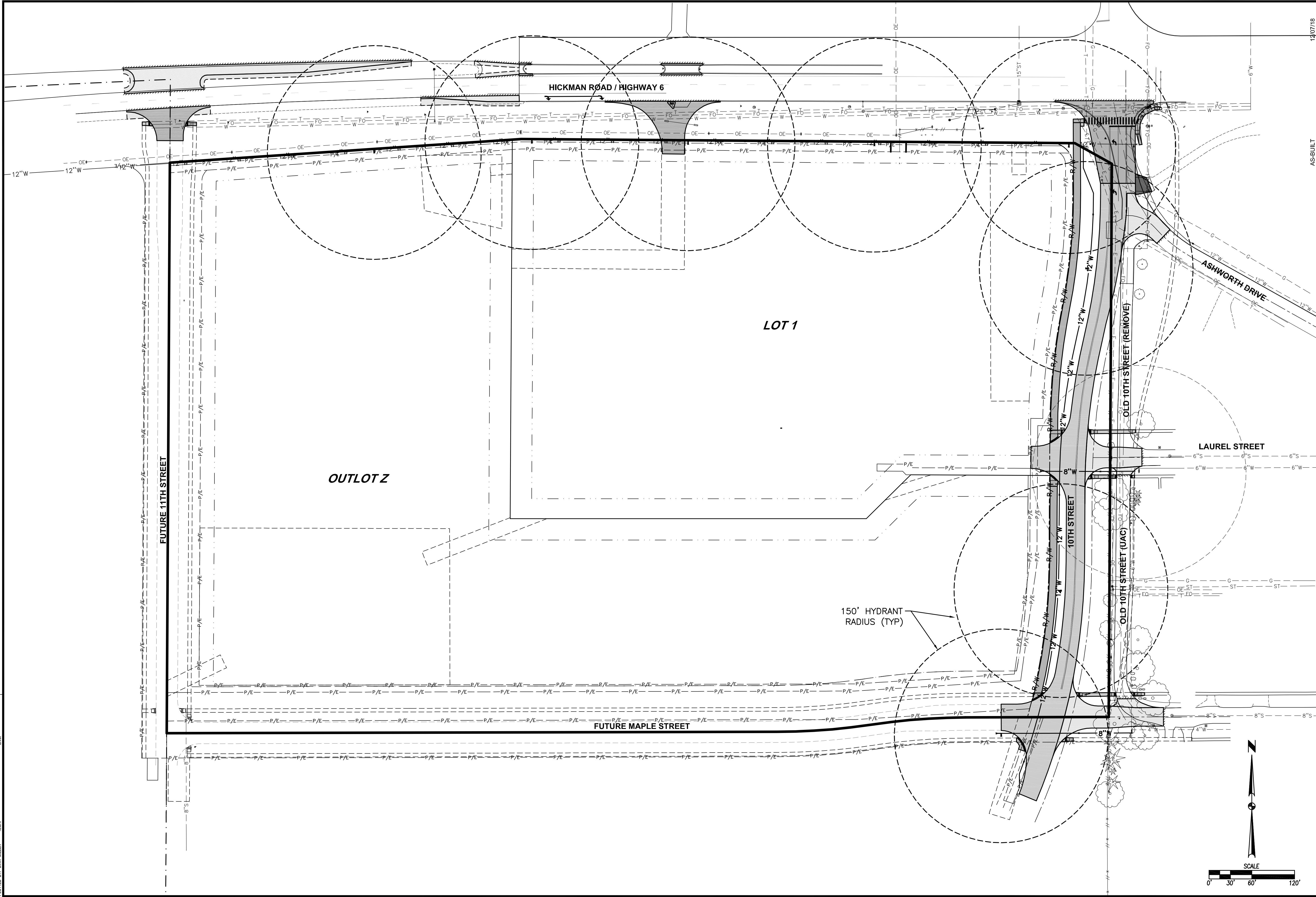
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28	REFER TO FIGURE 4040.232 – SUBDRAIN CLEANOUTS FOR CLEANOUT DETAILS.																																																																														
29–31	QUANTITIES INCLUDE MATERIAL FOR TURN LANE. TEST STRIPS SHALL BE INCORPORATED INTO THE BASE COURSE. REFER TO SHEET 3 FOR TYPICAL SECTION. THE INTENT OF THE HMA OVERLAY IS TO COMPLETE EACH COURSE (INTERMEDIATE AND SURFACE ON HICKMAN OR BASE AND SURFACE ON 10TH) IN ONE CONTINUOUS OPERATION.																																																																														
33–35	REFER TO FIG. 7010.101 – JOINTS (PV–101) FOR JOINT DETAILS. MAXIMUM CD AND C JOINT SPACING IS 15 FEET.																																																																														
35	REFER TO SHEET 3 FOR TYPICAL SECTION OF HICKMAN ROAD WIDENING. REFER TO D.O.T. STANDARD ROAD PLAN PV–20 – RAISED ISLANDS FOR CONSTRUCTION DETAILS. REFER TO SHEET 17 FOR LOCATION.																																																																														
36	REFER TO IOWA D.O.T. STANDARD ROAD PLAN PV–102 – PCC CURB DETAILS, 6 IN. SLOPED CURB FOR CONSTRUCTION DETAILS. REFER TO SHEET 16 FOR LOCATION. PAVEMENT TO BE 10 IN. P.C.C.																																																																														
37	REFER TO D.O.T. STANDARD ROAD PLAN PV–20 – RAISED ISLANDS FOR CONSTRUCTION DETAILS. REFER TO SHEET 18 FOR LOCATION.																																																																														
38	REFER TO FIG. 7030.101 – CONCRETE DRIVEWAY, TYPE A FOR CONSTRUCTION DETAILS. REFER TO SHEET 16 FOR LOCATION.																																																																														
39–42	REFER TO FIG. 7030.204 – GENERAL SIDEWALK AND ACCESSIBLE RAMP DETAILS AND FIG. 7030.208 – CURB RAMPS WITHIN INTERSECTION RADIUS FOR CLASS B OR C SIDEWALK FOR CONSTRUCTION DETAILS. DETECTABLE WARNING PANELS TO BE ARMOR TILE, ADA SOLUTIONS OR APPROVED EQUAL, BRICK RED IN COLOR. ACCESSIBLE CURB RAMPS INCLUDING TURNING SPACES SHALL BE 6" THICK P.C.C.																																																																														
43	REFER TO SHEET 3 FOR TYPICAL LOCATIONS AND THICKNESS.																																																																														
44	REFER TO SHEET 16 FOR INFORMATION REGARDING RELOCATING THE TRAFFIC SIGNAL. REFER TO FIG. 8010.102 – TRAFFIC SIGNAL POLE FOUNDATION SHEET 2 AND FIG. 8010.106 – PEDESTAL POLE AND PEDESTRIAN POST DETAIL AND SHEET 16 FOR CONSTRUCTION DETAILS. THIS BID ITEM INCLUDES ALL WORK NECESSARY TO RELOCATE TRAFFIC SIGNAL AND INSTALL PEDESTRIAN PUSH BUTTON POST AND FOUNDATION INCLUDING SIGNS AND APPURTENANCES NEEDED TO COMPLETE THIS WORK.																																																																														
45–48	REFER TO DOT STD. RD. PLAN PM–110 – LINE TYPES. ALL PAINTED PAVEMENT MARKINGS AND SYMBOLS SHALL BE DURABLE LIQUID PAVEMENT MARKING (LPM) AND INSTALLED IN GROOVES CUT INTO THE PAVEMENT SURFACE. <table><tr><td>QUANTITY</td><td>STA</td><td>to</td><td>STA</td><td>FACTOR</td><td></td></tr><tr><td colspan="6">HICKMAN ROAD</td></tr><tr><td>SLW4 SOLID LANE LINE (WHITE)</td><td>102+01, 41' LT</td><td>–</td><td>103+41, 41' LT</td><td>140 x 1.0</td><td>140</td></tr><tr><td></td><td>105+95, 2' LT</td><td>–</td><td>108+46, 2' LT</td><td>251 x 1.0</td><td>251</td></tr><tr><td>ELW4 EDGE LINE RIGHT (WHITE)</td><td>105+01, 3' RT</td><td>–</td><td>106+40, 3' RT</td><td>139 x 1.0</td><td>139</td></tr><tr><td>SPW6 SLOPED CURB 6" (WHITE)</td><td>108+46, 0' LT</td><td>–</td><td>108+64, 10' RT</td><td>46 x 3.4</td><td>157</td></tr><tr><td></td><td></td><td></td><td></td><td>TOTAL</td><td>687</td></tr><tr><td colspan="6">10TH STREET</td></tr><tr><td>SLW4 SOLID LANE LINE (WHITE)</td><td>25+65, 11' LT</td><td>–</td><td>26+80, 11' LT</td><td>115 x 1.0</td><td>115</td></tr><tr><td>DCY4 DOUBLE CENTERLINE (YELLOW)</td><td>18+80, 24' LT</td><td>–</td><td>26+80, 24' LT</td><td>800 x 2.0</td><td>1600</td></tr><tr><td>SLW2 STOP LINE (WHITE)</td><td>26+80, 24' LT</td><td>–</td><td>26+80, 7' RT</td><td>31 x 6.0</td><td>186</td></tr><tr><td>CBW6 CROSSWALK BAR (WHITE)</td><td>26+88, 53' LT</td><td>–</td><td>26+88, 7' RT</td><td>160 x 15.0</td><td>2400</td></tr><tr><td></td><td></td><td></td><td></td><td>TOTAL</td><td>4307</td></tr></table>	QUANTITY	STA	to	STA	FACTOR		HICKMAN ROAD						SLW4 SOLID LANE LINE (WHITE)	102+01, 41' LT	–	103+41, 41' LT	140 x 1.0	140		105+95, 2' LT	–	108+46, 2' LT	251 x 1.0	251	ELW4 EDGE LINE RIGHT (WHITE)	105+01, 3' RT	–	106+40, 3' RT	139 x 1.0	139	SPW6 SLOPED CURB 6" (WHITE)	108+46, 0' LT	–	108+64, 10' RT	46 x 3.4	157					TOTAL	687	10TH STREET						SLW4 SOLID LANE LINE (WHITE)	25+65, 11' LT	–	26+80, 11' LT	115 x 1.0	115	DCY4 DOUBLE CENTERLINE (YELLOW)	18+80, 24' LT	–	26+80, 24' LT	800 x 2.0	1600	SLW2 STOP LINE (WHITE)	26+80, 24' LT	–	26+80, 7' RT	31 x 6.0	186	CBW6 CROSSWALK BAR (WHITE)	26+88, 53' LT	–	26+88, 7' RT	160 x 15.0	2400					TOTAL	4307
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49	THE SITE SEEDING SHALL CONFORM TO THE SPECIFICATION FOR TYPE (4) URBAN TEMPORARY EROSION CONTROL SEED MIXTURE. ONLY SEEDING OF THE OUTLOT WILL BE ALLOWED. SOD WILL BE REQUIRED WITHIN THE PUBLIC AND DOT RIGHT–OF–WAY AND THE ENTIRETY OF LOT 1.																																																																														
50	SOD WILL BE REQUIRED WITHIN THE PUBLIC AND DOT RIGHT–OF–WAY AND THE ENTIRETY OF LOT 1. LOT 1 WILL NEED TO BE SODDED UPON FINAL COMPLETION OF SITE IMPROVEMENTS.																																																																														
51	CONTRACTOR TO PROVIDE AND DEPLOY THE APPROPRIATE NUMBER OF PORTABLE VARIABLE MESSAGE BOARDS A MINIMUM OF 7 CALENDAR DAYS BEFORE ANY LANE CLOSURE OR STREET CLOSURE GOES INTO EFFECT. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED. CONTRACTOR SHALL PROVIDE A DETOUR AND SIGNING PLAN TO CITY STAFF FOR APPROVAL PRIOR TO THE CLOSURE OF 10TH STREET. THE CONTRACTOR SHALL HAVE 30 CALENDAR DAYS TO COMPLETE 10TH STREET IMPROVEMENTS ONCE STREET CLOSURE IS IN PLACE.																																																																														
52	REFER TO SHEETS 10 AND 11 OF THE CONSTRUCTION DRAWINGS FOR EROSION AND SEDIMENT CONTROLS. REFER TO SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR SPECIFIC DETAILS. <u>EROSION CONTROL QUANTITIES</u> – 1 CONCRETE WASH PIT – 9,370 LF OF SILT FENCE – 29.69 ACRES OF SEEDING, FERTILIZING AND MULCHING. – 16 INLET PROTECTION DEVICES – 76 LF FILTER SOCK – 1– 12 IN. HDPE OR CMP TEMPORARY STANDPIPE – 1– 18 IN. HDPE OR CMP TEMPORARY STANDPIPE – 360 LF CHECK DAMS																																																																														
53	INSTALL ENGINEERING FABRIC UNDER ALL RIP RAP. ENGINEERING FABRIC SHALL BE CONSIDERED INCIDENTAL.																																																																														
54	DEMOLITION OF HOMESTEAD INCLUDING HOME REMOVAL, ACCESSORY BUILDING REMOVAL, FOUNDATION REMOVAL, WELL ABANDONMENT, SEPTIC SYSTEM REMOVAL, ETC. INCLUDED IN THIS BID ITEM. ASBESTOS TESTING AND POSSIBLE REMOVAL WILL BE PERFORMED BY OTHERS. THE WATER SERVICES TO THE RESIDENCES OF 945 MAPLE STREET AND 950 LAUREL STREET WILL NEED TO BE TRANSFERRED TO THE WATER MAIN ON MAPLE STREET AND LAUREL STREET, RESPECTIVELY, PRIOR TO THE ABANDONMENT OF 6" MAIN BETWEEN MAPLE STREET AND LAUREL STREET.																																																																														
55	FULL DEPTH SAW CUT REQUIRED FOR PAVEMENT REMOVALS. ALL REMOVALS SHALL BECOME PROPERTY OF THE CONTRACTOR.																																																																														

GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND TO THE 2017 EDITION OF SUDAS STANDARD SPECIFICATIONS. THE WAUKEE STANDARD SPECIFICATIONS SHALL GOVERN IF ANY DISCREPANCIES.
- WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE–CALL SERVICE AT 800–292–8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT OR SIDEWALK NOT TO BE REMOVED THAT IS DAMAGED DUE TO OPERATING HIS EQUIPMENT ON THE PAVEMENT OR SIDEWALK. PAVEMENT REPLACEMENT SHALL COMPLY WITH THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BETWEEN ALL SUPPLIERS AND SUBCONTRACTORS INVOLVED IN THE PROJECT. INCLUDING STAGING OF CONSTRUCTION DETAILS.
- THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE PROPOSED AND EXISTING RIGHT OF WAY, CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY (48 HRS NOTICE) THE FOLLOWING:
A. CITY OF WAUKEE ENGINEERING DEPARTMENT
B. APPROPRIATE UTILITY COMPANIES
C. OWNER
D. CIVIL DESIGN ADVANTAGE
*48 HOUR NOTICE SHALL BE GIVEN TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO WEEKEND AND HOLIDAY WORK.
- PRIOR TO CONSTRUCTION, THE PROJECT MANAGER SHALL CONTACT THE WAUKEE ENGINEERING DEPARTMENT AND SCHEDULE A PRE–CONSTRUCTION MEETING AT LEAST ONE WEEK PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.
- SPECIAL CARE SHALL BE TAKEN WHEN FORMING AT INTERSECTIONS SO THE PROFILES SHOWN ON THE PLANS AND THE ELEVATIONS SHOWN ON THE INTERSECTION DETAILS ARE OBTAINED. SHORT LENGTHS OF FORMS OR FLEXIBLE FORMS MAY BE NECESSARY AT THESE LOCATIONS.
- TO OBTAIN THE CORRECT FORM GRADES AT LOW POINTS WHERE INTAKES ARE LOCATED, THE CONTRACTOR MUST EXERCISE ADDITIONAL CARE WHEN PAVING FULL WIDTH PAVEMENTS. THIS MAY REQUIRE POURING ONE HALF OF THE PAVEMENT AT A TIME OR OTHER METHODS APPROVED BY THE ENGINEER.
- THE CONTRACTOR MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR THE CITY, TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY. THIS WILL BE INCIDENTAL TO THE BID ITEM TRAFFIC CONTROL. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ROAD BARRICADES AT END OF EXISTING PAVEMENTS UNTIL THE PROJECT IS ACCEPTED.
- PLAN AND PROFILE SHEETS INCLUDED IN THE PROJECT ARE FOR THE PURPOSE OF ALIGNMENT, LOCATION AND SPECIFIC DIRECTIONS FOR WORK TO BE PERFORMED UNDER THIS CONTRACT. IRRELEVANT DATA ON THESE SHEETS IS NOT TO BE CONSIDERED A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY (48 HRS NOTICE) THE FOLLOWING:
A. CITY OF WAUKEE ENGINEERING DEPARTMENT
- THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH AND COMPLY WITH OSHA STANDARDS. NOTHING WITHIN THESE PLANS SHALL RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.
- ALL MATERIAL TESTING SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
- PRIOR TO ANY WORK AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER, ENGINEER, AND/OR ARCHITECT, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.

