3RD AVENUE EAST RECONSTRUCTION PROJECT OSKALOOSA, IOWA 2014 - 2015

DIVISION 1: STORM SEWER AND PAVEMENT RECONSTRUCTION
DIVISION 2: WATER MAIN REHABILITATION

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LICENSED PROFESSIONAL ENGINEER
ROBERT A. NIELSEN, JR.
9945
IOWA

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.

Robert A. Nielsen, Jr., P.E. — 5/21/14 Date
License number: 9945
My license renewal date is December 31, 2015
Pages or sheets covered by this seal: ALL (A.01 THROUGH SW.05)

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3RD AVENUE EAST RECONSTRUCTION PROJECT OSKALOOSA, IOWA

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SHEET TITLE: TITLE SHEET

SCALE: NO SCALE

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: A.01

GENERAL SYMBOLS LEGEND

- = PROPERTY CORNER FOUND
- = SECTION CORNER FOUND
- 800 = EXISTING GROUND CONTOUR LINE
- W = EXISTING WATER LINE (SIZE VARIES)
- = EXISTING FIRE HYDRANT
- = EXISTING WATER VALVE
- = EXISTING WATER SERVICE SHUTOFF
- M = EXISTING WATER METER PIT
- WM = WATER METER
- W = MONITORING WELL
- ST = EXISTING STORM SEWER LINE (SIZE VARIES)
- D = EXISTING STORM SEWER ACCESS
- ST = EXISTING SEPTIC TANK
- S = EXISTING SANITARY SEWER ACCESS
- SS = EXISTING SANITARY SEWER MAIN (SIZE VARIES)
- C = CLEANOUT
- E = ELECTRIC MANHOLE
- OE = OVERHEAD ELECTRIC LINE
- UE = UNDERGROUND ELECTRIC LINE
- EM = ELECTRIC METER
- FO = FIBEROPTIC LINE
- T = TELEPHONE MANHOLE
- TELE PED = TELEPHONE PEDESTAL
- UT = TELEPHONE LINE
- TV PED = TELEVISION PEDESTAL
- TV = TELEVISION LINE
- GM = GAS METER
- GV = GAS VALVE
- G = EXISTING GAS LINE
- = UTILITY POLE
- = GUY WIRE
- = LUMINAIRE
- T = TRANSFORMER
- = SIGN
- = BOLLARD
- = RAILROAD GATE OR SIGNAL
- MB = MAILBOX
- = FLAGPOLE
- DS = DOWNSPOUT
- = TREE OR SHRUB
- = STUMP
- X = FIELD FENCELINE
- O = CHAIN LINK FENCELINE
- = WOOD FENCELINE
- = SILT FENCE
- = BENCHMARK OR ELEVATION MARKER
- = PROPERTY CORNER SET
- = SECTION CORNER SET
- W = PROPOSED WATER MAIN (SIZE VARIES)
- = PROPOSED FIRE HYDRANT
- = PROPOSED WATER VALVE
- = PROPOSED WATER SHUTOFF
- S = PROPOSED SANITARY SEWER MANHOLE
- C = PROPOSED SANITARY SEWER END LINE CLEANOUT
- C = PROPOSED SANITARY SEWER DOUBLE CLEANOUT
- = PROPOSED SANITARY SEWER MAIN (SIZE VARIES)
- LS = PROPOSED LIFT STATION
- FM = PROPOSED SANITARY SEWER FORCE MAIN
- D = PROPOSED STORM SEWER ACCESS
- = PROPOSED STORM SEWER MAIN
- SST = PROPOSED SECONDARY STORM SEWER
- 800 = PROPOSED GROUND CONTOUR LINE
- = SURFACING REMOVAL
- or = CONCRETE SURFACING REPLACEMENT
- = FLOW DIRECTION ARROW
- 1000.00 = FINISH GRADE ELEVATION MARKER

GENERAL ABBREVIATIONS LEGEND

U.A.C.	USE AS CURRENTLY CONSTRUCTED	LF	LINEAR FOOT
R/W	RIGHT OF WAY	SY	SQUARE YARD
R.O.W.	RIGHT OF WAY	CY	CUBIC YARD
P.C.	POINT OF CURVATURE	MJ	MECHANICAL JOINT
P.I.	POINT OF INTERSECTION	PE	PLAIN END JOINT
P.T.	POINT OF TANGENCY	FE	FLANGED JOINT
℄	CENTERLINE	UT	UNION TITE JOINT
TC	TOP OF CURB	S.S.	STAINLESS STEEL
GU	GUTTER	O.C.	ON CENTER
FL	FLOW LINE	I.D.	INSIDE DIAMETER
SB	SOIL BORING	O.D.	OUTSIDE DIAMETER
R	RADIUS	ø	DIAMETER
BTM	BOTTOM	DIA.	DIAMETER
HWL	HIGH WATER LEVEL	#	NUMBER
LWL	LOW WATER LEVEL	TYP	TYPICAL
EA	EACH	INV	INVERT
GPM	GALLONS PER MINUTE	PVC	POLYVINYL CHLORIDE PIPE
IN.	INCHES	DIP	DUCTILE IRON PIPE
FT	FOOT OR FEET	CIP	CAST IRON PIPE
SF	SQUARE FEET	CMP	CORRUGATED METAL PIPE
P-1	STORM SEWER PIPE IDENTIFIER	RCP	REINFORCED CONCRETE PIPE
S-1	STORM SEWER STRUCTURE IDENTIFIER		
OMWD	OSKALOOSA MUNICIPAL WATER DEPARTMENT		

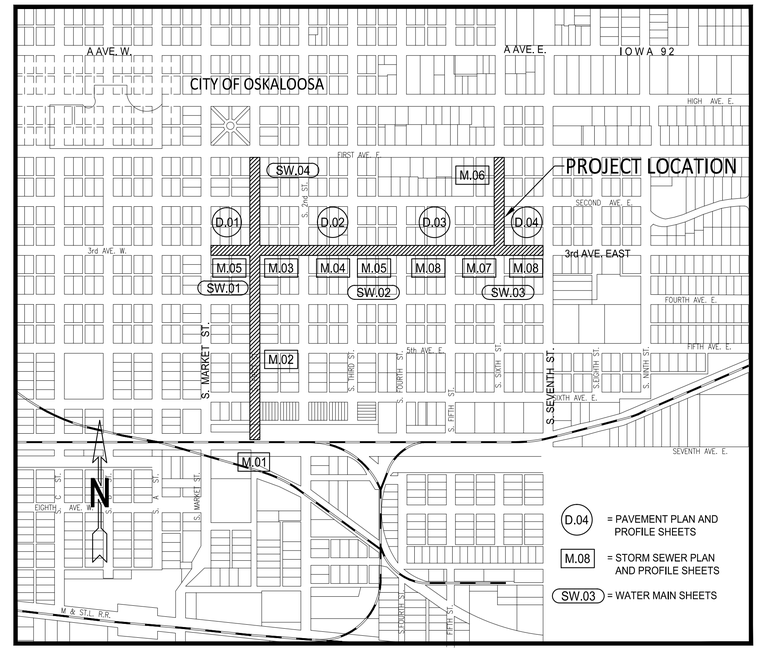
PAVEMENT SURFACING LEGEND

- = 7" THICK PCC PAVEMENT AND PCC FULL DEPTH PATCH
- = COMPOSITE PAVEMENT PATCH (2" HMA OVER 6" PCC)
- = 7" THICK HMA PAVEMENT
- = TWO COURSE SEAL COAT PAVEMENT
- = 6" THICK PCC SIDEWALKS AND DRIVEWAYS
- = 4" THICK PCC SIDEWALKS