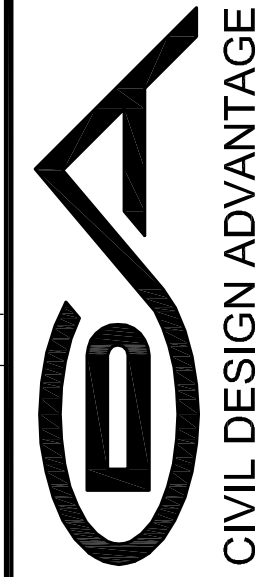
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)
- ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
- SIDEWALKS, ACCESSIBLE CURB RAMPS AND SIDEWALK RAMPS INCLUDING RAISED TRUNCATED DOME AND DETECTABLE WARNINGS AND WARNING PANELS SHALL BE DESIGNED AND INSTALLED TO THE LATEST P.R.O.W.A.G. AND A.D.A. REQUIREMENTS.
- PLACE 3/4" EXPANSION JOINT BETWEEN ALL P.C.C. PAVEMENT/SIDEWALKS AND BUILDINGS. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALKS AND P.C.C PAVEMENT. THE PCC RAMP JOINT LOCATED AT THE BACK OF CURB AND ALL EXPANSION JOINTS SHALL BE SEALED.
- REMOVE DEBRIS SPILLED INTO R.O.W. AT THE END OF EACH WORK DAY AND BEFORE RAIN EVENTS.
- DO NOT STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN THE R.O.W.
- ALL PROPERTY PINS SHALL BE PROTECTED FROM GRADING OR OTHER OPERATIONS. ANY PINS DISTURBED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT OF A DISCREPANCY BETWEEN DETAILED PLANS AND QUANTITIES, THE DETAILED PLANS SHALL GOVERN.
- ALL FIELD TILES ENCOUNTERED SHALL BE REPAIRED AND CONNECTED TO STORM SEWERS WHERE POSSIBLE. LOCATIONS SHALL BE PROVIDED TO THE ENGINEER FOR NOTATION ON AS–BUILTS.
- ALL CONSTRUCTION STAKING TO BE COMPLETED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR. ALL CURB DROPS AND SIDEWALK/SHARED USE PATH SHALL ALSO BE STAKED UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR
- THE CONTRACTOR SHALL SUBMIT A LIST OF CONSTRUCTION MATERIALS TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
- A GEOTECHNICAL ENGINEER SHALL BE ONSITE DURING CONSTRUCTION AND FOR PROOF ROLLING TO INSPECT SOILS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE GEOTECHNICAL ENGINEER IS PRESENT. A COPY OF ALL REPORTS AND FINDING REQUIRING ALTERATION FROM THE APPROVED PLAN SET IS TO BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT FOR REVIEW AND DISCUSSION PRIOR TO COMMENCING WITH PAVING WITHIN THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE ALL EXISTING PUBLIC UTILITY CONNECTIONS WITH THE CITY OF WAUKEE ENGINEERING DEPARTMENT.
- ALL TESTING SHALL BE COMPLETED ACCORDING TO THE CITY OF WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE WAUKEE ENGINEERING DEPARTMENT SHALL BE PRESENT TO WITNESS ALL TESTING.
- AS–BUILTS SHALL BE PROVIDED TO THE WAUKEE ENGINEERING DEPARTMENT INCLUDING ALL UTILITIES AND AS–BUILT GRADES FOR DRAINAGE SWALES, OVERFLOWS, ACCESSIBLE RAMPS AND DETENTION FACILITIES. THE CONTRACTOR SHALL PROVIDE INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION ON THE RECORD AS–BUILT DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND TELESVING ALL STORM AND SANITARY SEWERS. THE CITY OF WAUKEE ENGINEERING DEPARTMENT SHALL WITNESS AND APPROVE ALL CLEANING AND TELESVING PRIOR TO PAVING. A COPY OF THE VIDEOS AND A HARD COPY OF THE INSPECTION REPORT SHALL BE PROVIDED TO THE CITY OF WAUKEE ENGINEERING DEPARTMENT. ALL SANITARY SEWER MANHOLES ARE TO BE VACUUM TESTED.
- ALL FIRE HYDRANTS INCLUDING ANY RELOCATED HYDRANTS SHALL HAVE STORZ FITTINGS.
- ALL PROPOSED PEDESTRIAN CROSSINGS SHALL BE INSTALLED AS PART OF THE PLAT IMPROVEMENTS.
- ALL CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE DRILLED AND USE A LINK SEAL.
- ANY FIELD FENCE LOCATED WITHIN THE PROPERTY IS TO BE REMOVED. ANY TREES OR BRUSH ALONG THE NORTH PROPERTY BOUNDARY IS ALSO TO BE REMOVED.
- VERIFY THAT ALL EXISTING MANHOLES WITHIN THE PLAT BOUNDARY HAVE A MINIMUM OF ONE 4–INCH ADJUSTING RING TO ALLOW FOR FUTURE ADJUSTMENT.
- CONSTRUCTION OPERATIONS SHALL PROTECT STORM SEWERS AND DRAINAGE WAYS FROM ALLOWING SLURRY FROM CONCRETE OPERATIONS TO DISCHARGE OFFSITE.

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DATE: 12/7/2016 11:00 AM
COMMENTS: ENG



**DEERY BROTHERS
WAUKEE DEVELOPMENT
HYDRANT COVERAGE PLAN**

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WAUKEE, IOWA

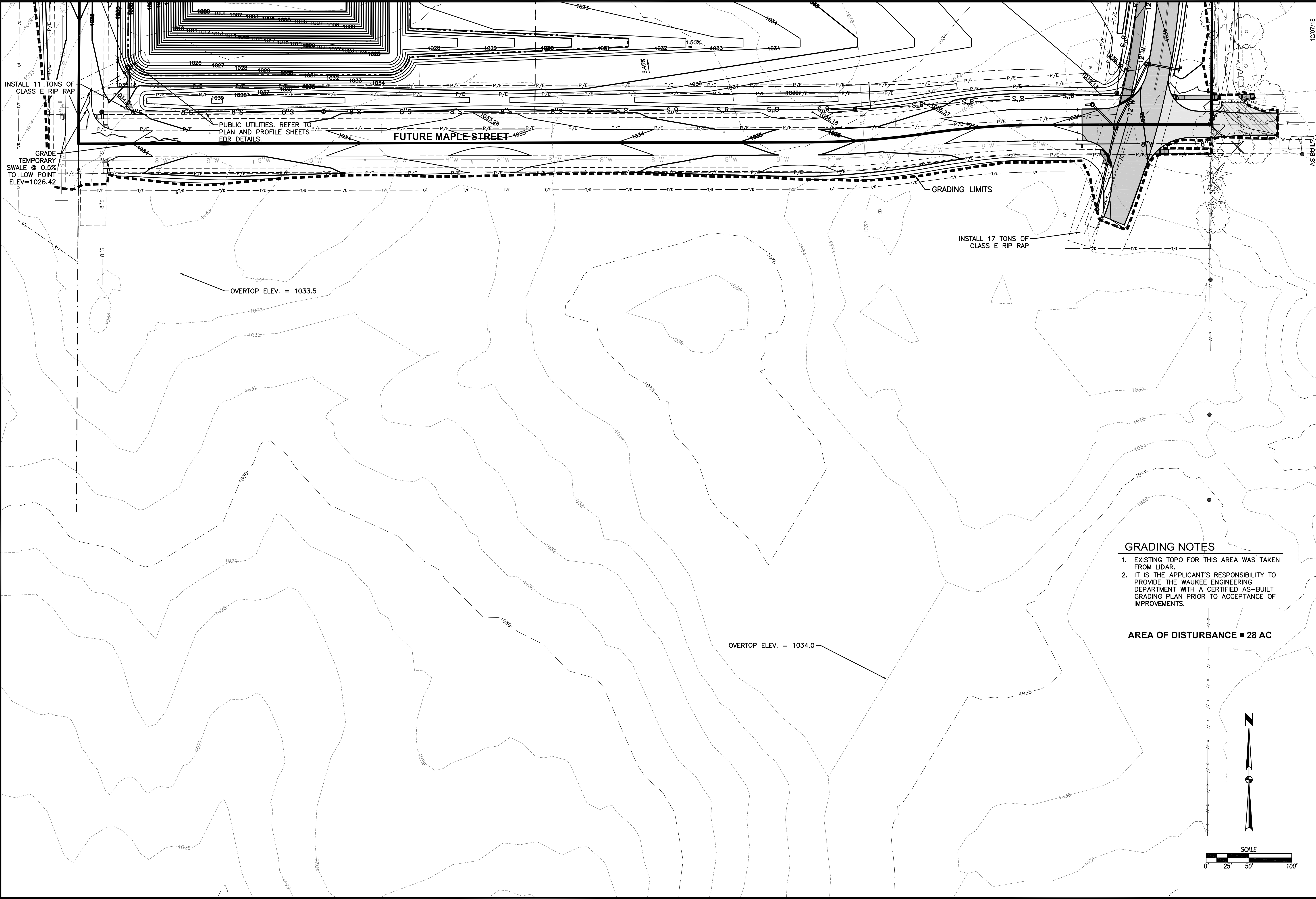
ENGINEER: ENH

TECH: MDM

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

AS-BUILT	REVISIONS	DATE
	REVISED	06/18/18
	FINAL SUBMITTAL	01/09/18
	SEVENTH SUBMITTAL	12/11/17
	SIXTH SUBMITTAL	11/22/17
	FIFTH SUBMITTAL	11/07/17
	FOURTH SUBMITTAL	10/9/17

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COMMENTS:
PLOTTER BY: DMK MILLER
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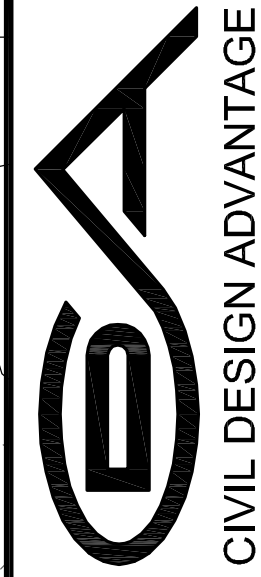
- GRADING NOTES**
1. EXISTING TOPO FOR THIS AREA WAS TAKEN FROM LIDAR.
 2. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE THE WAUKEE ENGINEERING DEPARTMENT WITH A CERTIFIED AS-BUILT GRADING PLAN PRIOR TO ACCEPTANCE OF IMPROVEMENTS.

**DEERY BROTHERS
WAUKEE DEVELOPMENT
GRADING PLAN**

REVISIONS	DATE
REVISED	06/18/18
FINAL SUBMITTAL	01/09/18
SEVENTH SUBMITTAL	12/11/17
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3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: ENH TECH: MDW



WAUKEE, IOWA

EROSION AND SEDIMENT CONTROL PLAN

NOT TO SCALE



DRAINAGE ARROW

GRADING LIMITS

FILTER SOCK

SILT FENCE

DITCH CHECK

INLET PROTECTION

PORTABLE RESTROOM

CONCRETE WASHOUT PIT

TEMPORARY STANDPIPE

X.XX %

R

AREA TO BE SEEDED

STRAW MAT

UNDISTURBED AREA

RIPRAP

GRAVEL ENTRANCE

STAGING AREA

TEMPORARY SEDIMENT BASIN

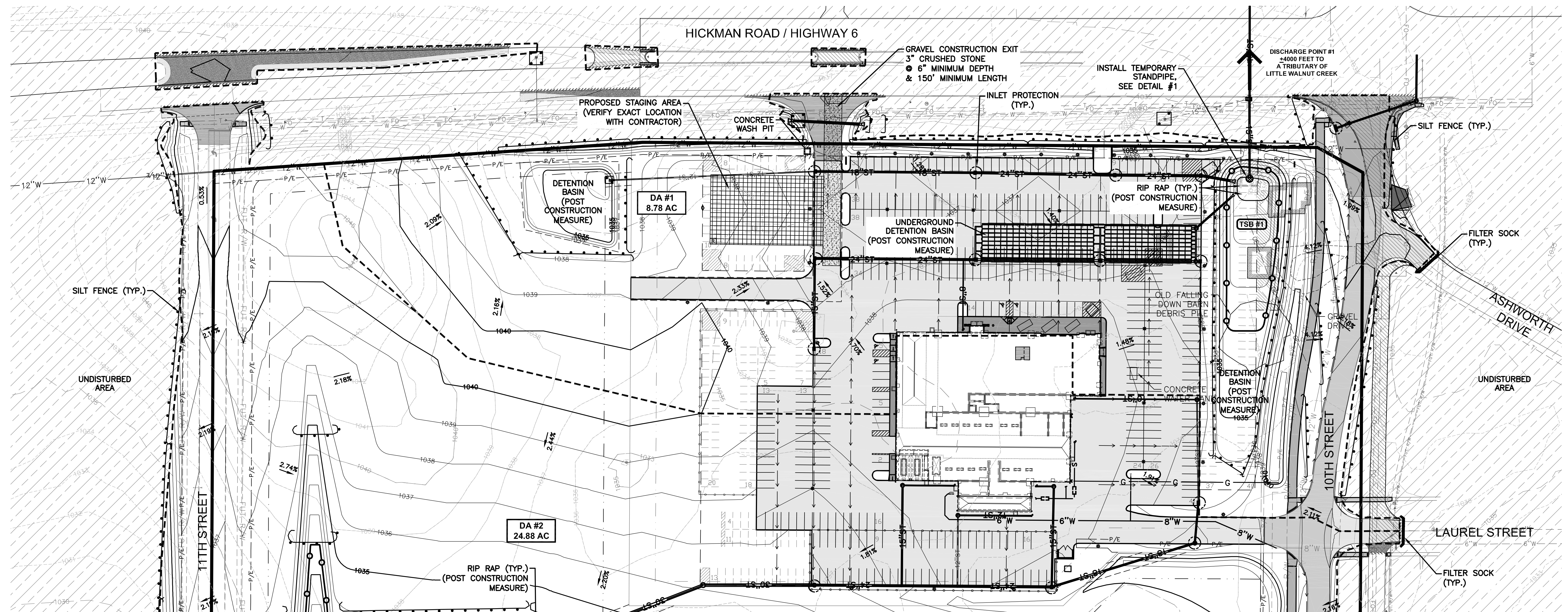
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[illegible]

TSB #

ITEM NO.

ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	9,37
2	SEEDING, FERTILIZING, AND MULCHING	AC	29.6
3	INLET PROTECTION DEVICES	EA	1
4	FILTER SOCK	LF	7
5	CONCRETE WASHOUT PIT	EA	
6	12" PVC TEMPORARY STANDPIPE	EA	
7	18" PVC TEMPORARY STANDPIPE	EA	
8	CHECK DAMS	LF	36



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12/07/18		
	DATE	
	06/18/18	
	01/09/18	
	12/11/17	
	11/22/17	
	11/07/17	
10/19/17		

AS-BUILT
REVISIONS
REVISED
FINAL SUB
SEVENTH
SIXTH SUB
FIFTH SUB
FOURTH S

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
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ENGINEER: ENH	TECH: MDM
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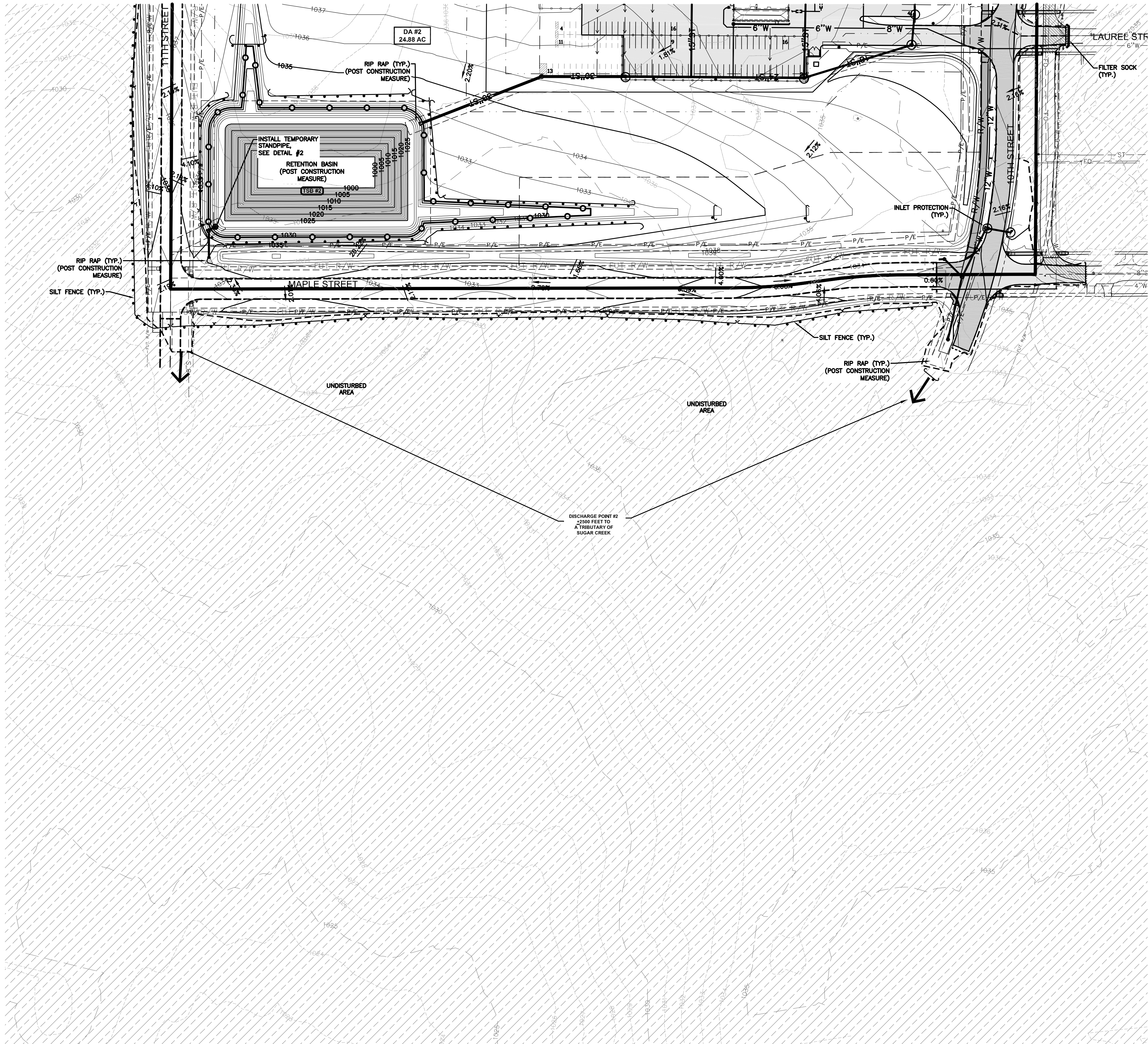
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WAUKEE, IOWA

**DEERY BROTHERS
WAUKEE DEVELOPMENT
EROSION AND SEDIMENT CONTROL PLAN**

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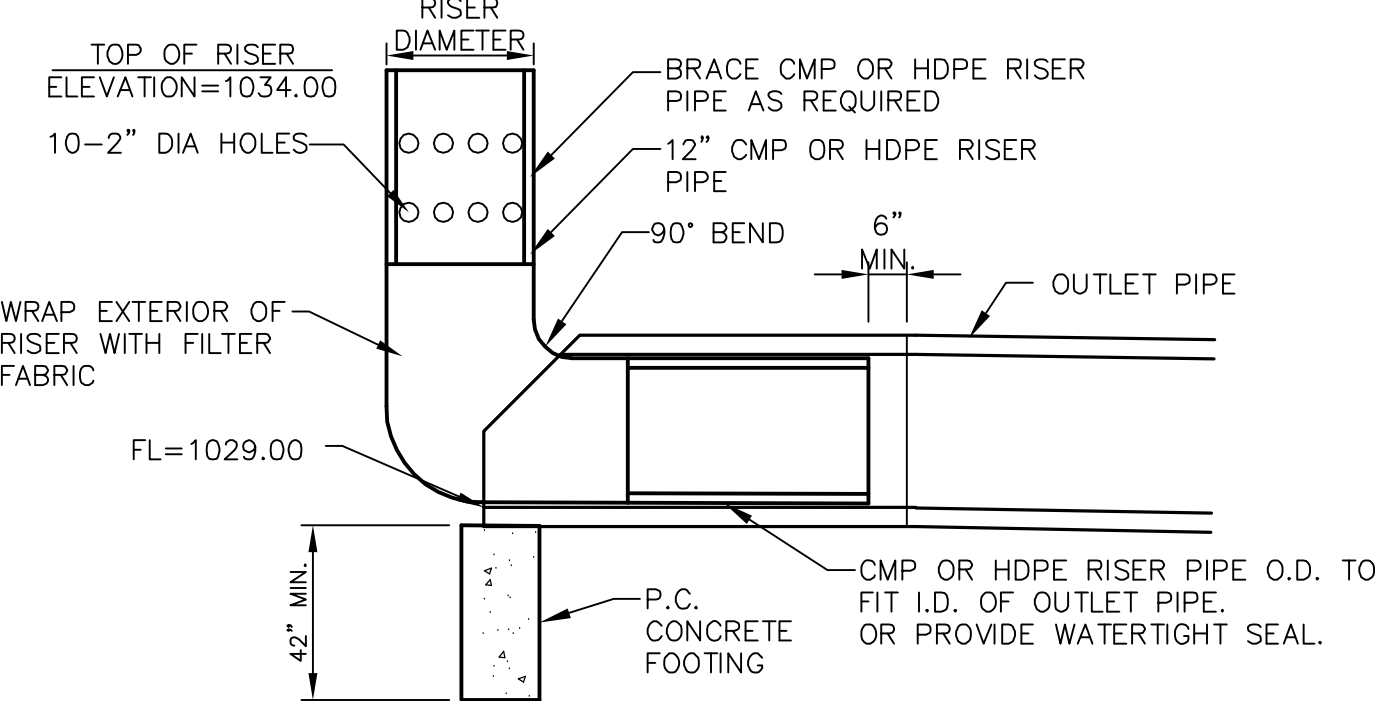


DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 TO AN UNNAMED TRIBUTARY OF LITTLE WALNUT CREEK ±4000 FT	
TOTAL AREA DISTURBED TO DISCHARGE POINT	8.78 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	31,608 CU FT
VOLUME PROVIDED IN SILT FENCE (3,140 LF @ 4.5 CU FT/LF OF FENCE)	14,130 CU FT
VOLUME PROVIDED IN FILTER SOCK (76 LF @ 2.0 CU FT/LF OF FILTER SOCK)	152 CU FT
VOLUME PROVIDED IN TEMPORARY SEDIMENT BASIN #1	26,930 CU FT
TOTAL VOLUME PROVIDED	41,212 CU FT
DISCHARGE POINT #2 TO AN UNNAMED TRIBUTARY OF SUGAR CREEK ±2500 FT	
TOTAL AREA DISTURBED TO DISCHARGE POINT	24.88 ACRES
STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)	89,568 CU FT
VOLUME PROVIDED IN SILT FENCE (6,230 LF @ 4.5 CU FT/LF OF FENCE)	28,035 CU FT
VOLUME PROVIDED IN CHECK DAM (350 LF @ 4.5 CU FT/LF)	1,575 CU FT
VOLUME PROVIDED IN TEMPORARY SEDIMENT BASIN #2	97,660 CU FT
TOTAL VOLUME PROVIDED	117,270 CU FT

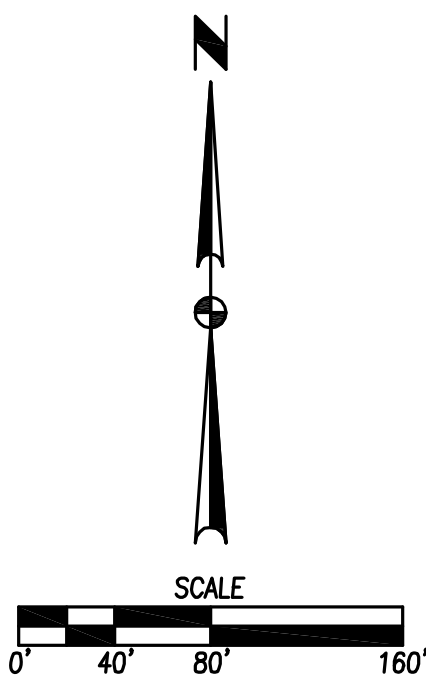
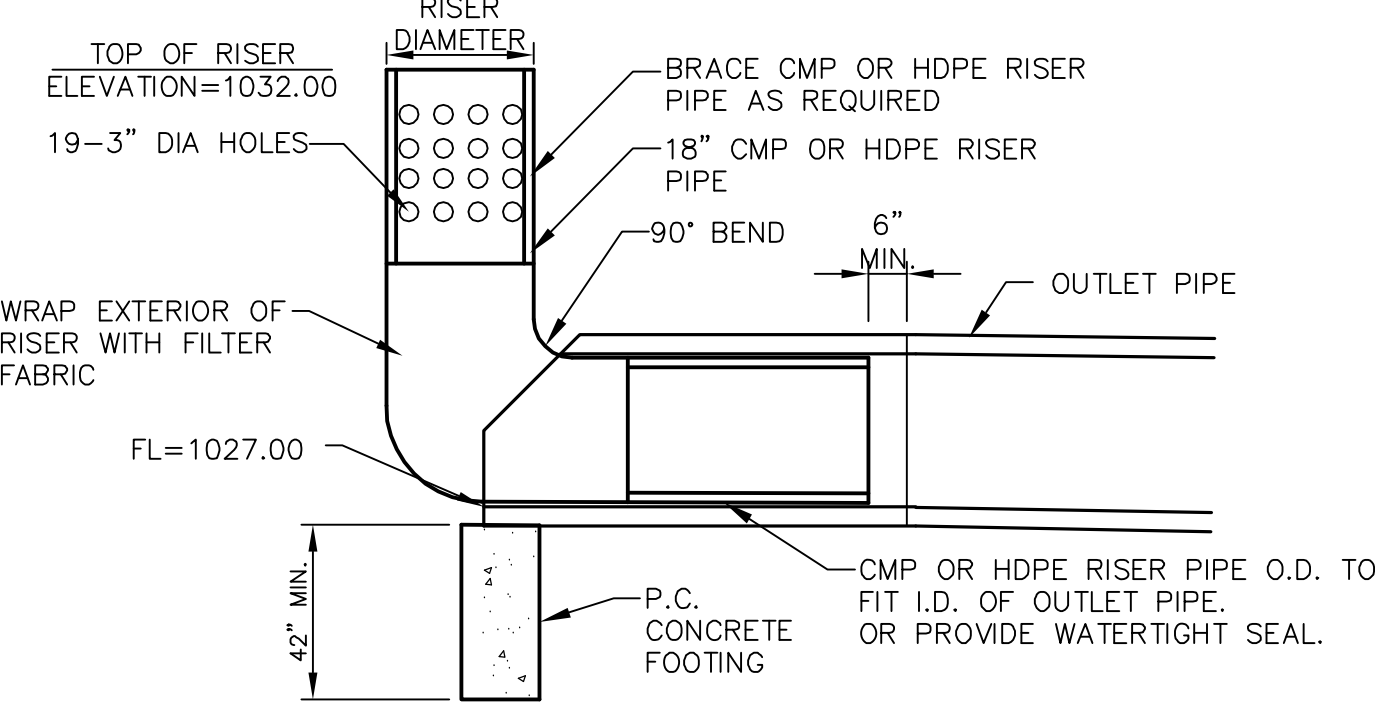
TEMPORARY STAND PIPE DETAIL #1