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE SUDAS STANDARD SPECIFICATIONS, 2014 EDITION AND CURRENT SUPPLEMENTAL SPECIFICATIONS AND THE DETAILED SPECIFICATION REQUIREMENTS. SPECIFICATION MANUALS CAN BE ORDERED FROM THE INSTITUTE FOR TRANSPORTATION (FORMERLY CTRE) - ATTENTION: BETH RICHARDS, 2711 SOUTH LOOP DRIVE, SUITE 4700, AMES, IOWA 50010-8664, PHONE: 515-294-2869. SPECIFICATIONS CAN ALSO BE VIEWED AT THE SUDAS WEB SITE (WWW.IOWASUDAS.ORG). ALL WATER MAIN MATERIALS SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION, OSKALOOSA MUNICIPAL WATER DEPARTMENT". CONTRACTOR SHALL HAVE A MINIMUM OF ONE SET OF PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
2. NOTIFY AKHILESH PAL, DIRECTOR OF PUBLIC WORKS, CITY OF OSKALOOSA AT 641-673-7472 2 WEEKS PRIOR TO COMMENCING WORK ON THE PROJECT.
3. COORDINATE ALL WATER MAIN WORK WITH CHAD COON, SUPERINTENDENT, OSKALOOSA MUNICIPAL WATER DEPARTMENT (OMWD). CELL PHONE: 641-660-5555.
4. COORDINATE WORK AND COOPERATE WITH CITY PERSONNEL AND ENGINEER.
5. LOCATION OF EXISTING UTILITIES IS APPROXIMATE. VERIFY LOCATION OF EXISTING UTILITIES IN LINE OF CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION BY EXCAVATING AHEAD OF WORK. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES LOCATED IN THE WORK ZONE DURING CONSTRUCTION AT LEAST 48 HOURS PRIOR TO EXCAVATION.
6. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION UNLESS OTHERWISE SHOWN ON PLANS. ANY UTILITIES DAMAGED DUE TO CONTRACTOR'S NEGLIGENCE WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.
7. THERE MAY BE BURIED UTILITIES NOT SHOWN ON PLANS THAT ARE IN LINE OF CONSTRUCTION.
8. NOTIFY PROPERTY OWNERS 48 HOURS IN ADVANCE IF ACCESS TO PROPERTY WILL BE INTERRUPTED. ACCESS TO PRIVATE PROPERTY SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY VEHICLES. PROVIDE PEDESTRIAN ACCESS TO RESIDENCES AND BUSINESSES DURING THE CONSTRUCTION PERIOD.
9. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS SHOWN ON THE TRAFFIC CONTROL PLAN AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF OSKALOOSA REQUIREMENTS. TRAFFIC CONTROL SHALL CONSIST OF BARRICADES, SIGNAGE AND LIGHTS AS NECESSARY TO PROTECT VEHICLES AND PEDESTRIAN TRAFFIC. CONTRACTOR SHALL MAINTAIN, CLEAN AS NECESSARY AND REPLACE DAMAGED TRAFFIC CONTROL DEVICES THROUGHOUT DURATION OF CONSTRUCTION.
10. CONTRACTOR SHALL PRESERVE ALL MONUMENTS, STAKES, REFERENCE POINTS AND BENCHMARKS. IN CASE OF DESTRUCTION BY CONTRACTOR'S NEGLIGENCE OR CARELESSNESS, CONTRACTOR WILL BE RESPONSIBLE FOR COST OF REPLACEMENT, MISTAKES, AND/OR LOSS OF TIME.
11. REMOVE AND DISPOSE OF EXISTING STRUCTURES AND PIPES WHERE SHOWN ON THE PLANS. REMOVE ENTIRE RUNS OF PIPE WHERE IN DIRECT CONFLICT WITH NEW CONSTRUCTION. PLUG PIPES TO BE ABANDONED WITH CONCRETE. REMOVAL AND DISPOSAL OF PIPES IS INCIDENTAL TO CONSTRUCTION. REMOVAL OF STRUCTURES WILL BE PAID AT THE CONTRACT UNIT PRICE.
12. CONTRACTOR SHALL MAINTAIN POSTAL SERVICE IN ACCORDANCE WITH SECTION 1070 2.14 OF THE SPECIFICATIONS. WORK IS INCIDENTAL TO CONSTRUCTION.
13. SIGNS AND SIGN POSTS IN LINE OF CONSTRUCTION SHALL BE REMOVED, SALVAGED, AND STORED BY THE CONTRACTOR. UPON COMPLETION OF PAVING AND GRADING OPERATIONS, REPLACE SIGNS AT A LOCATION DETERMINED BY THE OWNER. SIGNS SHALL BE RESET IN A MINIMUM 4 FOOT DEEP BY 12 INCH DIAMETER GRAVEL PACKED HOLE. REMOVAL AND RESETTING OF SIGNS IS INCIDENTAL TO CONSTRUCTION. COORDINATE SIGN WORK WITH JURISDICTION.
14. CONTRACTOR SHALL PREVENT ENTRY OF MUD, DIRT, DEBRIS AND OTHER MATERIAL INTO NEW SEWER AND EXISTING SEWERS. SHOULD MUD, DIRT, DEBRIS, OR OTHER MATERIAL ENTER THE NEW SEWER CONSTRUCTION OR EXISTING SEWERS, CONTRACTOR SHALL CLEAN AT NO COST TO OWNER.
15. REMOVE TREES AND STUMPS AS SHOWN ON PLANS. PROTECT TREES NOT SHOWN FOR REMOVAL. TRIM TREE CANOPIES ONLY WITH APPROVAL OF JURISDICTION. TRIMMING OF TREE CANOPIES IS INCIDENTAL TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DEBRIS RESULTING FROM TREE/STUMP REMOVAL AND TRIMMING.
16. CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS, UNSUITABLE MATERIAL FOR TRENCH BACKFILL AND SURFACE RESTORATION AND EXCESS EXCAVATED MATERIAL. DISPOSAL SHALL MEET FEDERAL, STATE AND LOCAL SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTS. WORK IS INCIDENTAL TO CONSTRUCTION.
17. CONTRACTOR RESPONSIBLE FOR MAINTAINING THE AS-BUILT LOCATION OF ALL UTILITIES.
18. RCP STORM SEWER PIPE SHALL BE MINIMUM 2000D. ALL STORM SEWER PIPE SHALL HAVE GASKETED JOINTS PER SPECIFICATIONS. INSTALL SW-211 TYPE PC-2 CONCRETE COLLAR FOR CONNECTION BETWEEN EXISTING AND NEW PIPES AS NECESSARY AND WHERE SHOWN ON THE PLANS. INCLUDE COST OF PIPE CONNECTIONS IN UNIT PRICE FOR STORM SEWER.
19. WATER SERVICES THAT ARE IN CONFLICT WITH THE NEW STORM SEWER PIPE SHALL BE LOWERED AS REQUIRED. PAYMENT FOR LOWERING WATER SERVICE SHALL BE AT THE CONTRACT UNIT PRICE.
20. CONCRETE MIX SHALL BE IDOT C-3WR-C OR C-4WR-C FOR ALL PAVEMENT, DRIVEWAYS AND SIDEWALKS. COARSE AGGREGATE SHALL BE CLASS 3 DURABILITY. USE OF FLY ASH AND GROUND GRANULATED BLAST FURNACE SLAG (GGBFS) SHALL BE IN ACCORDANCE WITH SECTION 7010 2.02 C OF THE SPECIFICATIONS.
21. COARSE AND FINE AGGREGATES SHALL BE FURNISHED FROM AN APPROVED SOURCE IN ACCORDANCE WITH THE SPECIFICATIONS. METHOD OF ACCEPTANCE FOR COARSE AND FINE AGGREGATES SHALL BE BY QUALITY CERTIFICATION FURNISHED BY THE CONTRACTOR. CERTIFIED PLANT INSPECTION IS NOT REQUIRED.
22. CONTRACTOR SHALL BE RESPONSIBLE PARTY FOR ALL TESTING AND RE-TESTING OF P.C. CONCRETE REQUIRED BY THE SPECIFICATIONS INCLUDING; AIR CONTENT, SLUMP, AND CYLINDERS.
23. USE TYPE "C" JOINTS FOR ALL TRANSVERSE PAVEMENT JOINTS UNLESS SHOWN OR NOTED OTHERWISE ON THE PLANS. ALL PAVEMENT SAW JOINTS SHALL BE SEALED. DO NOT SEAL DRIVEWAY OR SIDEWALK SAW JOINTS.
24. PAVEMENT SMOOTHNESS WILL BE MEASURED BY A PROFILOGRAPH AND WILL FOLLOW SCHEDULE B AND RELATED REQUIREMENTS OF IOWA DOT 2316 AND I.M. 341. NO INCENTIVES FOR PAVEMENT SMOOTHNESS WILL BE ALLOWED. THE COST OF CORRECTING THE SMOOTHNESS AND ASSOCIATED TRAFFIC CONTROL SHALL BE INCIDENTAL TO THE COST OF PAVEMENT. CONTRACTOR RESPONSIBLE FOR PERFORMING PAVEMENT SMOOTHNESS TEST AND ANY CORRECTIVE MEASURES REQUIRED.
25. CONSTRUCT ALL NEW SIDEWALKS IN ACCORDANCE WITH ADA REQUIREMENTS UNLESS SHOWN OTHERWISE ON THE PLANS.
26. DURING PERIODS WHEN 3RD AVENUE EAST IS CLOSED TO THROUGH TRAFFIC, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING GARBAGE COLLECTION SERVICE BY PLACING DUMPSTERS AT CENTRAL LOCATIONS FOR THE LOCAL RESIDENTS TO USE AND ARRANGING FOR THEM TO BE EMPTIED ON A REGULAR BASIS. WORK IS INCIDENTAL TO CONSTRUCTION.
27. FERTILIZE, SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION. ON 3RD AVENUE EAST, THE ENTIRE AREA BETWEEN THE BACK OF CURB AND SIDEWALK FOR THE LENGTH OF THE PROJECT SHALL BE SEEDED. USE TYPE 1 LAWN MIXTURE.
28. THE JURISDICTION WILL PROVIDE CONSTRUCTION STAKING ONE TIME ONLY FOR THE FOLLOWING OPERATIONS:
    1) STORM SEWER STRUCTURES AND PIPING
    2) WATER MAIN - PIPE LOCATION AND APPRUTENANCES
    3) STREET PAVING - MAINLINE AND INTERSECTIONS

    ADDITIONAL STAKING AND REPLACEMENT OF STAKES DAMAGED AS A RESULT OF CONTRACTOR'S NEGLIGENCE SHALL BE AT CONTRACTOR'S EXPENSE.
29. SANITARY SEWER GRAVITY MAIN PIPE MATERIAL SHALL BE SOLID WALL PVC (SDR 35) AS SPECIFIED IN SECTION 4010 2.01 A OR TRUSS TYPE PVC AS SPECIFIED IN SECTION 4010 2.01 E OR AS SHOWN ON PLANS. SANITARY SEWER SERVICE PIPE SHALL BE SOLID WALL PVC (SDR 23.5). INSTALL, BED AND BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS. USE CLASS F-3 BEDDING FOR SOLID WALL PVC (SDR 35) PIPE. USE CLASS F-2 OR CLASS F-3 BEDDING FOR TRUSS TYPE PVC AND SOLID WALL PVC (SDR 23.5).
30. TEST NEW SANITARY SEWERS IN ACCORDANCE WITH SPECIFICATIONS. REQUIRED TESTS:
    A) VISUAL INSPECTION (4060 3.02)
    B) VIDEO INSPECITION (4060 3.03)
    C) DEFLECTION TESTING (4060 3.05)
    D) SANITARY SEWER MANHOLE TESTING (6030 3.04)
31. ELEVATIONS SHOWN FOR MANHOLE TOPS ARE APPROXIMATE. MAKE FINAL ADJUSTMENTS IN FIELD AS DIRECTED BY OWNER.
32. SANITARY SEWER MANHOLE LIDS ARE TO BE ANCHORED AND BOLTED TO CONE SECTION OF MANHOLE WITH 2 - 1/2"Ø STAINLESS STEEL SETS OF BOLTS, WASHERS AND NUTS. USE SW-601 TYPE D STANDARD DUTY CASTING WITH INTERNAL CHIMNEY SEAL.



PROJECT LOCATION MAP
APPROX. SCALE: 1" = 500'

CONSTRUCTION STAGING NOTES

1. PRIOR TO BEGINNING WORK ON THE PROJECT, CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE AND STAGING PLAN FOR APPROVAL BY THE JURISDICTION.
2. NO PAVEMENT REMOVAL OR STORM SEWER INSTALLATION WILL BE ALLOWED ON 3RD AVENUE EAST UNLESS THE PAVING OPERATION CAN BE COMPLETED PRIOR TO WORK BEING SUSPENDED DUE TO UNFAVORABLE AND/OR WINTER WEATHER CONDITIONS.
3. NEW WATER SERVICES SHALL BE BORED OR AUGERED IN PLACE UNDER 3RD AVENUE EAST FOR AREAS OF THE ROADWAY THAT WILL NOT BE PAVED PRIOR TO SUSPENDING WORK FOR UNFAVORABLE WEATHER CONDITIONS.
4. PAVING ON 3RD AVENUE EAST MAY BE PHASED TO ALLOW FOR PARTIAL COMPLETION PRIOR TO SUSPENDING WORK FOR WINTER WEATHER CONDITIONS. FURNISH AND PLACE GRANULAR SURFACING AS DIRECTED BY THE JURISDICTION TO TRANSITION FROM NEW PAVEMENT TO EXISTING. GRANULAR SURFACING MATERIAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR GRANULAR DRIVEWAYS.

UTILITY CONTACT INFORMATION

UTILITY	ORGANIZATION/REPRESENTATIVE	PHONE
SANITARY SEWER	CITY OF OSKALOOSA PUBLIC WORKS - AKHILESH PAL, P.E.	641-673-7472
STORM SEWER	CITY OF OSKALOOSA PUBLIC WORKS - AKHILESH PAL, P.E.	641-673-7472
WATER	OSKALOOSA MUNICIPAL WATER DEPARTMENT - CHAD COON	641-660-5555
NATURAL GAS (DISTRIBUTION)	MID AMERICAN ENERGY - JEFF FERGUSON	641-660-3068
ELECTRIC	MID AMERICAN ENERGY - JASON SANDIFER	641-660-7217
COMMUNICATIONS	MAHASKA COMMUNICATION GROUP - ANDY PADGETT	641-676-1000
COMMUNICATIONS	IOWA NETWORK SERVICES - CHRIS HARBOUR	515-238-2648
COMMUNICATIONS	WINDSTREAM - CLARK LUNDY	515-309-1172
TELEVISION	MEDIACOM - DARREN WALKER	319-753-6589
TELEPHONE	CENTURY LINK - DUSTIN WITHERS	515-263-7202

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
LEGEND, LOCATION MAP AND GENERAL NOTES