NOT TO SCALE

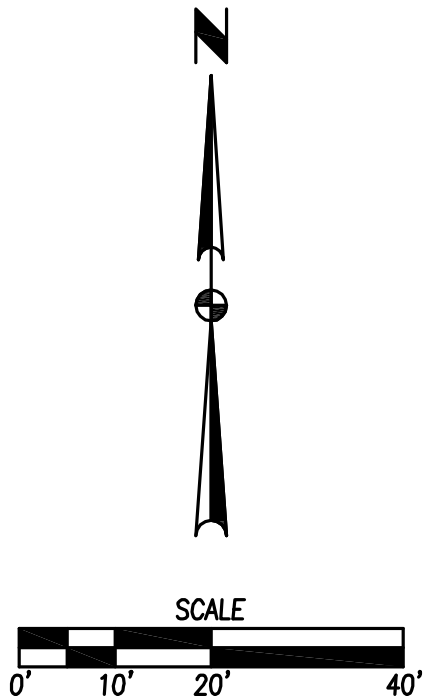
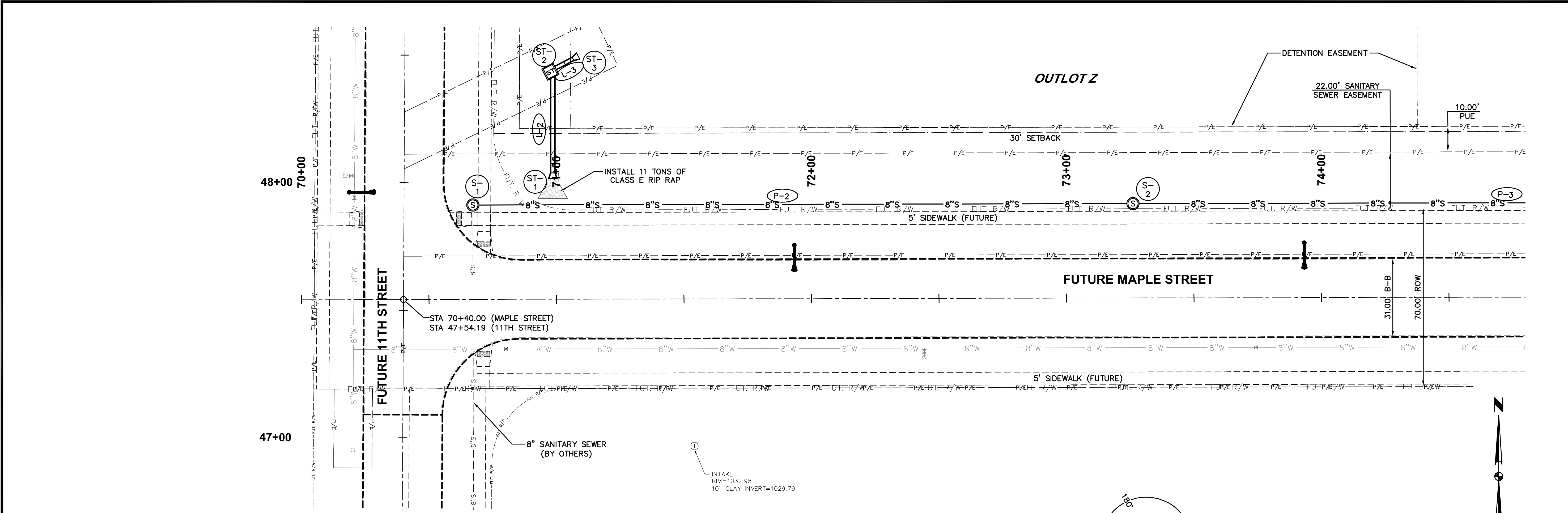
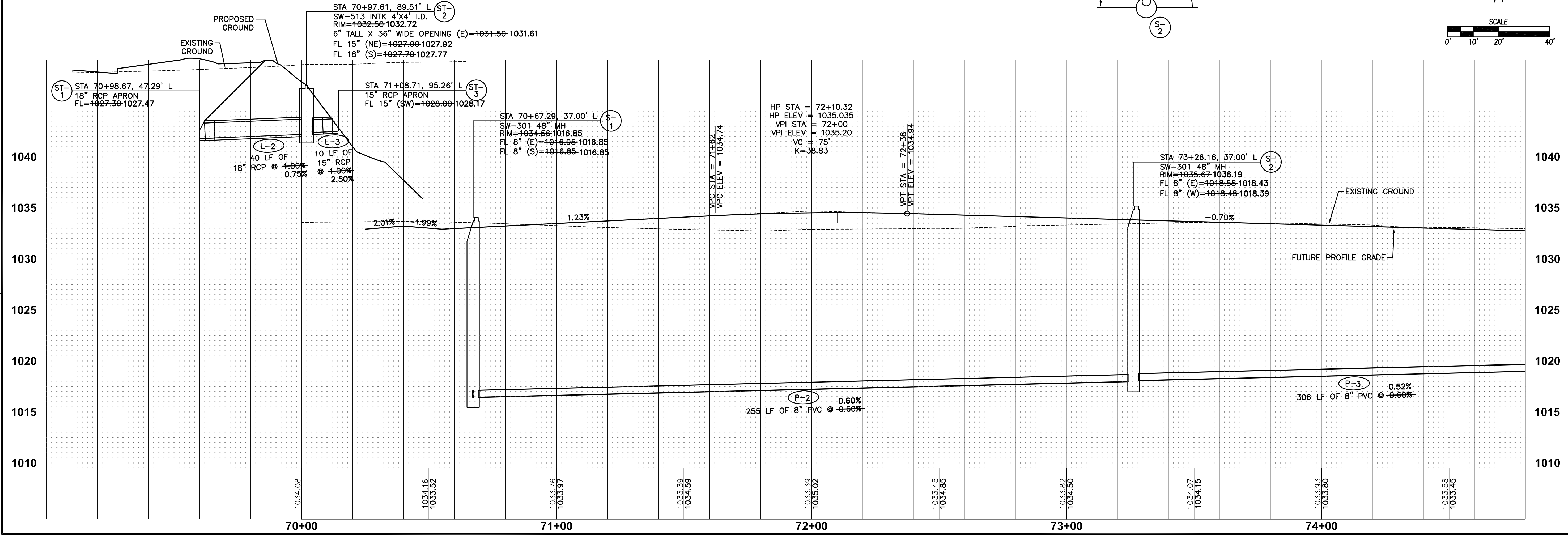


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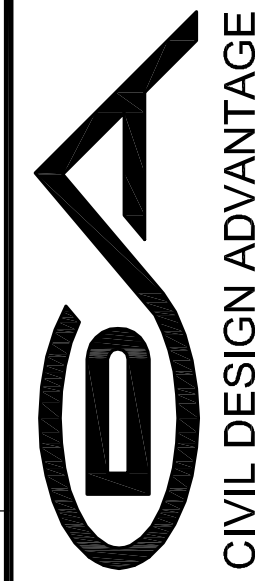
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DEERY BROTHERS
WAUKEE DEVELOPMENT
PLAN AND PROFILE



WAUKEE, IOWA

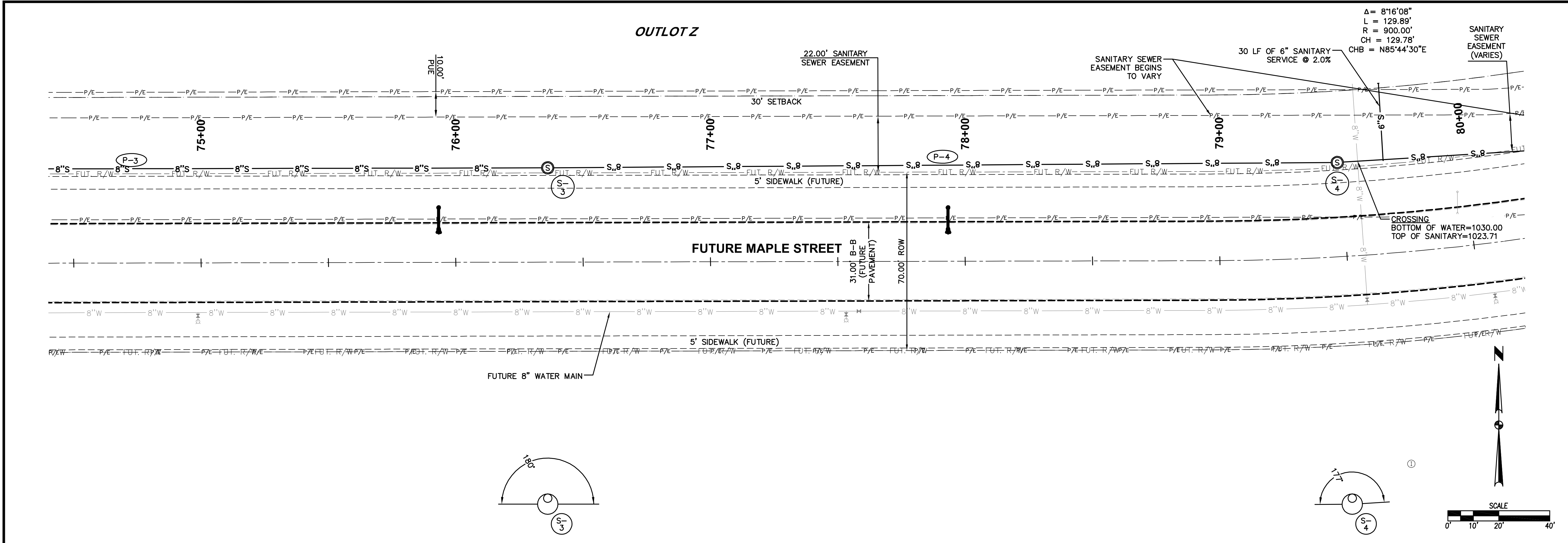
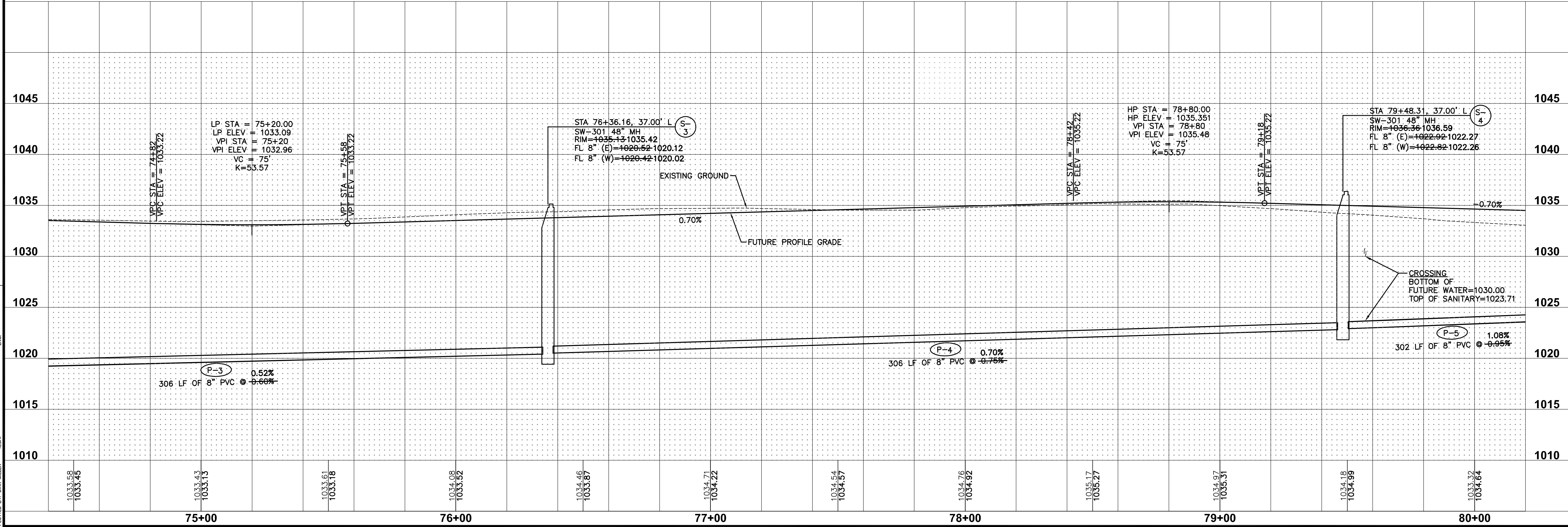
ENGINEER: ENH

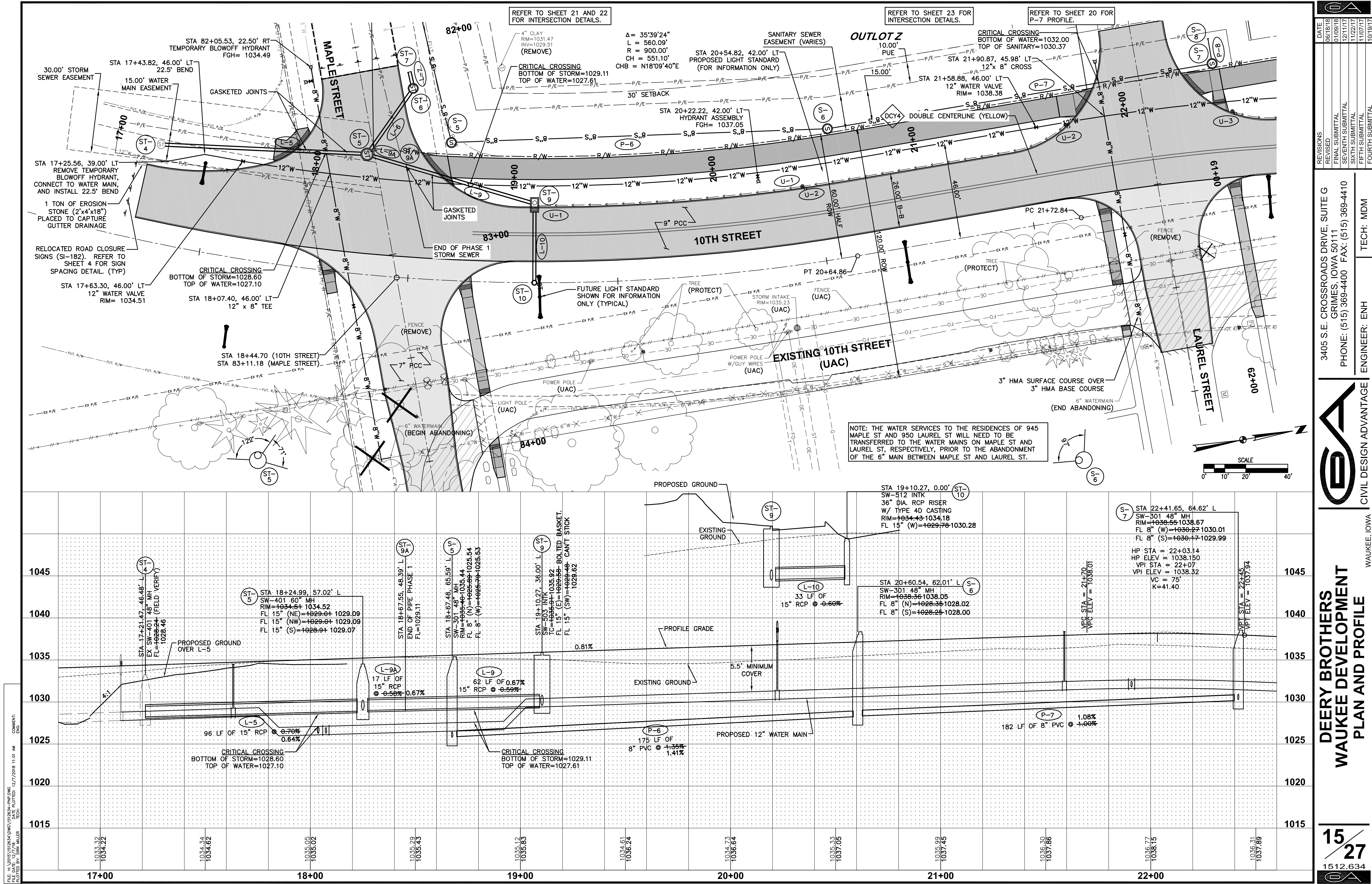
TECH: MDM

3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

REVISIONS	DATE
REVISED	06/18/18
FINAL SUBMITTAL	01/09/18
SEVENTH SUBMITTAL	12/11/17
SIXTH SUBMITTAL	11/22/17
FIFTH SUBMITTAL	11/07/17
FOURTH SUBMITTAL	10/9/17