SCALE: AS NOTED
FIELD BOOK: 70-NN-4
DRAWN BY: KJR
APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: A.02

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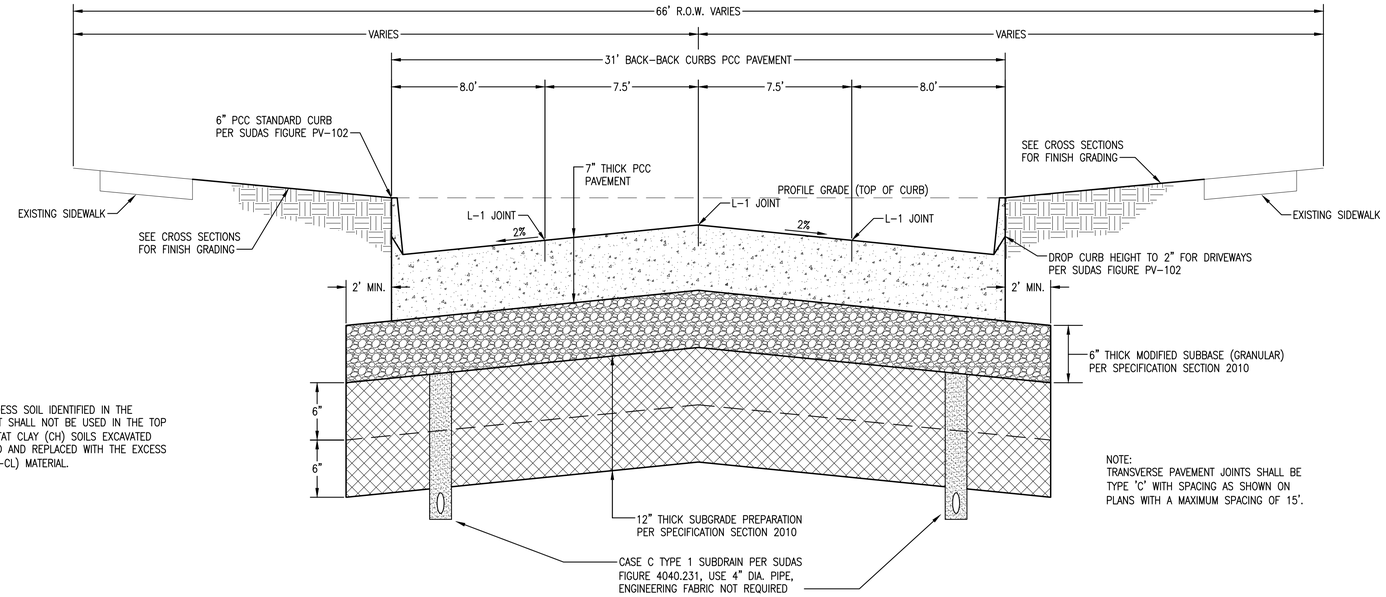
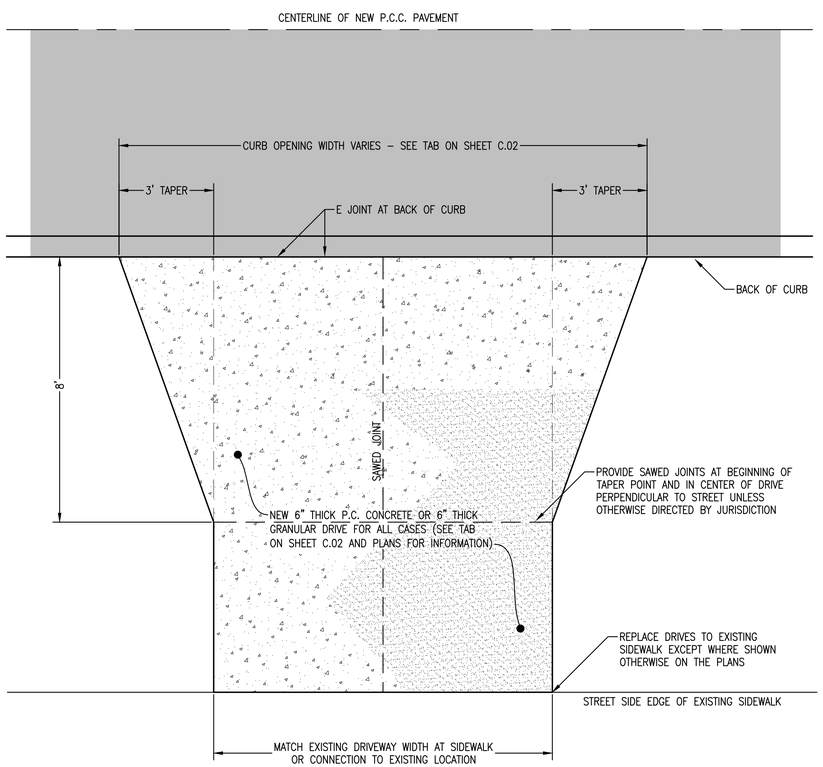


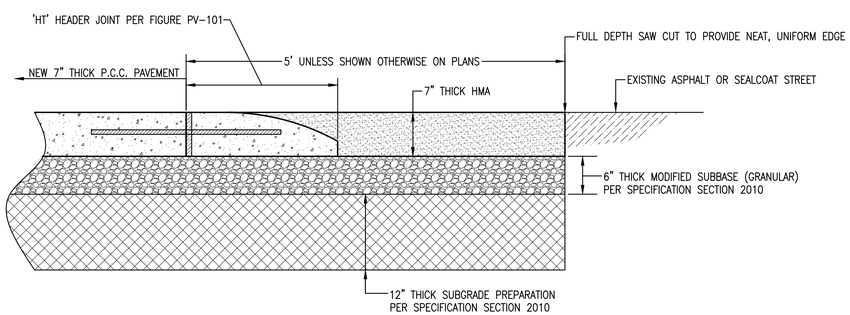
SUBGRADE PREPARATION NOTE:
THE FAT CLAY (CH) B-HORIZON LOESS SOIL IDENTIFIED IN THE GEOTECHNICAL ENGINEERING REPORT SHALL NOT BE USED IN THE TOP 6" OF THE PREPARED SUBGRADE. FAT CLAY (CH) SOILS EXCAVATED FROM THIS ZONE SHALL BE WASTED AND REPLACED WITH THE EXCESS EXCAVATED LEAN TO FAT CLAY (CH-CL) MATERIAL.

NOTE:
TRANSVERSE PAVEMENT JOINTS SHALL BE TYPE 'C' WITH SPACING AS SHOWN ON PLANS WITH A MAXIMUM SPACING OF 15'.

TYPICAL 7" P.C.C. PAVEMENT SECTION - 3RD AVENUE EAST B.O.P. TO E.O.P.
31' WIDE X 7" THICK PCC PAVEMENT
NO SCALE



TYPICAL LAYOUT PLAN FOR DRIVEWAY REPLACEMENT
NO SCALE



TYPICAL SECTION - PAVEMENT TRANSITION NEW P.C.C. PAVEMENT
TO EXISTING ASPHALTIC PAVEMENT AT INTERSECTIONS
NO SCALE

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OSKALOOSA, IOWA

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SHEET TITLE
TYPICAL SECTIONS AND DETAILS

SCALE: NO SCALE
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ESTIMATED PROJECT QUANTITIES

Item No.	Bid Item Description No.	Bid Item Description	Unit	Estimated Quantity			Remarks
				Division 1	Division 2	Total	
1	1090-105-D	Mobilization	LS	XXX	XXX	XXX	
2	2010-108-A-0	Clearing and Grubbing	UNIT	540	390	930	Clearing and grubbing includes removal of existing tree and stumps. Stumps are to be ground below grade to a depth of 1' below curb. Cost of grinding stumps shall be included in unit price for clearing and grubbing of trees per unit. Remove only trees that are shown for removal on the plans. Final payment will be based on plan quantity unless Jurisdiction authorizes additional trees to be removed that are not indicated for removal on the plan.
3	2010-108-E-0	Excavation, Class 10	CY	2,225		2,225	Class 10 Excavation was calculated by the average end area method with cross sections spaced a maximum of 50 LF resulting in a total cut quantity of 2,225 Cubic Yards (CY). Based on shrinkage factor of 30%, it is estimated there will be <20 CY of fill required resulting in an excess of approximately 2,210 CY. Contractor will be required to dispose of excess excavation. Payment for excavation will be based on plan quantity unless a change in horizontal or vertical alignment is made and approved by the Jurisdiction. Item also includes stripping (minimum 8" lift), salvaging, and respreading of topsoil on site. Top 6" of respread topsoil shall be prepared for seeding per specifications. No separate payment will be made for handling of topsoil.
4	2010-108-G-0	Subgrade Preparation (12" Thick)	SY	10,515		10,515	See typical section on Sheet B.01. Provide compaction with moisture density control in accordance with Section 2010 3.04 D. Contractor shall adjust the moisture content of the soil if required to meet the specification requirements by scarifying, disking or adding water as directed by the Jurisdiction.
5	2010-108-I-0	Granular Subbase, 6" Thick Modified Subbase	SY	10,515		10,515	Material shall be IDOT 4123 Gradation No. 14, Modified Subbase.
6	2010-108-L-0	Compaction Testing	LS	XXX		XXX	
7	3010-108-C-0	Trench Foundation	TON	50		50	Use only where authorized by Jurisdiction. The limitation for increase or decrease in work outlined in Specification Section 1040 1.06 does not apply to this bid item. Owner may authorize use of all, part, or none of the estimated quantity at the unit price as bid.
8	3010-108-F-0	Trench Compaction Testing - Sanitary and Storm Sewer	LS	XXX		XXX	Item is for testing trench backfill for sanitary and storm sewer construction.
9	3010-108-F-0	Trench Compaction Testing - Water Main	LS		XXX	XXX	Item is for testing trench backfill for water main construction.
10	4010-108-A-1	Sanitary Sewer Gravity Main, Trenched, PVC or TRUSS, 12"	LF	70		70	Replace existing sanitary sewer where shown on plans. Include removal and disposal of existing sanitary sewer in unit price for new sanitary sewer.
11	4010-108-A-1	Sanitary Sewer Gravity Main, Trenched, PVC or TRUSS, 8"	LF	507		507	
12	4010-108-A-1	Sanitary Sewer Gravity Main, Trenched, DIP, 8"	LF	20		20	
13	4010-108-E-0	Sanitary Sewer Service Stub, PVC, 8"	LF	30		30	
14	4010-108-E-0	Sanitary Sewer Service Stub, PVC, 6"	LF	130		130	Item is for replacement of existing sanitary sewer service lines where necessary. New pipe material shall be SDR 23.5 PVC with approved couplings. Unit price includes removal and disposal of existing pipe and connections to existing pipes. Use only where authorized by the Jurisdiction. The limitation for increase or decrease in work outlined in Specification Section 1040 1.06 does not apply to this bid item. Owner may authorize use of all, part, or none of the estimated quantity at the unit price as bid.
15	4020-108-A-1	Storm Sewer Trenched, RCP, 12"	LF	5		5	
16	4020-108-A-1	Storm Sewer Trenched, RCP, 15"	LF	1,640		1,640	
17	4020-108-A-1	Storm Sewer Trenched, RCP, 18"	LF	570		570	
18	4020-108-A-1	Storm Sewer Trenched, RCP, 21"	LF	651		651	
19	4020-108-A-1	Storm Sewer Trenched, RCP, 24"	LF	335		335	
20	4020-108-A-1	Storm Sewer Trenched, RCP, 27"	LF	322		322	
21	4020-108-A-1	Storm Sewer Trenched, RCP, 36"	LF	585		585	
22	4040-108-A-0	Subdrain, Type 1, PE or PVC, 4"	LF	4,535		4,535	
23	4040-108-D-0	Subdrain Outlets and Connections, 4"	EA	44		44	
24	5010-108-A-1	Water Main Trenched, PVC, 8"	LF		2,500	2,500	
25	5010-108-A-2	Water Main Trenchless, PVC, 8"	LF		160	160	Use RJ-PVC pipe as specified in Division 3 - Water Main and Appurtenances, Standard Specifications for Water Main Construction, Oskaloosa Municipal Water Department.
26	5010-108-A-2	Water Main Trenchless, DIP, 8"	LF		280	280	Use RJ-DIP pipe as specified in Division 3 - Water Main and Appurtenances, Standard Specifications for Water Main Construction, Oskaloosa Municipal Water Department. Install with Teflon/Fluoro (FKM) gaskets as specified.
27	5010-108-D-0	Water Service Stub, Copper, 1"	EA		58	58	Item includes; saddle, corporation, service line, curb stop and box, and connection to existing service line as specified.
28	5010-108-D-0	Water Service Stub, Copper, 1", Without New Curb Stop and Box	EA		5	5	Item includes; saddle, corporation, service line and connection to existing service line as specified. New curb stop and box not required for this item.
29	5020-108-A-0	Gate Valve, 8" - Install Only	EA		18	18	Gate valve will be supplied by the Oskaloosa Municipal Water Department. See plan notes and specifications for more information.
30	5020-108-B-0	Tapping Valve Assembly, 4"x4"	EA		1	1	
31	5020-108-C-0	Fire Hydrant Assembly - Install Only	EA		8	8	Fire hydrant and valve will be supplied by the Oskaloosa Municipal Water Department. See plan notes and specifications for more information.
32	XXXX-XXX-X-X	Existing Fire Hydrant Removal	EA		6	6	Item includes removal and disposal of existing hydrant and valve assemblies and plugging or capping of any pipe that remains in place.
33	XXXX-XXX-X-X	Lower Existing Water Service	EA	20		20	Use only where authorized by Jurisdiction. The limitation for increase or decrease in work outlined in Specification Section 1040 1.06 does not apply to this bid item. Owner may authorize use of all, part, or none of the estimated quantity at the unit price as bid.
34	XXXX-XXX-X-X	Lower Existing Water Main, 4" and 6"	EA	5		5	Use only where authorized by Jurisdiction. The limitation for increase or decrease in work outlined in Specification Section 1040 1.06 does not apply to this bid item. Owner may authorize use of all, part, or none of the estimated quantity at the unit price as bid.
35	XXXX-XXX-X-X	Water Main Connection - Connection No. 1	LS		XXX	XXX	
36	XXXX-XXX-X-X	Water Main Connection - Connection No. 2	LS		XXX	XXX	
37	XXXX-XXX-X-X	Water Main Connection - Connection No. 3	LS		XXX	XXX	
38	XXXX-XXX-X-X	Water Main Connection - Connection No. 4	LS		XXX	XXX	
39	XXXX-XXX-X-X	Water Main Connection - Connection No. 5	LS		XXX	XXX	
40	XXXX-XXX-X-X	Water Main Connection - Connection No. 6	LS		XXX	XXX	
41	6010-108-A-0	Sanitary Sewer Manhole, SW-301, 48" Dia.	EA	5		5	
42	6010-108-A-0	Storm Sewer Manhole, SW-401, 48" Dia.	EA	2		2	
43	6010-108-A-0	Storm Sewer Manhole, SW-401, 60" Dia.	EA	3		3	
44	6010-108-A-0	Storm Sewer Manhole, SW-401, 72" Dia., Structure S-1	EA	1		1	Item includes 42" RCP and concrete collar connection to existing brick drainage structure as noted on the plans.
45	6010-108-A-0	Storm Sewer Manhole, SW-401, 72" Dia., Structure S-2	EA	1		1	
46	6010-108-A-0	Storm Sewer Manhole, SW-402, 6.5'x4.5'	EA	1		1	Structure shall be cast-in-place to accommodate the 2 existing 12" RCP pipe inlets on the west side of structure.
47	6010-108-B-0	Intake, SW-501	EA	17		17	
48	6010-108-B-0	Intake, SW-502, 48" Dia.	EA	9		9	
49	6010-108-B-0	Intake, SW-502, 60" Dia.	EA	5		5	
50	6010-108-C-0	Drop Connection, 8"	EA	2		2	
51	6010-108-H-0	Remove Manhole	EA	9		9	
52	6010-108-H-0	Remove Intake	EA	8		8	
53	6020-108-A-0	Infiltration Barrier, Chimney Seal	EA	5		5	Install internal chimney seal on all new sanitary sewer manholes.
54	7010-108-A-0	Pavement, PCC, 7" Thick	SY	9,280		9,280	
55	7010-108-I-0	PCC Pavement Samples and Testing	LS	XXX		XXX	This item also includes sampling and testing for PCC Sidewalks and Driveways as specified for PCC Pavement.
56	7020-108-A-0	Pavement, HMA	TON	70		70	
57	XXXX-XXX-X-X	Pavement Markings	LS		XXX	XXX	Item is for replacement on South 1st Street where water main construction will disturb existing parking pavement markings. All pavement markings shall be in accordance with IDOT Specification Section 2527.
58	7030-108-A-0	Removal of Sidewalk	SY	720	15	735	
59	7030-108-A-0	Removal of Driveway	SY	811	33	844	
60	7030-108-E-0	Sidewalk, PCC, 4" Thick	SY	300	18	318	
61	7030-108-E-0	Sidewalk, PCC, 6" Thick	SY	480		480	
62	7030-108-G-0	Detectable Warnings, Install Only	SF	574		574	Detectable warning panels will be supplied by the Jurisdiction. Contractor shall pick up the panels as needed at the City of Oskaloosa Public Works Office, 804 South D Street.
63	7030-108-H-1	Driveway, Paved PCC, 6" Thick	SY	814	33	847	
64	7030-108-H-2	Driveway, Granular, 6" Thick	TON	160		160	Material shall be IDOT 4120 Gradation No. 11, Class A Crushed Stone compacted in place.
65	7040-108-A-0	Full Depth Patch, PCC	SY	200	42	242	Full Depth PCC (Repair) Patches shall be minimum 7" thick on a 6" thick compacted granular subbase (7040-108-B-0 Subbase Overexcavation).
66	7040-108-A-0	Full Depth Patch, Composite Pavement	SY	315	180	495	Full Depth Composite Pavement (Repair) Patches shall be 2" HMA over minimum 6" PCC on a 6" thick compacted granular subbase (7040-108-B-0 Subbase Overexcavation).
67	7040-108-B-0	Subbase Overexcavation	TON	170	70	240	Material shall be IDOT 4120 Gradation No. 11, Class A Crushed Stone 6" thick compacted in place.
68	7040-108-H-0	Pavement Removal	SY	10,840		10,840	Item includes removal of all existing asphaltic pavement, asphalt over concrete pavement, asphalt over brick pavement, concrete pavement and concrete curb and gutter as noted on the plans.
69	7060-108-A-0	Bituminous Seal Coat - Two Course	SY	1,450		1,450	Unit price includes 6" thick granular subbase (IDOT 4120 Gradation No. 11, Class A Crushed Stone) compacted in place.
70	9010-108-A-0	Conventional Seeding, Fertilizing, and Mulching	ACRE	1.60		1.60	Use Type 1 Permanent Lawn Mixture.
71	9040-108-A-1	SWPPP Preparation	LS	XXX		XXX	
72	9040-108-A-2	SWPPP Management	LS	XXX		XXX	No separate payment will be made for installation, maintaing or removing structural controls required to meet the requirements of the Storm Water Pollution Prevention Plan. Installation of silt fence, filter socks, etc. to prevent sediment and pollutants from entering the storm sewer system and/or leaving the construction site is incidental to construction.
73	9040-108-A-3	SWPPP Qualifying Rainfall Event Inspection	EA	40		40	
74	XXXX-XXX-X-X	Traffic Control	LS	XXX	XXX	XXX	

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
ESTIMATED PROJECT QUANTITIES

SCALE: NO SCALE

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: C.01

G:\Projects\5013368 - Oskaloosa - 3rd Ave East Reconstr and South 1st Str Storm Sewer\Drafting\Civil 3D Plan Drawings\A-B-C-J Sheets 5013368.dwg

DRIVEWAY TABULATION

ROAD	STATION	SIDE	LENGTH OF 2" DROPPED CURB OPENING (LF)	DIVISION 1	DIVISION 2	DIVISION 1		DIVISION2		REMARKS
				EXISTING DRIVEWAY SURFACING REMOVAL AREA (SY)	EXISTING DRIVEWAY SURFACING REMOVAL AREA	NEW DRIVEWAY SURFACING TYPE		NEW DRIVEWAY SURFACING TYPE		
						6" PCC (SY)	GRANULAR (TONS)	6" PCC (SY)	GRANULAR (TONS)	
S 1ST ST	1+68	LT	NA	18		19				STORM SEWER CONSTRUCTION
S 1ST ST	3+60	LT	NA	64		68				STORM SEWER CONSTRUCTION
S 1ST ST	4+70	LT	NA	40		45				STORM SEWER CONSTRUCTION
S 1ST ST	6+90	LT	NA	22		21				STORM SEWER CONSTRUCTION
S 1ST ST	7+50	LT	NA	26		25				STORM SEWER CONSTRUCTION
S 1ST ST	8+20	LT	NA	45		44				STORM SEWER CONSTRUCTION
S 1ST ST	10+70	LT	NA	27		25				STORM SEWER CONSTRUCTION
3RD AVE E	0+86	LT	29	32		32				ROAD RECONSTRUCTION
3RD AVE E	0+96	RT	16	14		16				ROAD RECONSTRUCTION
3RD AVE E	1+54	LT	46	56		56				ROAD RECONSTRUCTION
3RD AVE E	1+68	RT	23	22		24				ROAD RECONSTRUCTION
3RD AVE E	2+27	RT	14	12		13				ROAD RECONSTRUCTION
3RD AVE E	5+05	LT	19	20		20				ROAD RECONSTRUCTION
3RD AVE E	5+05	RT	21	20		21				ROAD RECONSTRUCTION
3RD AVE E	5+78	RT	16	13		15				ROAD RECONSTRUCTION
3RD AVE E	8+29	LT	22	23		24				ROAD RECONSTRUCTION
3RD AVE E	8+29	RT	22	20		24				ROAD RECONSTRUCTION
3RD AVE E	9+21	LT	20	19		21				ROAD RECONSTRUCTION
3RD AVE E	10+77	LT	19				6			ROAD RECONSTRUCTION
3RD AVE E	10+77	RT	22	21		23				ROAD RECONSTRUCTION
3RD AVE E	11+27	LT	28	26		30				ROAD RECONSTRUCTION
3RD AVE E	11+49	LT	15	17		15	5			ROAD RECONSTRUCTION
3RD AVE E	11+49	RT	19	19		20				ROAD RECONSTRUCTION
3RD AVE E	14+69	LT	23	28		23	5			ROAD RECONSTRUCTION
3RD AVE E	14+69	RT	23	33		25	5			ROAD RECONSTRUCTION
3RD AVE E	17+92	LT	19	18		19				ROAD RECONSTRUCTION
3RD AVE E	17+92	RT	19	21		21				ROAD RECONSTRUCTION
3RD AVE E	18+17	RT	26	29		30				ROAD RECONSTRUCTION
3RD AVE E	21+12	LT	23	36		30				ROAD RECONSTRUCTION
3RD AVE E	21+12	RT	22	29		23	4			ROAD RECONSTRUCTION
3RD AVE E	22+00	RT	24	25		26				ROAD RECONSTRUCTION
3RD AVE E	22+22	LT	16	16		16				ROAD RECONSTRUCTION
S 1ST ST	NA	LT			15			15		WATER MAIN CONSTRUCTION
S 1ST ST	NA	LT	NA		10			10		WATER MAIN CONSTRUCTION – SERVICE LINE
S 1ST ST	NA	LT	NA		5			5		WATER MAIN CONSTRUCTION – HYDRANT INSTALL
			TOTAL	811	30	814	25	30		

NOTES:
1. EXISTING DRIVEWAY REMOVAL (SY) INCLUDES ALL BRICK, ASPHALT, AND CONCRETE DRIVEWAYS.
2. REMOVAL OF GRAVEL DRIVEWAYS IS INCLUDED IN ITEM FOR CLASS 10 EXCAVATION.
3. ALL NEW P.C.C. DRIVES TO BE "TYPE A WITH FLARES" IN ACCORDANCE WITH SUDAS FIGURE 7030.101 WITH DIMENSIONS AS SHOWN ON DETAIL ON SHEET B.01.