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DATE PLOTTED: 12/7/2016 11:01 AM
COMPUTED BY: TONY MILLER
PLOTTED BY: TONY MILLER





DATE
06/18/18
REVISED
01/09/18
FINAL SUBMITTAL
12/11/17
SEVENTH SUBMITTAL
11/22/17
SIXTH SUBMITTAL
11/07/17
FOURTH SUBMITTAL
10/19/17

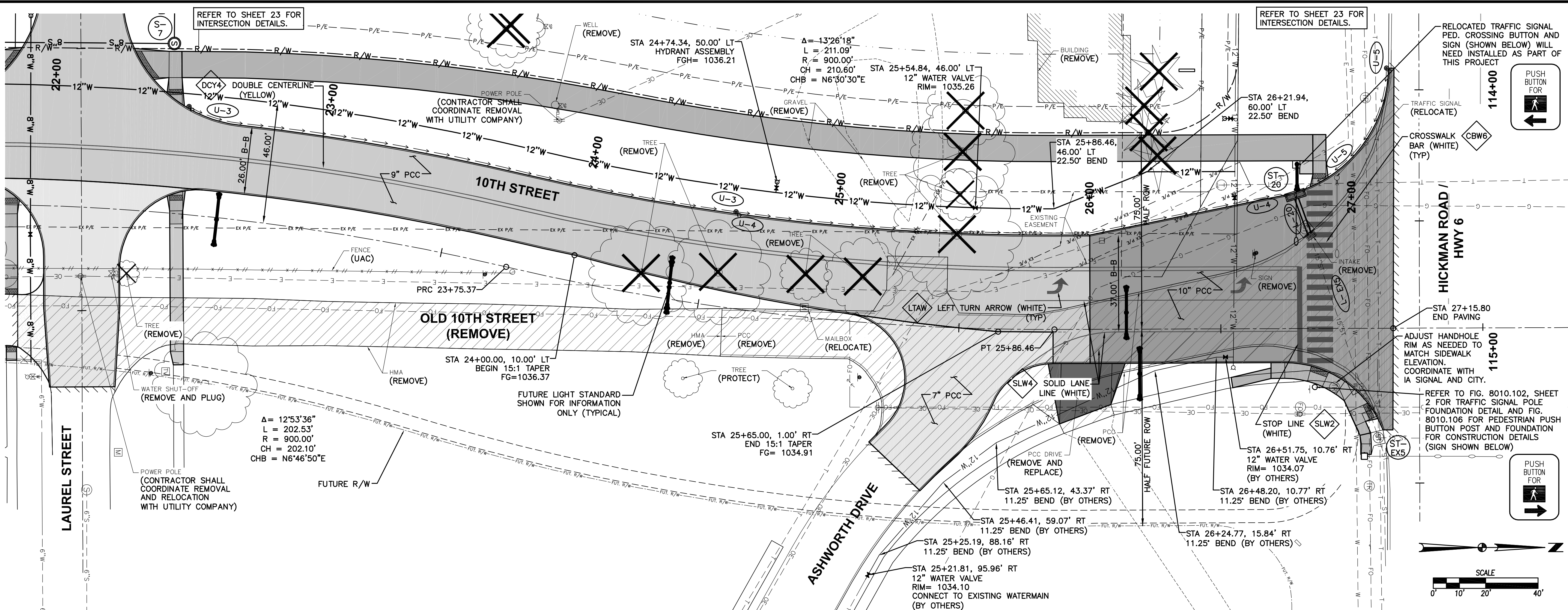
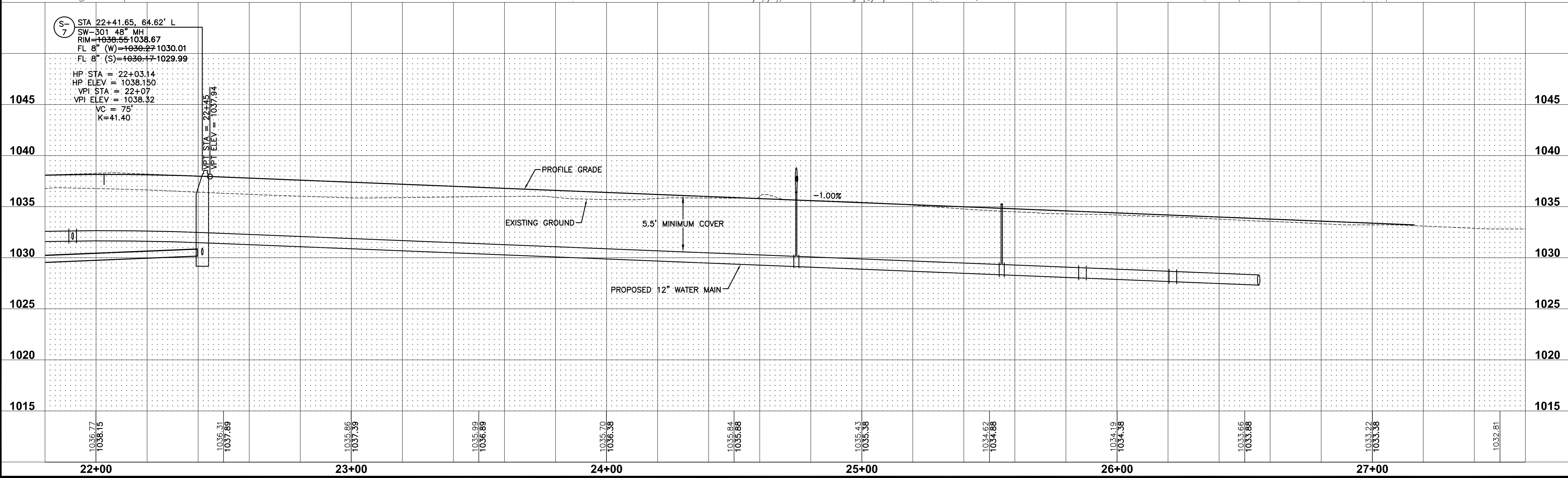
3405 S.E. CROSSROADS DRIVE, SUITE G
GRIMES, IOWA 50111
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: ENH
TECH: MDW

DEERY BROTHERS
WAUKEE DEVELOPMENT
PLAN AND PROFILE

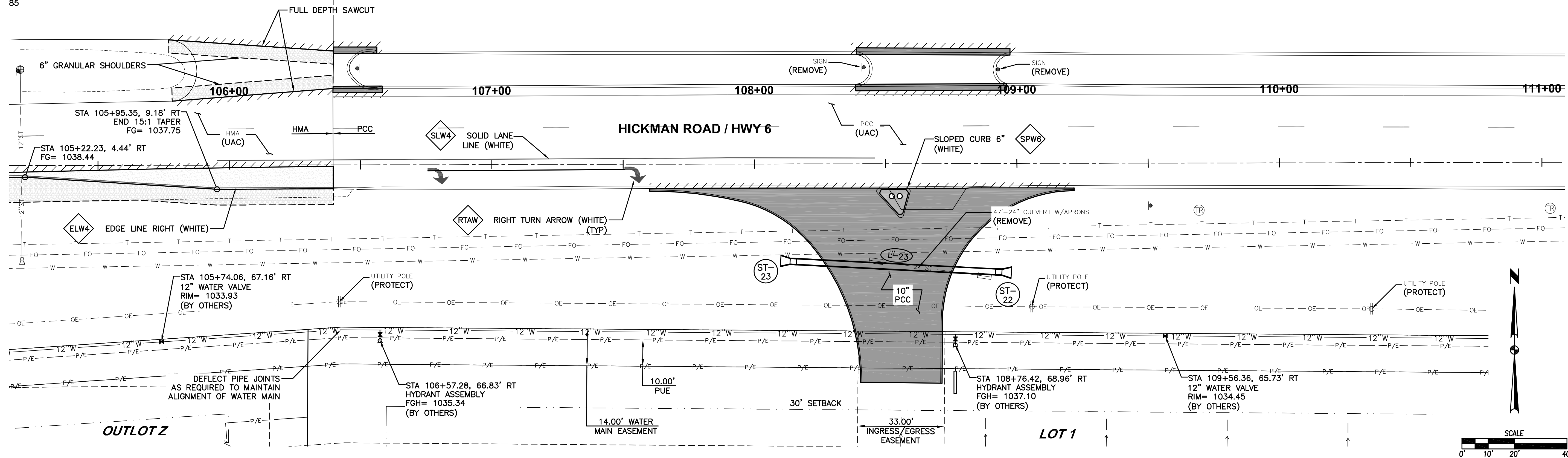
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PLOTTED BY: TMM
SCALE: 1"=40'

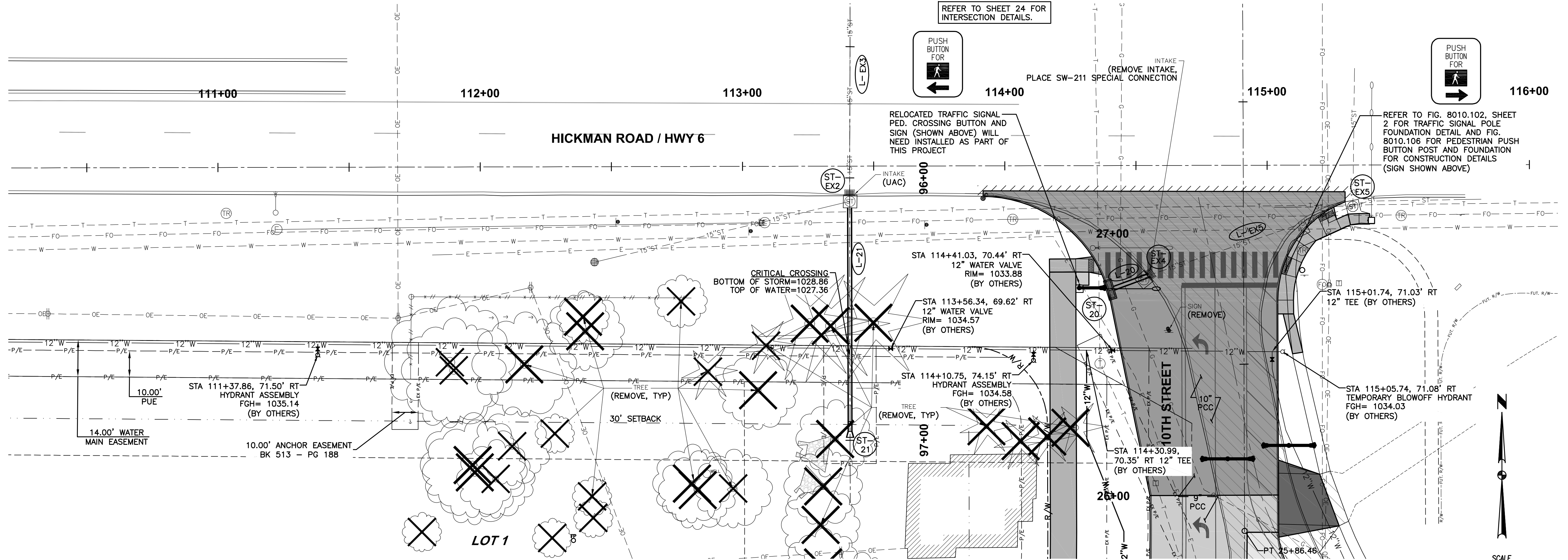
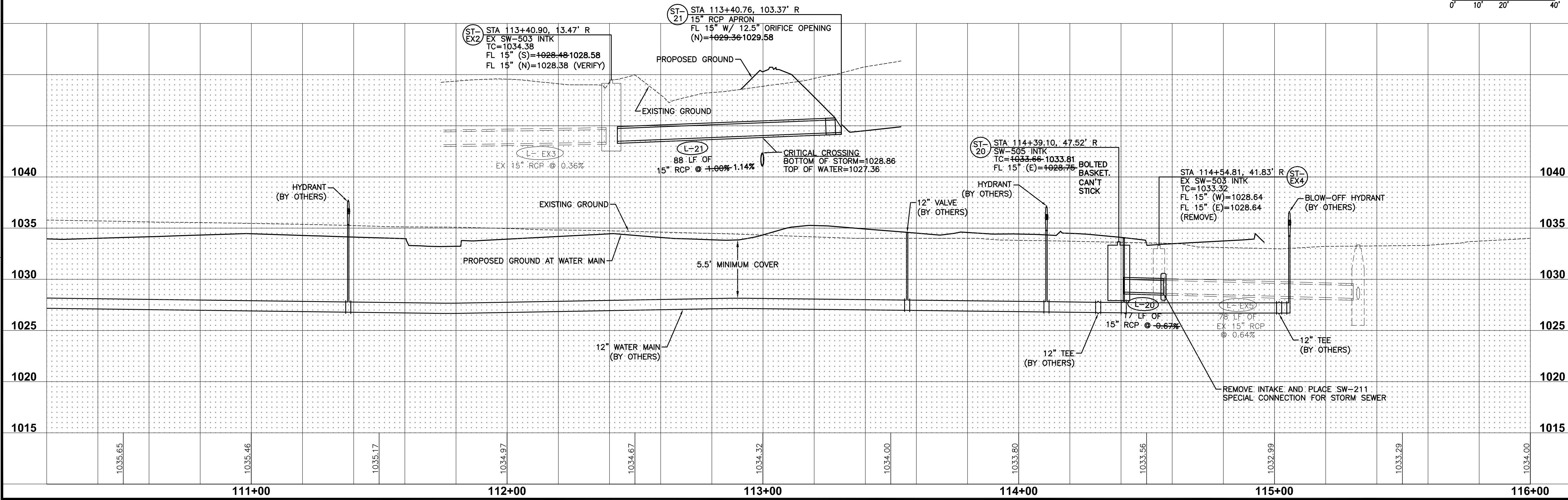


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PLOTTER: HP DesignJet 2400
DRAWN BY: D.M. MILLER
CHECKED BY: D.M. MILLER
COMMENTS:

18.25, 49.16' LT
85



FILE: H:\2015\1512634\DWG\1512634-IMP.DWG
DATE: 12/7/2016 11:01 AM
COMPUTED BY: ENR
PLOTTER: HP DesignJet 5000
PLOTTER: HP DesignJet 5000