SUBDRAIN OUTLET INSTALLATION (FIGURE 4040.233)

USE 4" OUTLET PIPE AS SPECIFIED WITH RODENT GUARD ON ALL OUTLETS

LOCATION	NUMBER OF OUTLETS	REMARKS
1+12.50 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
1+12.50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
2+12.50 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
2+12.50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
3+62.37 LT	1	COMBINE SUBDRAINS LEFT AND RIGHT AND OUTLET TO NEW SW-502 INTAKE
7+15 LT	2	INSTALL OUTLETS IN NEW SW-502 INTAKE
7+15 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
8+62.50 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
8+62.50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
10+12.50 LT	2	INSTALL OUTLETS IN NEW SW-401 MANHOLE
10+12.89 RT	1	TEE SUBDRAIN AND OUTLET TO NEW SW-502 INTAKE
12+00 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
12+00 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
13+62.50 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
13+62.50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
15+45 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
15+45 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
17+50 LT	2	INSTALL OUTLETS IN NEW SW-502 INTAKE
17+50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
19+00 LT	2	INSTALL OUTLETS IN NEW SW-502 INTAKE
19+00 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
20+50 LT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
20+50 RT	2	INSTALL OUTLETS IN NEW SW-501 INTAKE
TOTAL	44	

EXISTING INTAKE AND MANHOLE REMOVAL

ROAD	STATION	STRUCTURE TYPE	COUNT
S 1ST ST	0+07	MANHOLE	1
S 1ST ST	0+71	INTAKE	1
S 1ST ST	1+10	INTAKE	1
S 1ST ST	2+43	MANHOLE	1
S 1ST ST	2+85	MANHOLE	1
S 1ST ST	2+86	INTAKE	1
S 1ST ST	4+24	MANHOLE	1
S 1ST ST	6+08	MANHOLE	1
S 1ST ST	6+11	INTAKE	1
S 1ST ST	9+29	MANHOLE	1
S 1ST ST	9+34	INTAKE	1
3RD AVE E	3+12	INTAKE	1
3RD AVE E	3+15	MANHOLE	1
3RD AVE E	3+61	INTAKE	1
S 6TH ST	0+00	INTAKE	1
		TOTAL	15

STORM SEWER STRUCTURE TABLE (SOUTH 6TH STREET OUTLET)

STRUCTURE NO.	NORTHING	EASTING	TOP OF CURB OR RIM ELEV.	STRUCTURE TYPE
N-1	19816.11	21861.46	836.65	SW-502 INTAKE, 60" DIA.
N-2	19815.70	21876.64	836.84	SW-401 MANHOLE, 60" DIA.
N-3	19532.97	21878.51	840.71	SW-401 MANHOLE, 48" DIA.
N-4	19202.22	21880.70	844.67	SW-401 MANHOLE, 60" DIA.
N-5	19202.86	21834.18	844.92	SW-502 INTAKE, 48" DIA.
N-6	19171.87	21834.41	844.92	SW-501 INTAKE
N-7	19164.77	21863.73	844.85	SW-502 INTAKE, 48" DIA.
N-8	19165.11	21909.37	844.85	SW-502 INTAKE, 48" DIA.
N-9	19201.73	21684.18	845.12	SW-502 INTAKE, 48" DIA.
N-10	19170.73	21684.42	845.12	SW-501 INTAKE
N-11	19200.17	21479.19	845.25	SW-501 INTAKE
N-12	19169.17	21479.42	845.25	SW-501 INTAKE
N-13	19198.79	21296.69	844.92	SW-501 INTAKE
N-14	19167.79	21296.93	844.92	SW-501 INTAKE
N-15	19204.00	21984.17	844.75	SW-501 INTAKE
N-16	19173.00	21984.41	844.75	SW-501 INTAKE

STORM SEWER PIPE TABLE (SOUTH 6TH STREET OUTLET)

PIPE	DIAMETER	MATERIAL	FROM	TO	LENGTH	SLOPE	PIPE ℄ IN	PIPE ℄ OUT
P-1N	24"	RCP	N-2	N-1	11.3 LF	1.25%	830.39	830.25
P-2N	21"	RCP	N-3	N-2	280.0 LF	0.65%	832.32	830.49
P-3N	21"	RCP	N-4	N-3	327.5 LF	1.23%	836.44	832.42
P-4N	21"	RCP	N-5	N-4	43.1 LF	0.80%	836.88	836.54
P-5N	15"	RCP	N-6	N-5	26.9 LF	1.00%	839.15	838.88
P-6N	15"	RCP	N-7	N-6	28.3 LF	1.50%	839.68	839.25
P-7N	15"	RCP	N-8	N-7	41.3 LF	1.50%	840.39	839.78
P-8N	18"	RCP	N-9	N-5	147.4 LF	0.70%	838.01	836.98
P-9N	15"	RCP	N-10	N-9	26.5 LF	1.00%	840.28	840.01
P-10N	15"	RCP	N-11	N-9	202.5 LF	0.50%	839.13	838.11
P-11N	15"	RCP	N-12	N-11	31.0 LF	1.00%	840.44	840.13
P-12N	15"	RCP	N-13	N-11	180.0 LF	0.50%	840.13	839.23
P-13N	15"	RCP	N-14	N-13	27.4 LF	1.00%	840.50	840.23
P-14N	15"	RCP	N-15	N-4	100.3 LF	1.00%	839.88	838.88
P-15N	15"	RCP	N-16	N-15	27.3 LF	1.00%	840.25	839.98

SANITARY SEWER STRUCTURE TABLE (SOUTH 6TH STREET)

STRUCTURE	NORTHING	EASTING	STRUCTURE TYPE
SS-1	19668.67	21885.58	SW-301 MANHOLE, 48" DIA.
SS-2	19346.43	21887.36	SW-301 MANHOLE, 48" DIA.
SS-3	19152.18	21882.50	SW-301 MANHOLE, 48" DIA.

STORM SEWER STRUCTURE TABLE (SOUTH 1ST STREET OUTLET)

STRUCTURE NO.	NORTHING	EASTING	TOP OF CURB OR RIM ELEV.	STRUCTURE TYPE
S-1	17977.24	20203.47	830.35	SW-401 MANHOLE, 72" DIA.
S-2	18013.73	20253.21	827.80	SW-401 MANHOLE, 72" DIA.
S-3	18054.01	20249.95	826.55	SW-502 INTAKE, 60" DIA.
S-4	18229.60	20246.73	830.40	SW-502 INTAKE, 60" DIA.
S-5	18369.16	20247.41	833.45	SW-402 MANHOLE, 6.5'X4.5'
S-6	18553.28	20246.81	834.40	SW-502 INTAKE, 60" DIA.
S-7	18877.75	20246.03	840.55	SW-502 INTAKE, 60" DIA.
S-8	19191.60	20245.70	842.23	SW-401 MANHOLE, 60" DIA.
S-9	19194.60	20649.21	844.30	SW-502 INTAKE, 48" DIA.
S-10	19163.60	20649.44	844.30	SW-501 INTAKE
S-11	19195.33	20796.75	844.54	SW-501 INTAKE
S-12	19164.33	20796.90	844.54	SW-501 INTAKE
S-13	19195.14	20946.77	844.15	SW-401 MANHOLE, 48" DIA.
S-14	19157.82	20947.39	844.50	SW-502 INTAKE, 48" DIA.
S-15	19203.46	20947.41	844.50	SW-502 INTAKE, 48" DIA.
S-16	19197.56	21134.20	844.78	SW-501 INTAKE
S-17	19166.56	21134.43	844.78	SW-501 INTAKE
S-18	19192.12	20146.71	842.45	SW-501 INTAKE
S-19	19161.12	20146.95	842.45	SW-501 INTAKE
S-20	19191.63	20046.71	842.48	SW-501 INTAKE
S-21	19160.63	20046.95	842.48	SW-501 INTAKE
S-22	19199.93	20244.94	842.25	SW-502 INTAKE, 48" DIA.
S-23	19200.18	20296.58	842.25	SW-502 INTAKE, 48" DIA.

STORM SEWER PIPE TABLE (SOUTH 1ST STREET OUTLET)

PIPE	DIAMETER	MATERIAL	FROM	TO	LENGTH	SLOPE	PIPE ℄ IN	PIPE ℄ OUT
P-1S	36"	RCP	S-2	S-1	58.5 LF	3.00%	818.99	817.23
P-2S	36"	RCP	S-3	S-2	36.9 LF	1.25%	819.55	819.09
P-3S	36"	RCP		S-3	28.6 LF	1.25%	820.00	819.65
P-4S	36"	RCP	S-4		144.2 LF	1.25%	821.81	820.00
P-5S	36"	RCP	S-5	S-4	136.1 LF	1.00%	823.87	822.51
P-6S	36"	RCP	S-6	S-5	179.2 LF	1.00%	825.76	823.97
P-7S	27"	RCP	S-7	S-6	321.3 LF	1.00%	830.98	827.76
P-8S	15"	RCP		S-7	38.4 LF	4.29%	837.15	835.50
P-9S	24"	RCP	S-8	S-7	311.7 LF	1.00%	834.20	831.08
P-10S	18"	RCP	S-9	S-8	400.7 LF	0.50%	836.60	834.60
P-11S	15"	RCP	S-10	S-9	26.9 LF	1.00%	838.00	837.73
P-12S	15"	RCP	S-11	S-9	144.9 LF	0.30%	837.13	836.70
P-13S	15"	RCP	S-12	S-11	27.4 LF	1.00%	840.00	839.73
P-14S	15"	RCP	S-13	S-11	147.7 LF	0.30%	837.67	837.23
P-15S	15"	RCP	S-14	S-13	33.8 LF	1.00%	840.50	840.16
P-16S	15"	RCP	S-15	S-13	4.8 LF	1.00%	839.75	839.70
P-17S	15"	RCP	S-16	S-13	185.0 LF	0.30%	838.32	837.77
P-18S	15"	RCP	S-17	S-16	27.4 LF	1.00%	840.59	840.32
P-19S	15"	RCP	S-18	S-8	95.7 LF	2.35%	836.55	834.30
P-20S	15"	RCP	S-19	S-18	27.4 LF	1.00%	838.00	837.73
P-21S	15"	RCP	S-20	S-18	97.3 LF	0.75%	837.78	837.05
P-22S	15"	RCP	S-21	S-20	27.2 LF	1.00%	838.15	837.88
P-23S	15"	RCP	S-22	S-8	4.8 LF	3.00%	836.34	836.20
P-24S	15"	RCP	S-23	S-22	47.2 LF	3.00%	837.86	836.44

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
PROJECT TABULATIONS

SCALE: NO SCALE

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: C.02

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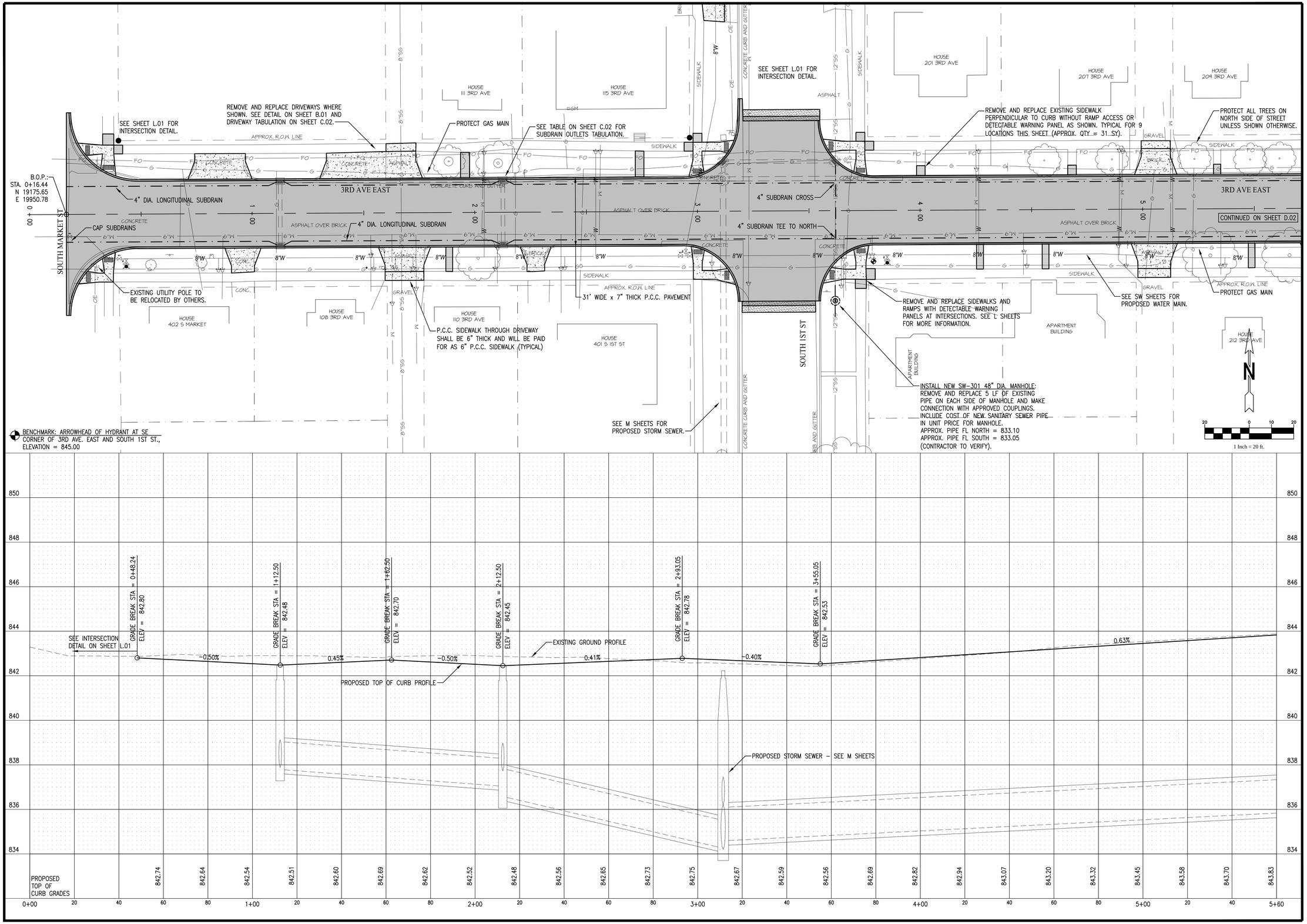

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SHEET TITLE
PLAN AND PROFILE
B.O.P. TO STA. 5+60

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

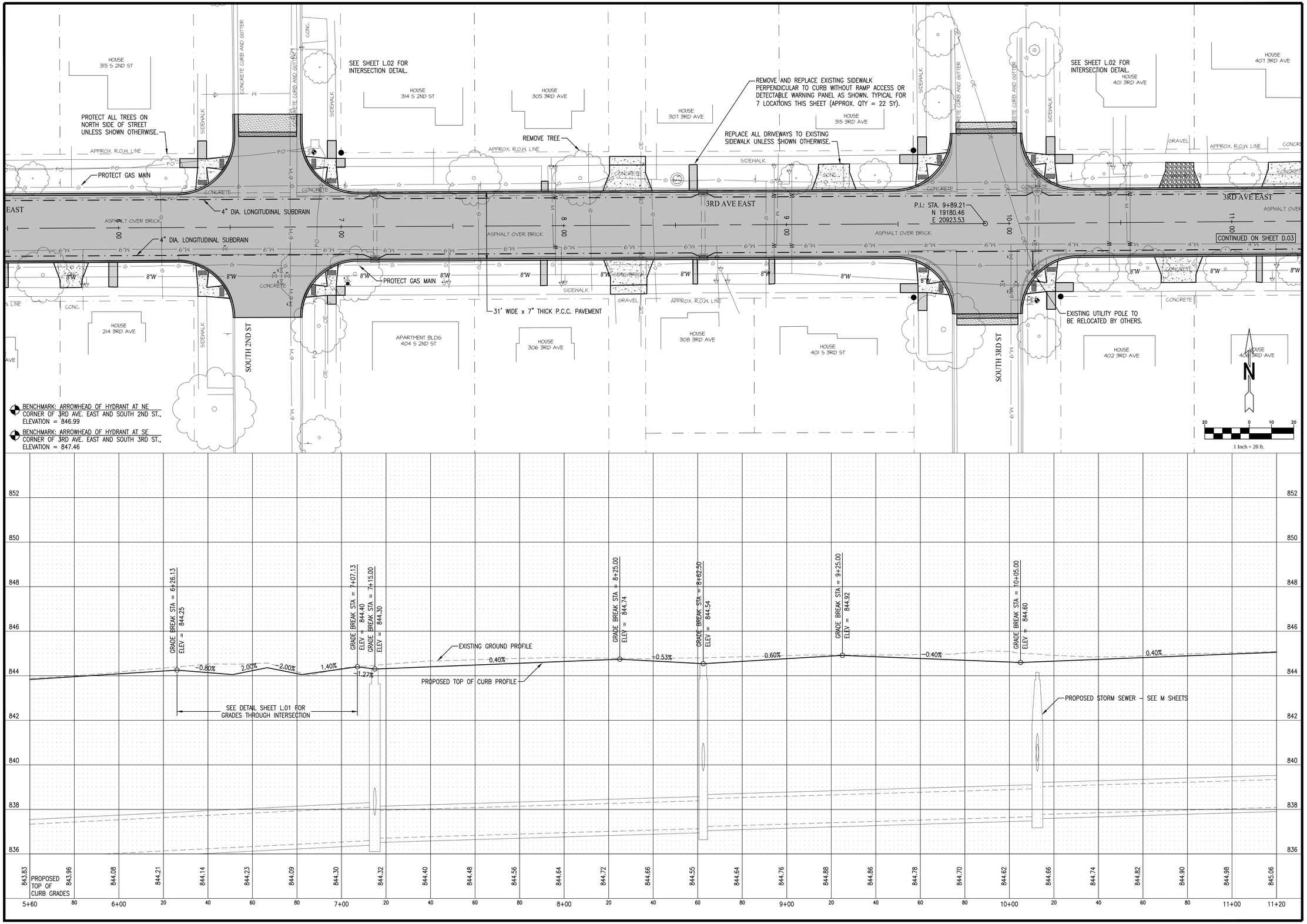
APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
D.01



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SHEET TITLE
PLAN AND PROFILE STA. 5+60 TO 11+20

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
D.02

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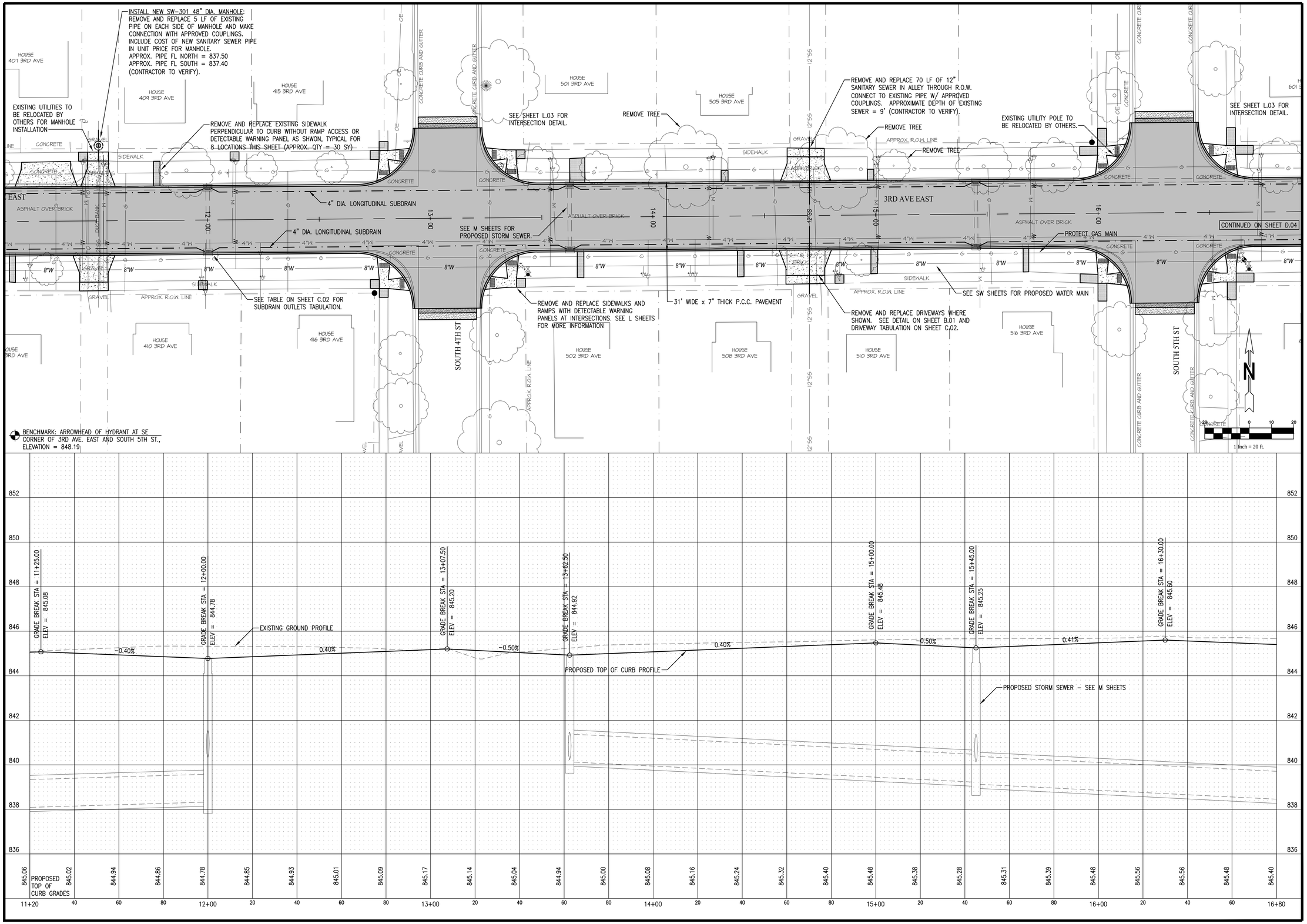

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SHEET TITLE
PLAN AND PROFILE STA. 11+20 TO 16+80

SCALE:
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FIELD BOOK:
70-NN-4

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APPROVED:
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REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
D.03