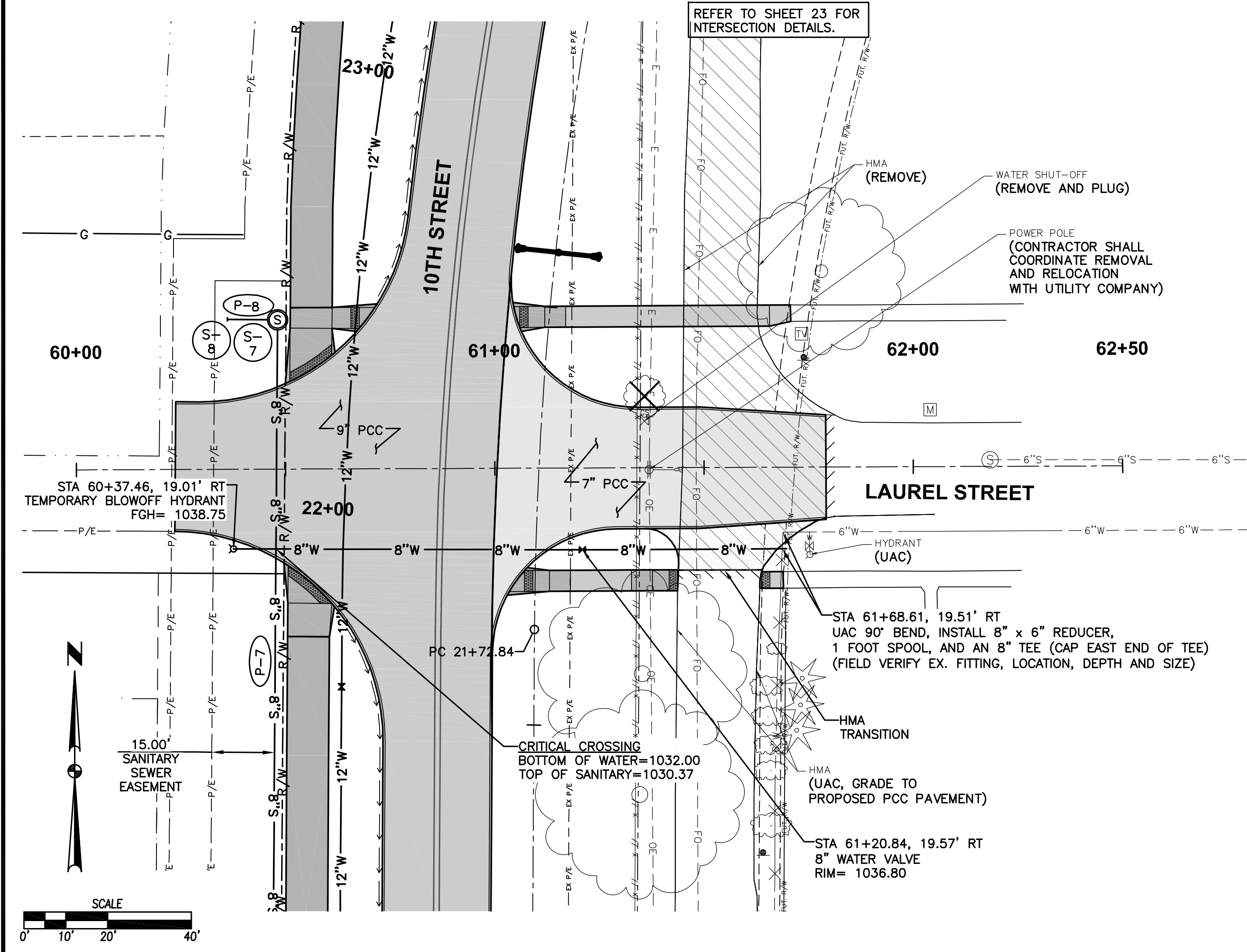
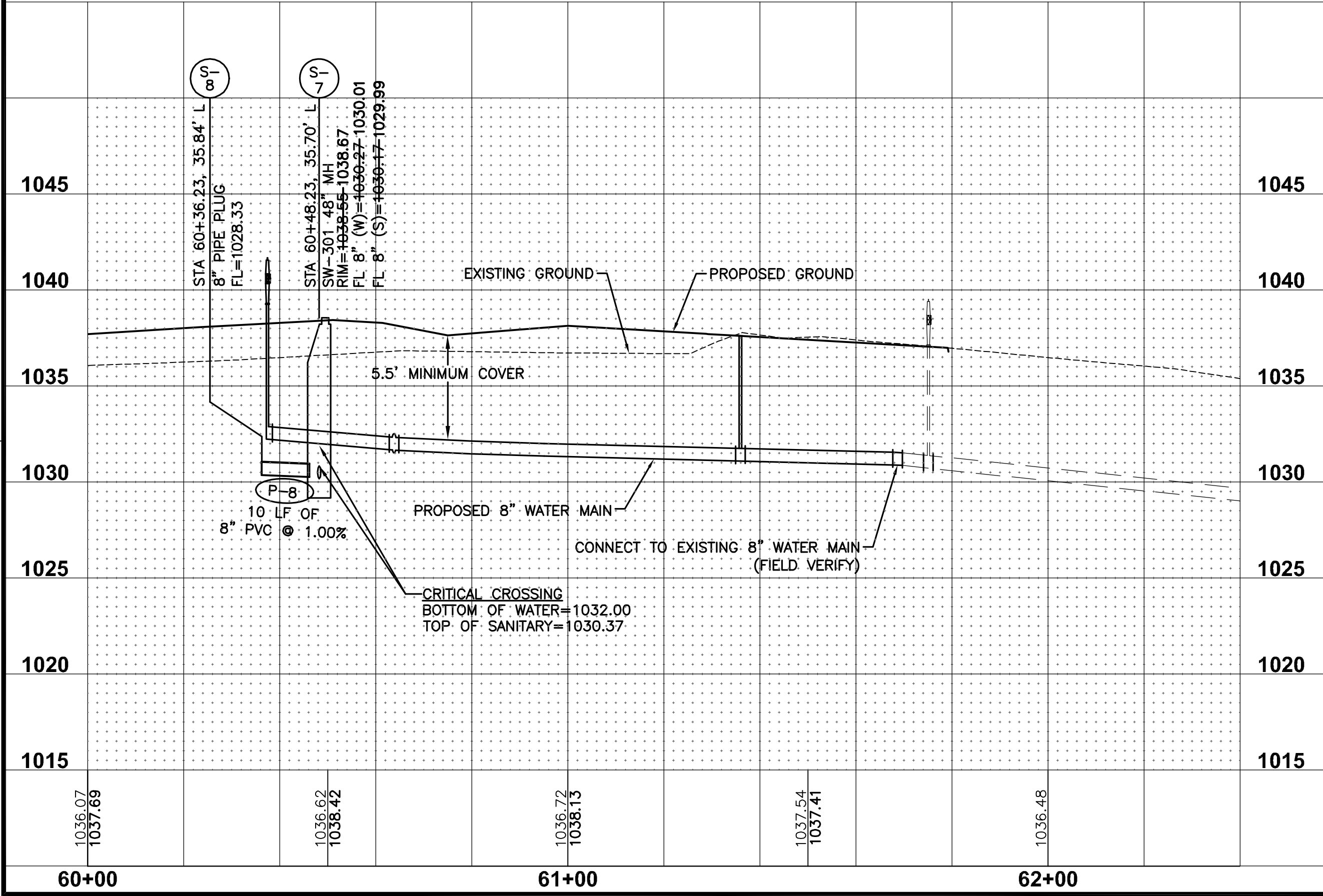


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DATE PLOTTED: 12/7/2016 11:01 AM
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PLOTTER: HP DesignJet T1200
PLOTTER: HP DesignJet T1200

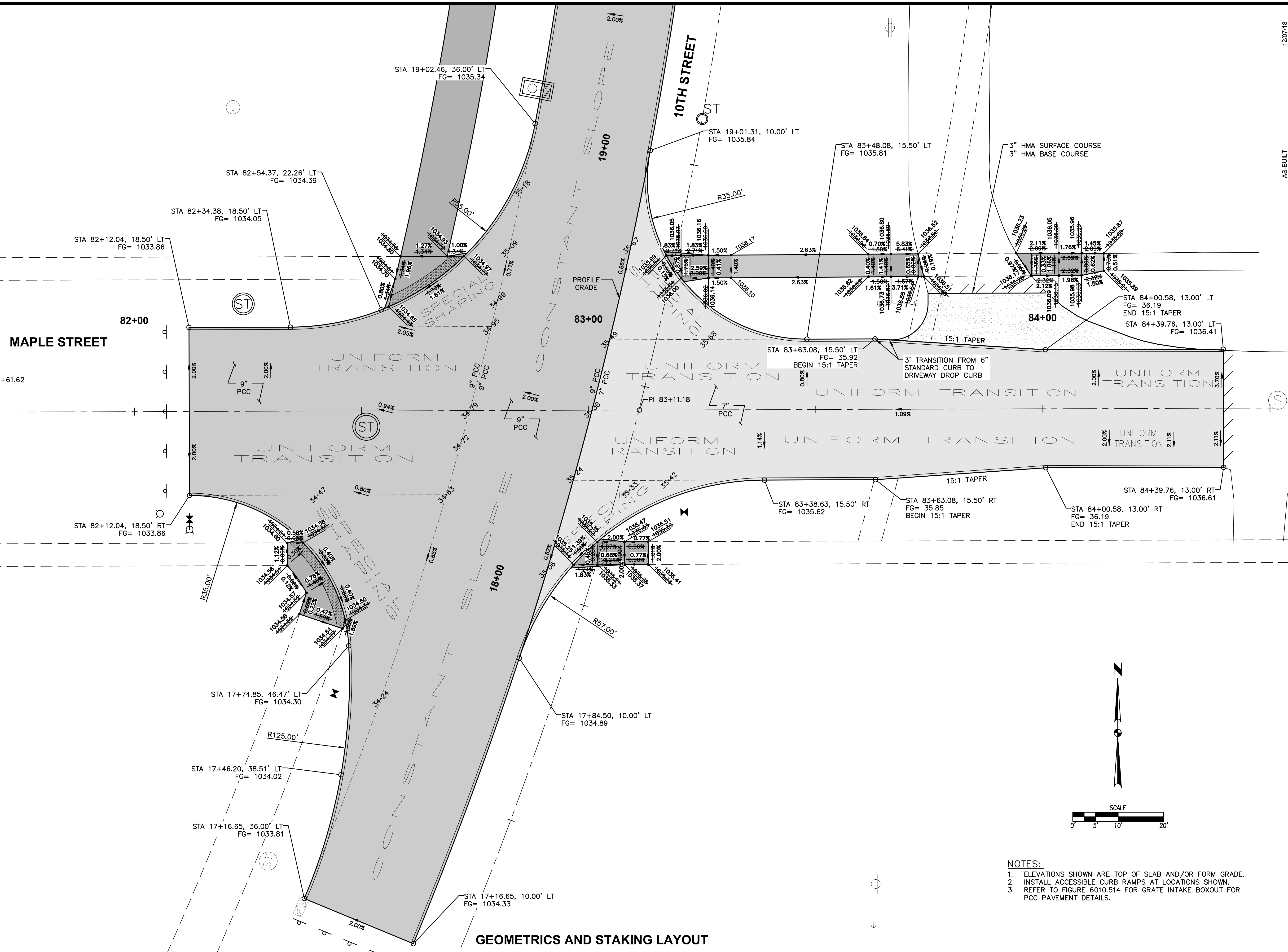
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ENDS

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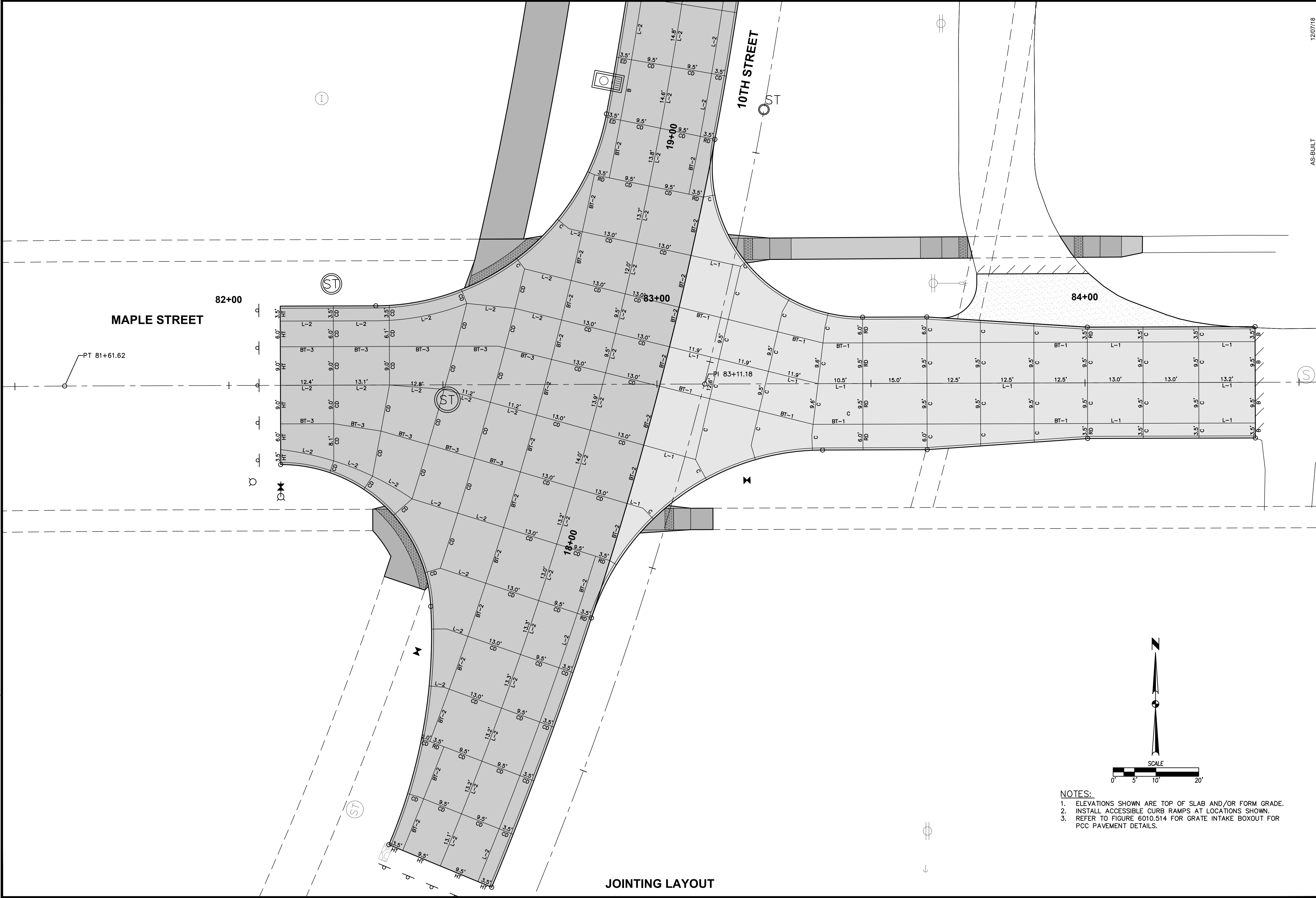