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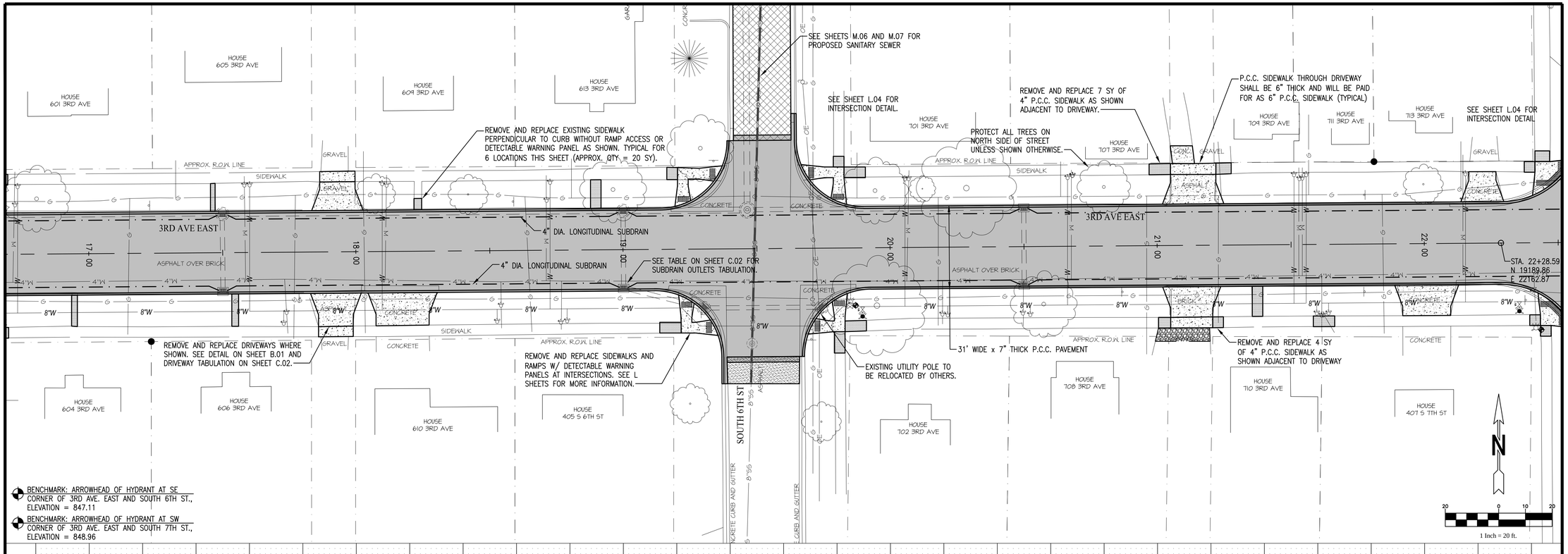

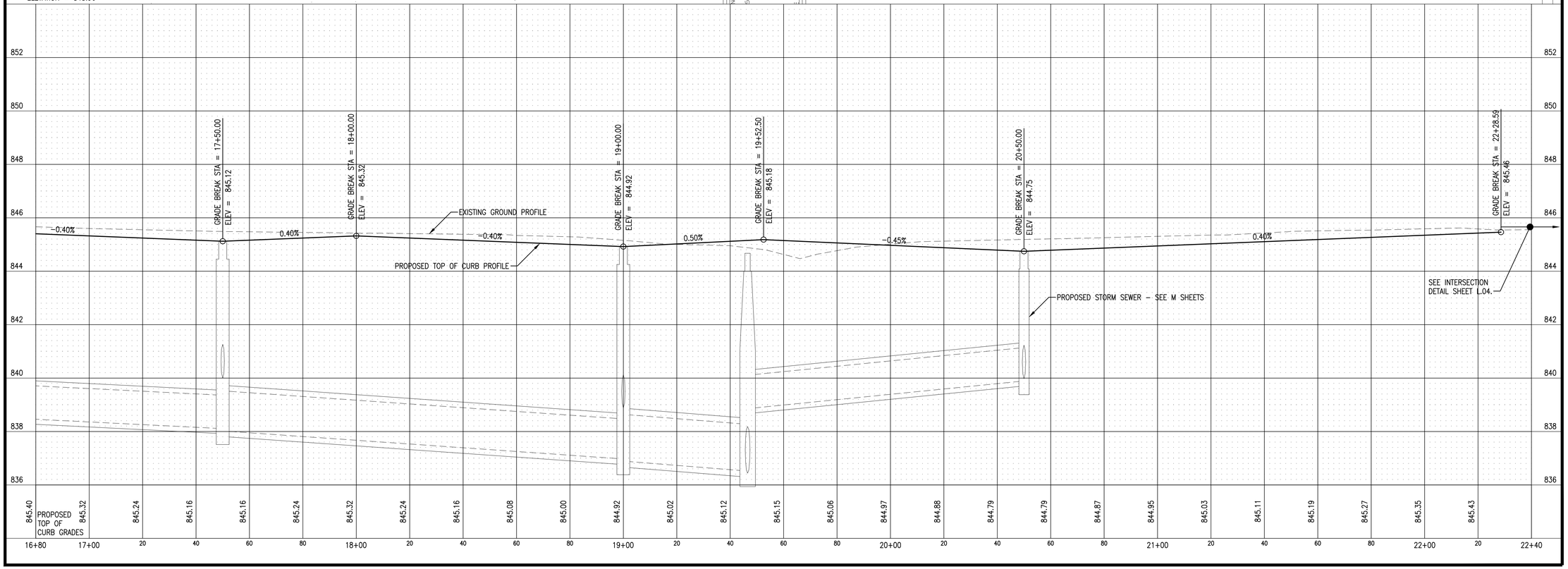

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3RD AVENUE EAST RECONSTRUCTION PROJECT OSKALOOSA, IOWA

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SHEET TITLE
PLAN AND PROFILE STA. 16+80 TO E.O.P.

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
D.04

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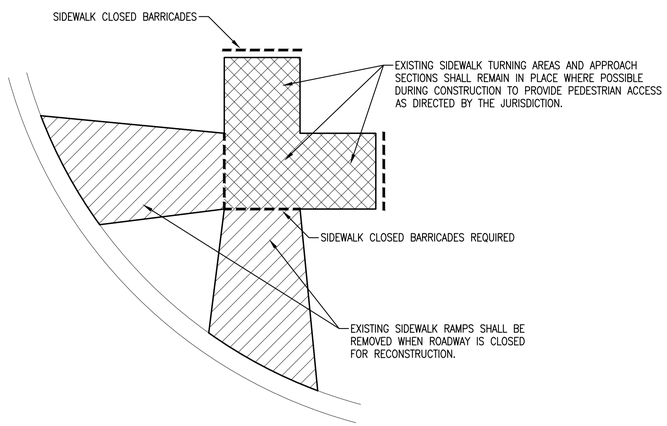
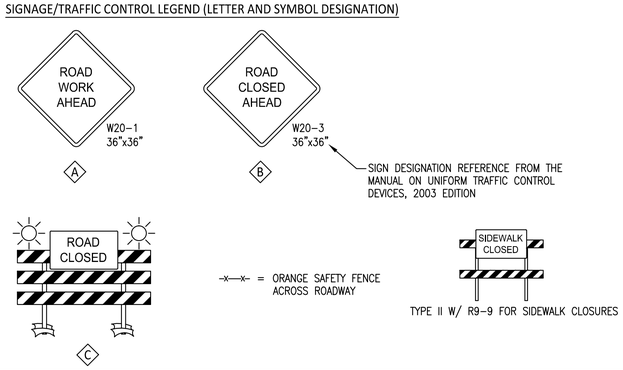
TRAFFIC CONTROL NOTES

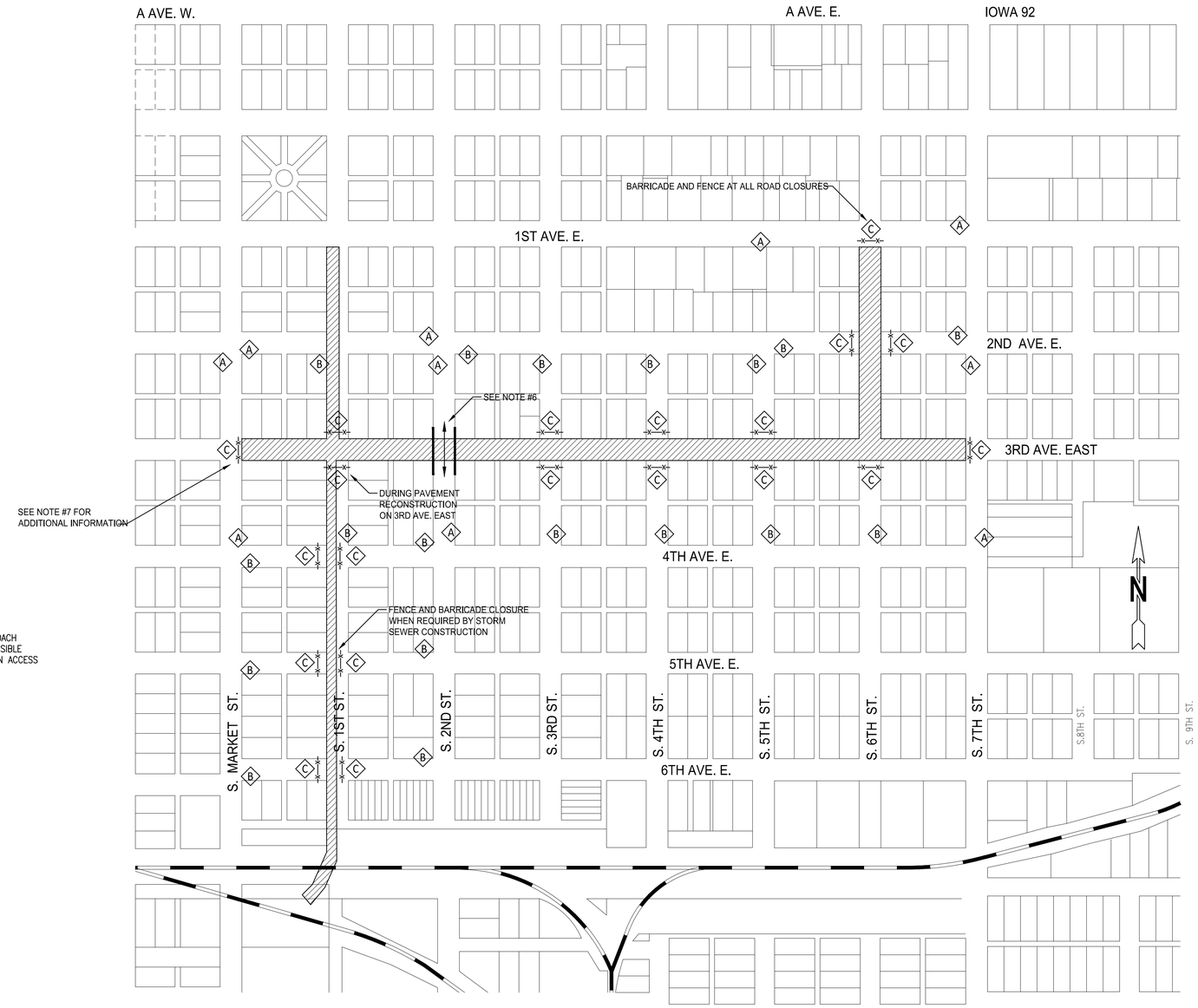
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR.
2. WHERE POSSIBLE, ALL POST MOUNTED SIGNS SHALL BE PLACED AT LEAST 2 FEET BEYOND THE CURB. DO NOT BLOCK SIDEWALKS WITH SIGNS.
3. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE JURISDICTION.
4. PROPOSED CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE JURISDICTION BEFORE CHANGES ARE MADE.
5. 3RD AVENUE EAST FROM STATION 1+75 TO SOUTH 7TH STREET WILL BE CLOSED TO THRU TRAFFIC DURING THE CONSTRUCTION PERIOD. ACCESS FOR LOCAL TRAFFIC WILL BE MAINTAINED DURING THE STORM SEWER AND WATER MAIN CONSTRUCTION PERIODS. DURING THE STORM SEWER AND WATER MAIN CONSTRUCTION OPERATION, INDIVIDUAL BLOCKS IN WHICH CONSTRUCTION IS OCCURRING WILL BE CLOSED TO LOCAL TRAFFIC. ACCESS TO TRUBANK PARKING LOT AND DRIVE THROUGH BANKING STATION SHALL BE MAINTAINED AS LONG AS POSSIBLE DURING CONSTRUCTION.
6. FOLLOWING COMPLETION OF STORM SEWER AND WATER MAIN, 3RD AVENUE EAST SHALL BE COMPLETELY CLOSED TO THRU AND LOCAL TRAFFIC FROM SOUTH MARKET STREET TO SOUTH 7TH STREET WITH THE EXCEPTION OF THE INTERSECTION AT SOUTH 2ND STREET. TRAFFIC SHALL BE MAINTAINED ON SOUTH 2ND STREET IN THE NORTH-SOUTH DIRECTION UNTIL THE INTERSECTION OF 3RD AVENUE EAST AND SOUTH 3RD STREET IS COMPLETED AND OPENED TO TRAFFIC.
7. TRAFFIC CONTROL FOR WORK IN THE RIGHT-OF-WAY OF SOUTH MARKET STREET (HIGHWAY 63) SHALL BE IN ACCORDANCE WITH IOWA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR TRAFFIC CONTROL. TRAFFIC CONTROL SIGNING IN ACCORDANCE WITH IOWA DOT STANDARD ROAD PLAN TC-202 WILL BE REQUIRED FOR WORK IN SOUTH MARKET STREET ROADWAY. IN ADDITION TO SAFETY FENCING ALONG SOUTH MARKET STREET; REFLECTIVE CHANNELIZERS SHALL BE INSTALLED IN ADDITION TO AND ALONG THE SAFETY FENCE.
8. NO ROAD CLOSURES ARE ANTICIPATED FOR WATER MAIN WORK ON SOUTH 1ST STREET. CONTRACTOR SHALL PROVIDE PROPER ADVANCED WARNING SIGNING AND FENCING OF EXCAVATIONS FOR ALL WORK IN ROADWAY.
9. MAINTAIN CONTINUOUS ACCESS TO THE POST OFFICE FROM SOUTH 1ST STREET. ONLY ONE DRIVEWAY MAY BE CLOSED AT A TIME. AT CONTRACTOR'S OPTION, TEMPORARY GRANULAR SURFACING MAY BE PLACED AFTER INSTALLATION OF STORM SEWER AND PRIOR TO CONCRETE DRIVEWAY REPLACEMENT TO KEEP ONE DRIVE OPEN AT ALL TIMES. INCLUDE COST OF TEMPORARY GRANULAR SURFACING IN UNIT PRICE FOR TRAFFIC CONTROL.
10. PROVIDE TYPE II BARRICADE WITH R9-9 (SIDEWALK CLOSED) SIGN FOR ALL SIDEWALK CLOSURES.
11. MAINTAIN THROUGH TRAFFIC ON SOUTH 1ST STREET FROM 3RD AVENUE EAST TO 6TH AVENUE EAST DURING STORM CONSTRUTION. INDIVIDUAL BLOCKS MAY BE CLOSED WHEN CONSTRUCTION IS OCCURRING IN THAT BLOCK.