REVISIONS	DATE
REVISED	06/18/18
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FOURTH SUBMITTAL	10/19/17



NOTES:

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

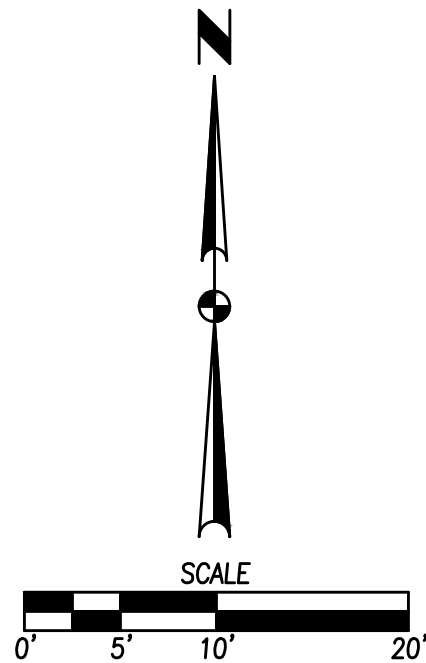
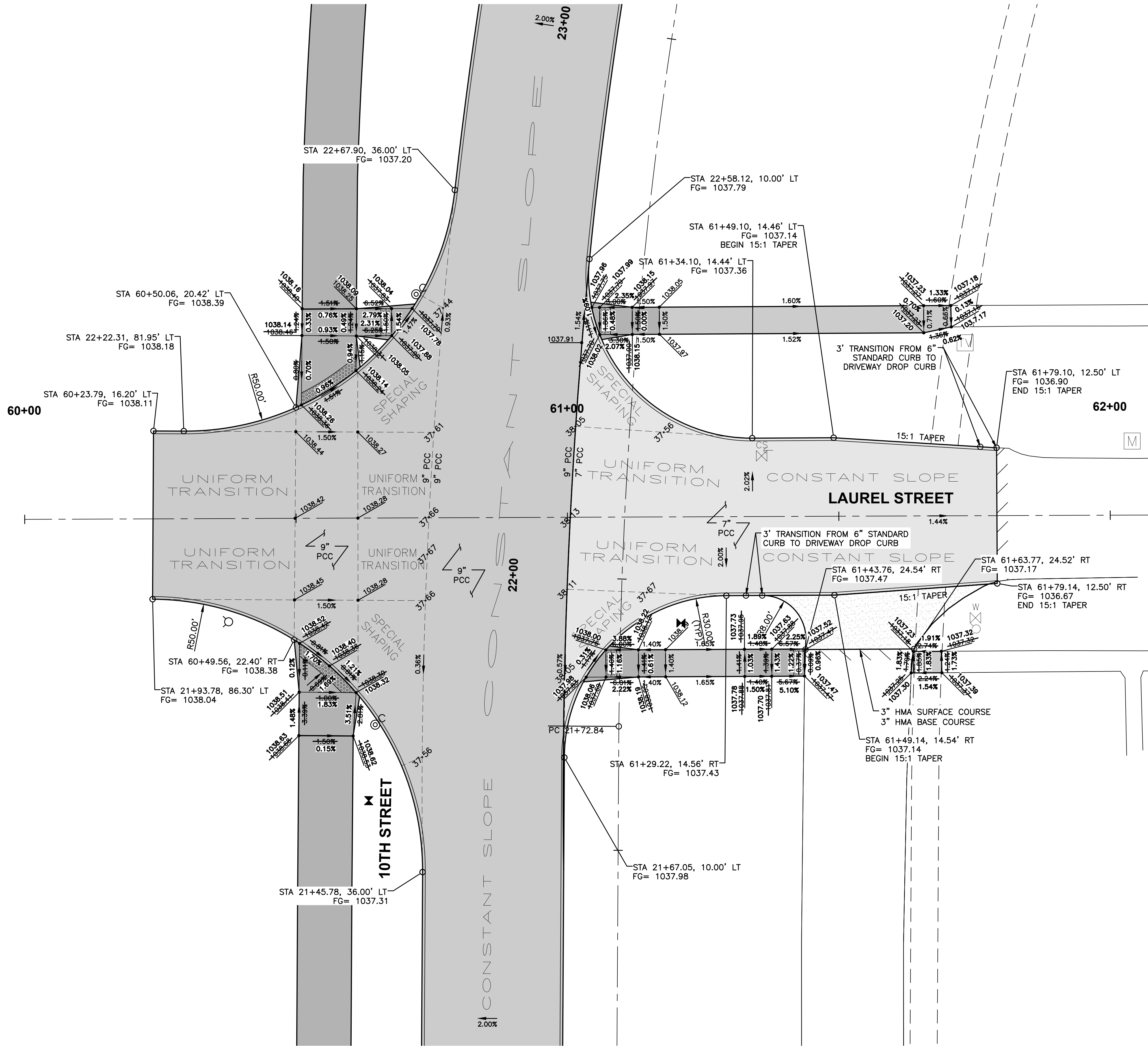


JOINTING LAYOUT

- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

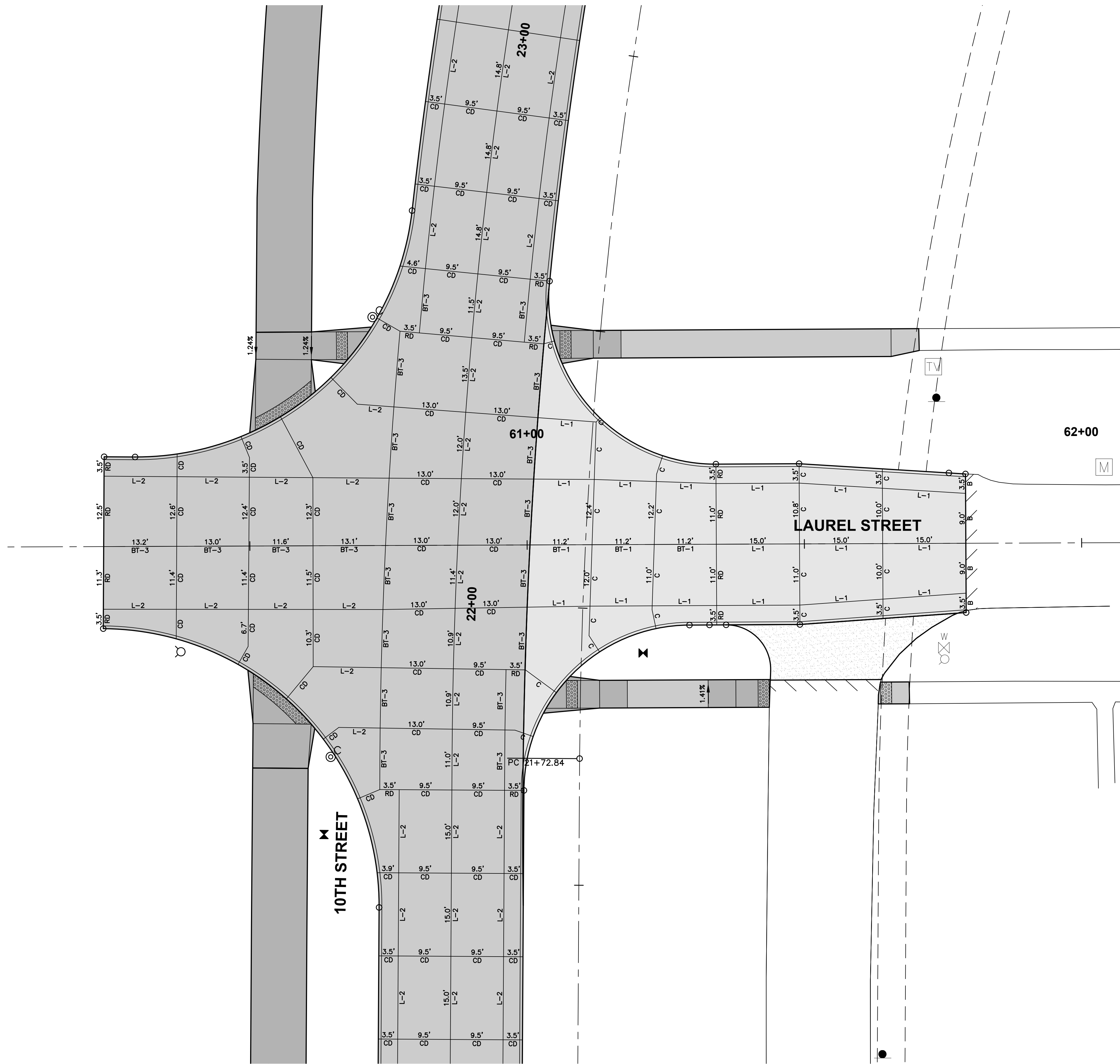
DEERY BROTHERS
WAUKEE DEVELOPMENT
INTERSECTION DETAILS

AS-BUILT	REVISIONS	DATE
	REVISED	06/18/18
	FINAL SUBMITTAL	01/09/18
	SEVENTH SUBMITTAL	12/11/17
	SIXTH SUBMITTAL	11/22/17
	FIFTH SUBMITTAL	11/07/17
	FOURTH SUBMITTAL	10/19/17



- NOTES:
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.

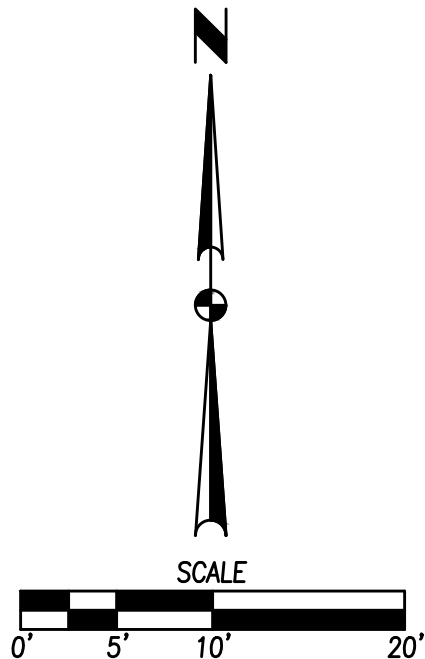
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 DATE PLOTTED: 8/19/2019 11:37 AM
 PLOTTED BY: EMILY HARDING
 COMMENT:
 ENG:

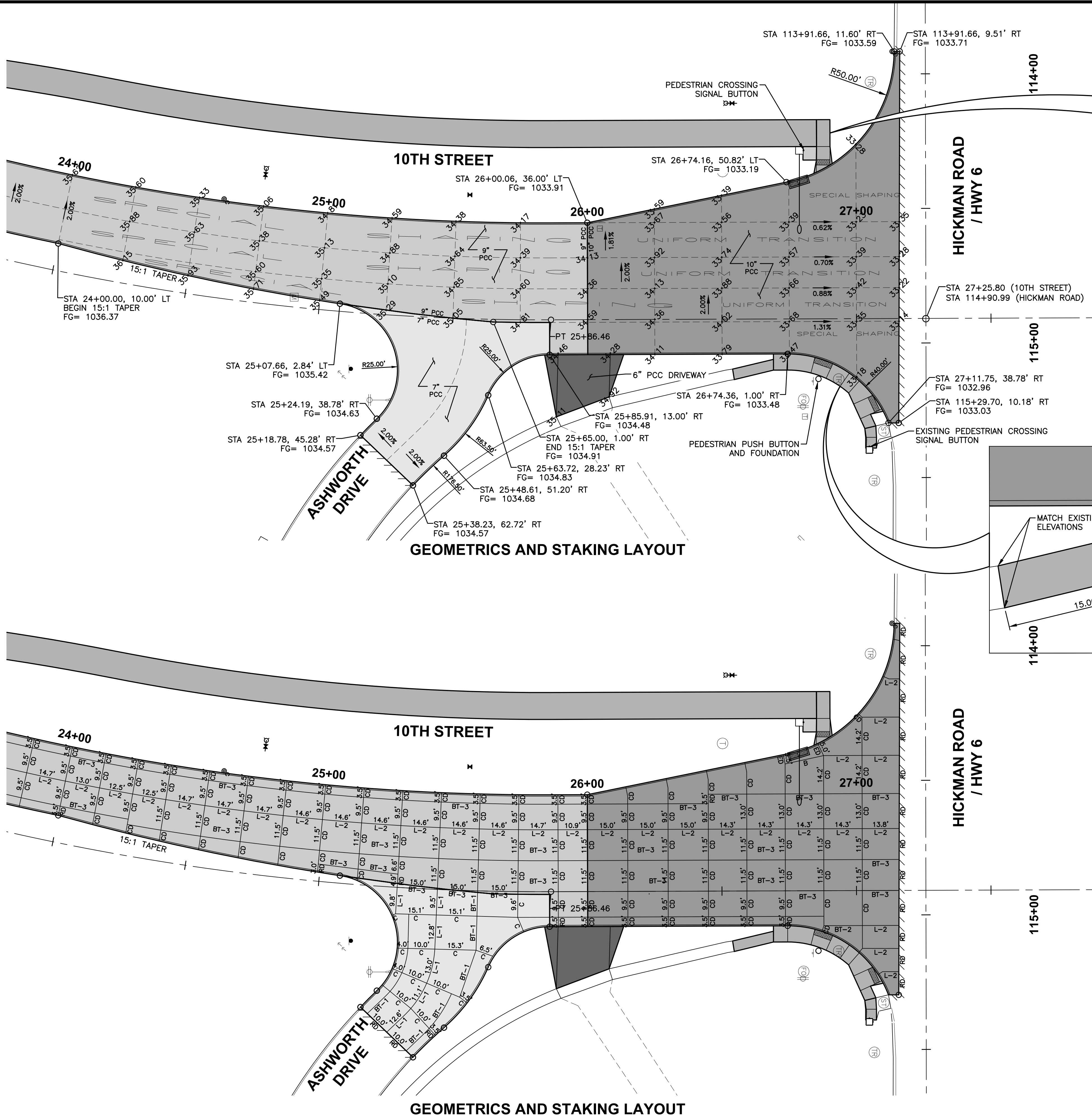


JOINTING LAYOUT

NOTES:

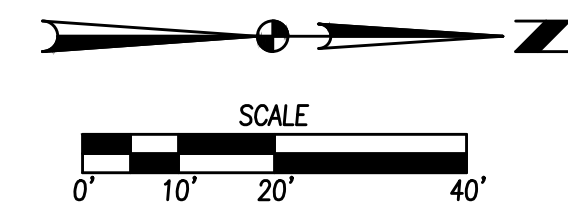
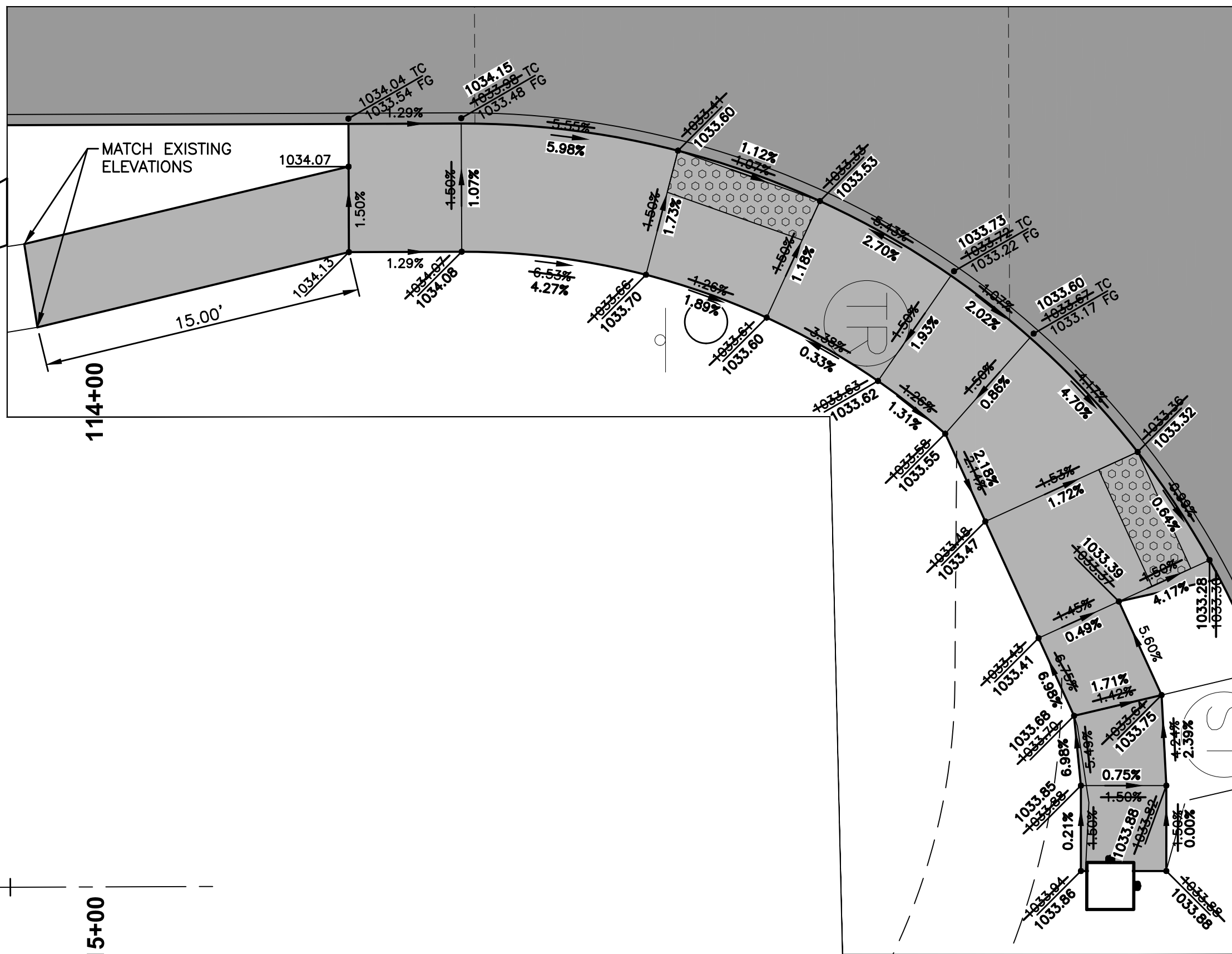
1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.



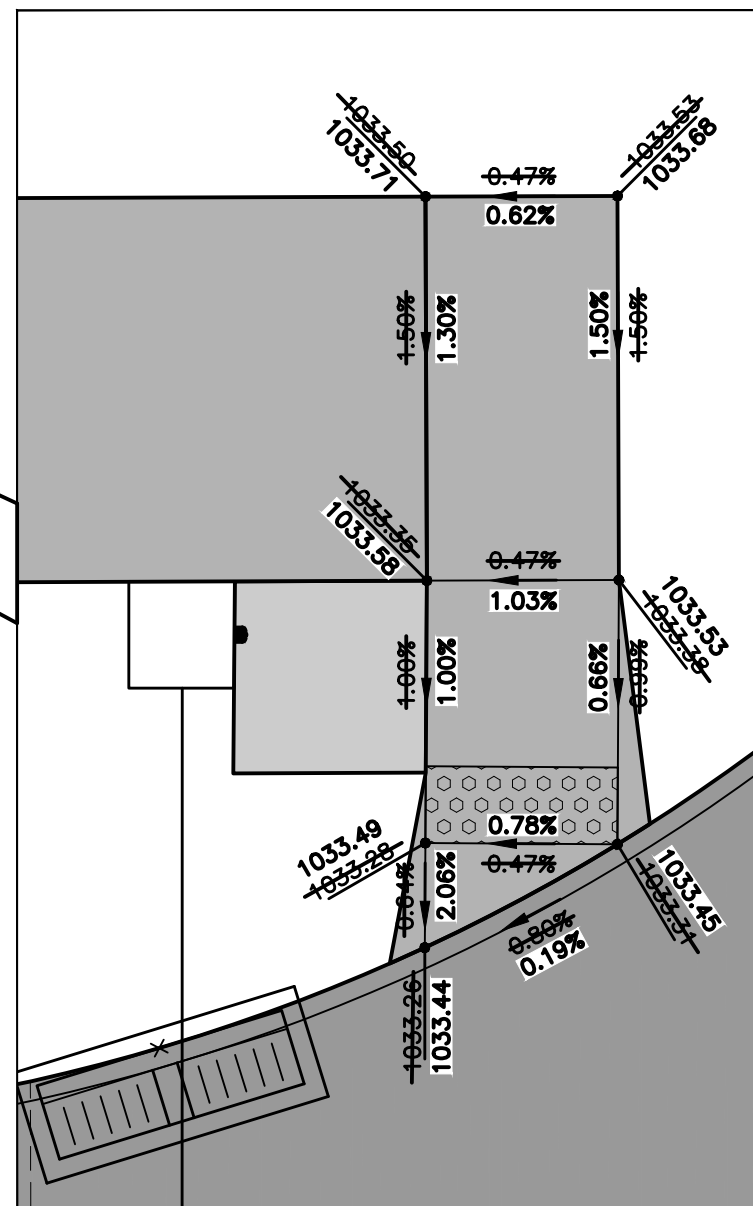


GEOMETRICS AND STAKING LAYOUT

GEOMETRICS AND STAKING LAYOUT



- NOTES:
- ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
 - INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
 - REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.



DEERY BROTHERS
WAUKEE DEVELOPMENT
INTERSECTION DETAILS

WAUKEE, IOWA

25
27

1512.634

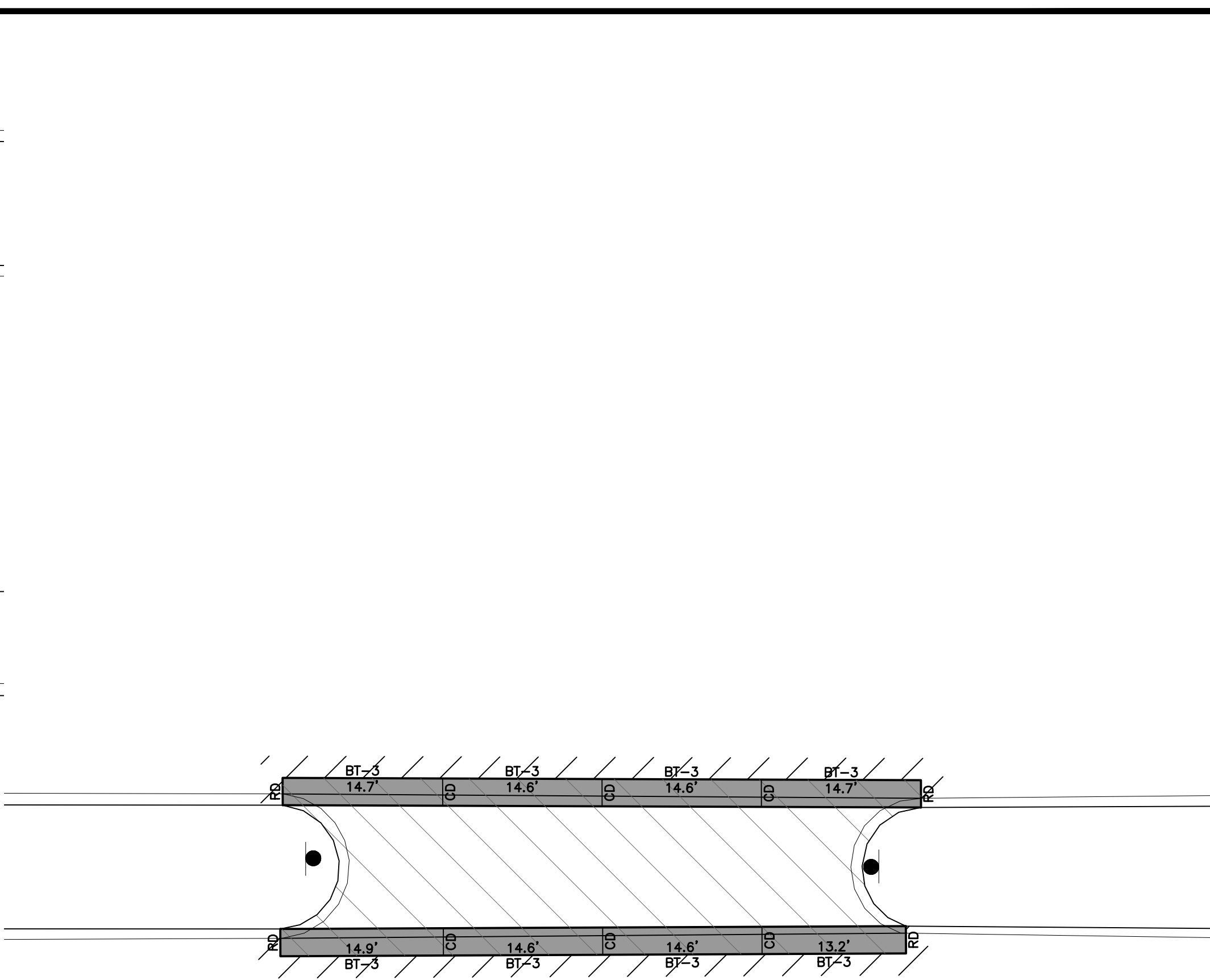
AS BUILT

12/07/18

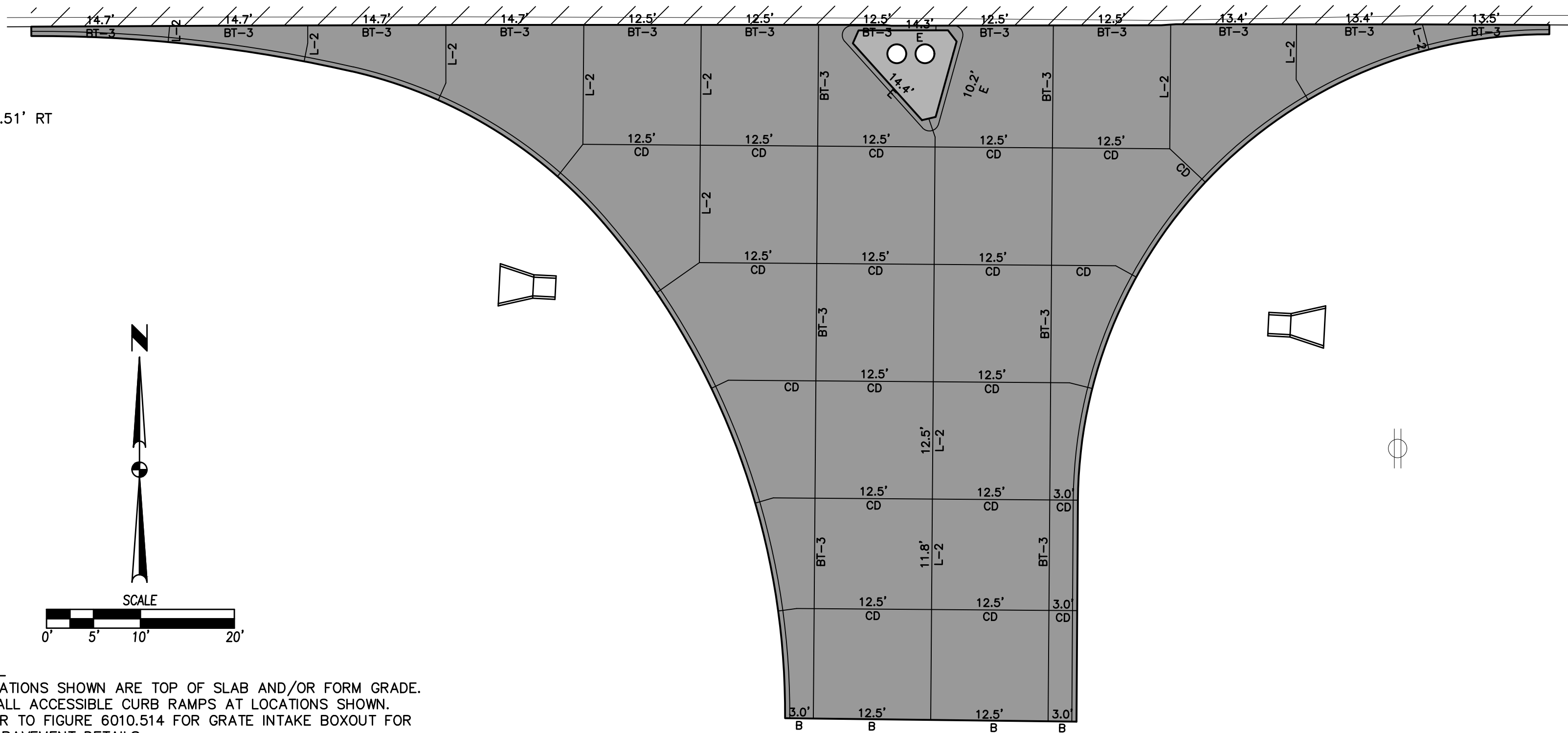
REVISIONS	DATE
REVISED	06/18/18
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ENGINEER: ENH
TECH: MDM



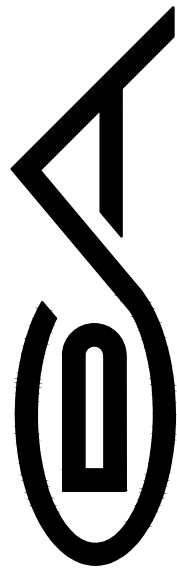
HICKMAN ROAD



A north arrow pointing upwards, labeled 'N' at the top. Below the arrow is a graphic scale bar with markings at 0', 5', 10', and 20'. The word 'SCALE' is written above the bar.

1. ELEVATIONS SHOWN ARE TOP OF SLAB AND/OR FORM GRADE.
2. INSTALL ACCESSIBLE CURB RAMPS AT LOCATIONS SHOWN.
3. REFER TO FIGURE 6010.514 FOR GRATE INTAKE BOXOUT FOR PCC PAVEMENT DETAILS.
4. ADJUST JOINTS TO MATCH EXISTING JOINTS ON HICKMAN ROAD WHERE POSSIBLE.

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ENGINEER: ENH	TECH: MDM



WAIKKEE IOWA

DEERY BROTHERS WAUKEE DEVELOPMENT INTERSECTION DETAILS