TYPICAL SIDEWALK RAMP REMOVAL AND CLOSURE SCHEDULE DETAIL

SIGNAGE/TRAFFIC CONTROL LEGEND (LETTER AND SYMBOL DESIGNATION)





PROJECT LOCATION MAP
APPROX. SCALE: 1" =200'

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
TRAFFIC CONTROL

SCALE: AS NOTED
FIELD BOOK: 70-NN-4
DRAWN BY: KJR
APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: J.01

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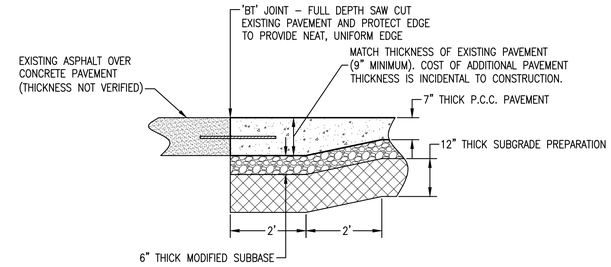
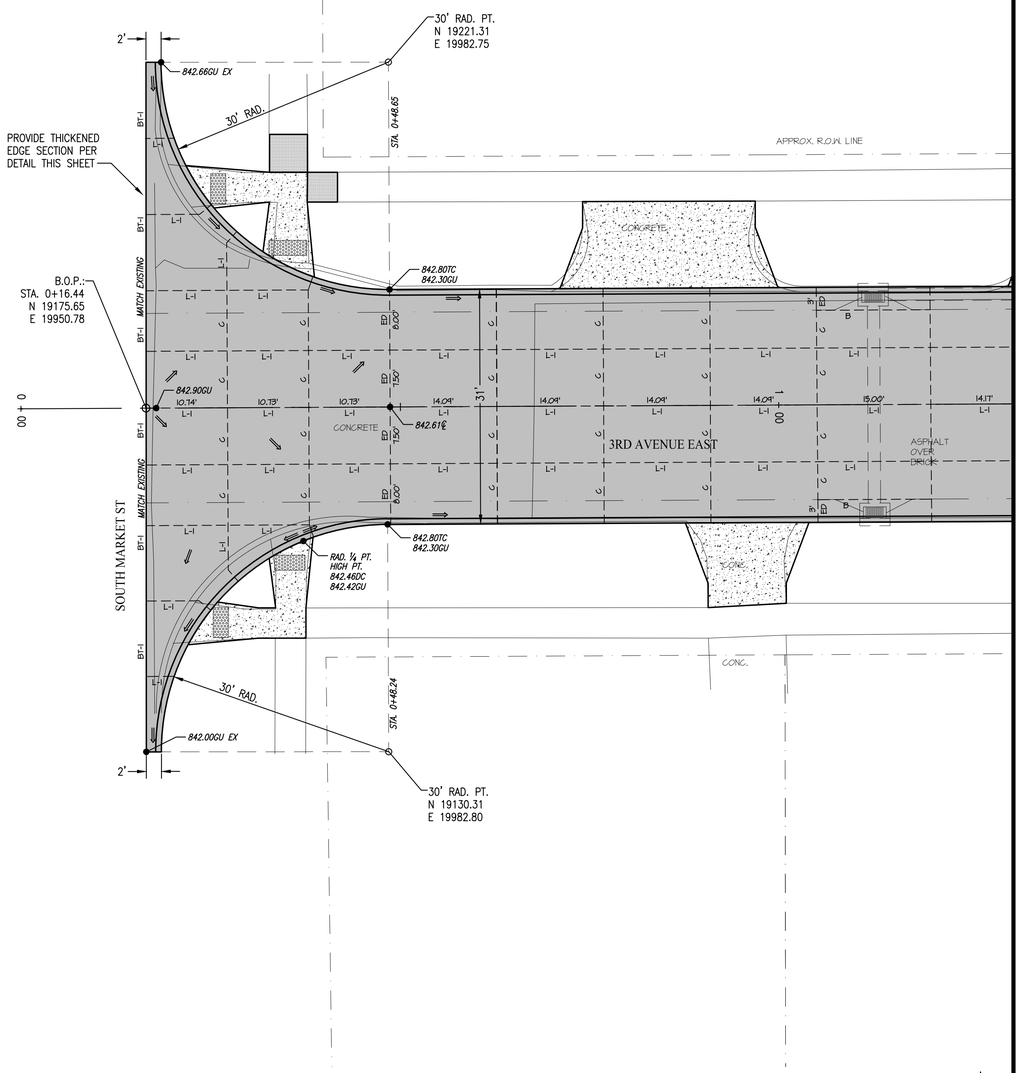
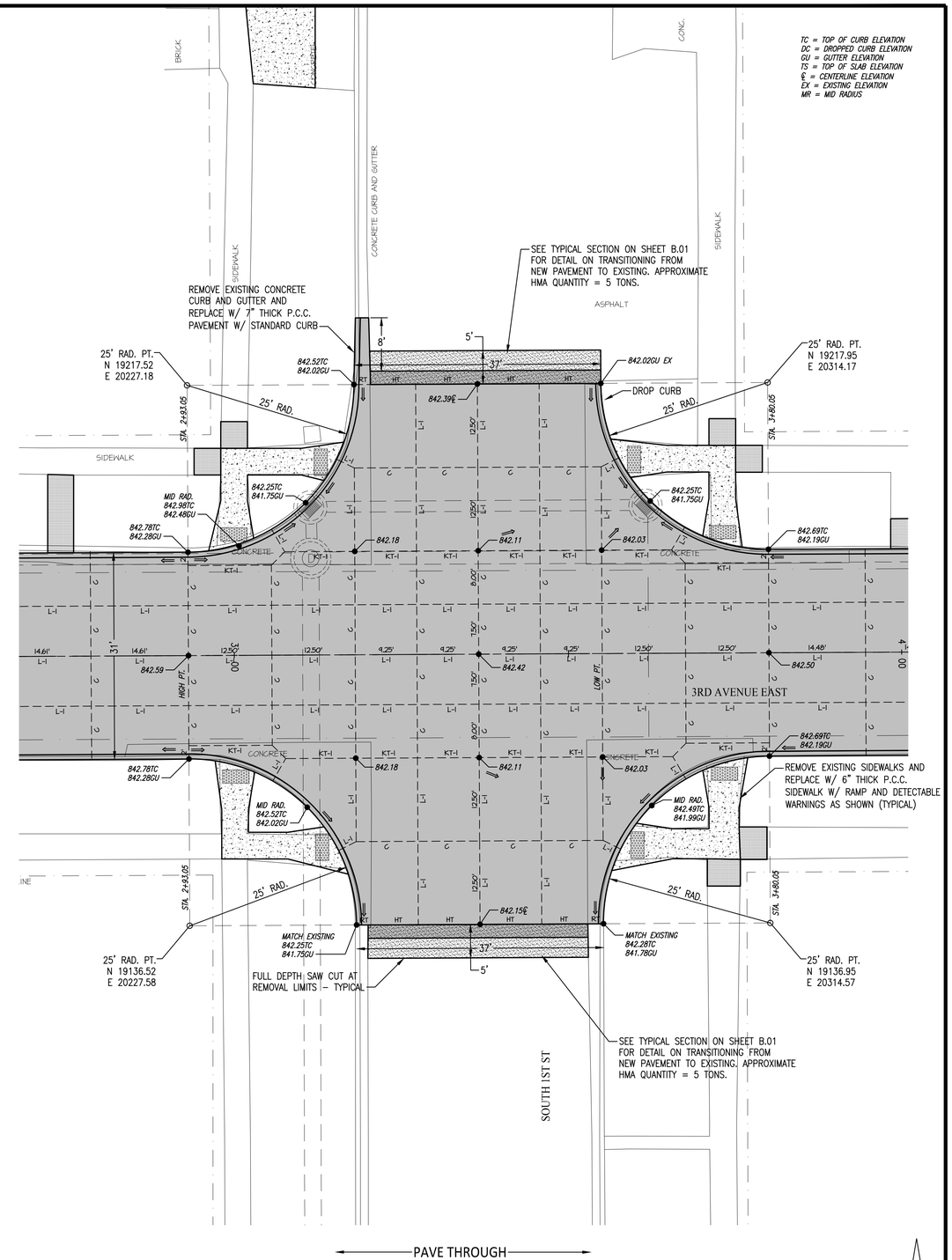


THICKENED EDGE SECTION DETAIL
NO SCALE



3RD AVENUE EAST AND SOUTH MARKET STREET



3RD AVENUE EAST AND SOUTH 1ST STREET

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SHEET TITLE
INTERSECTION DETAILS

SCALE: 1" = 10'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

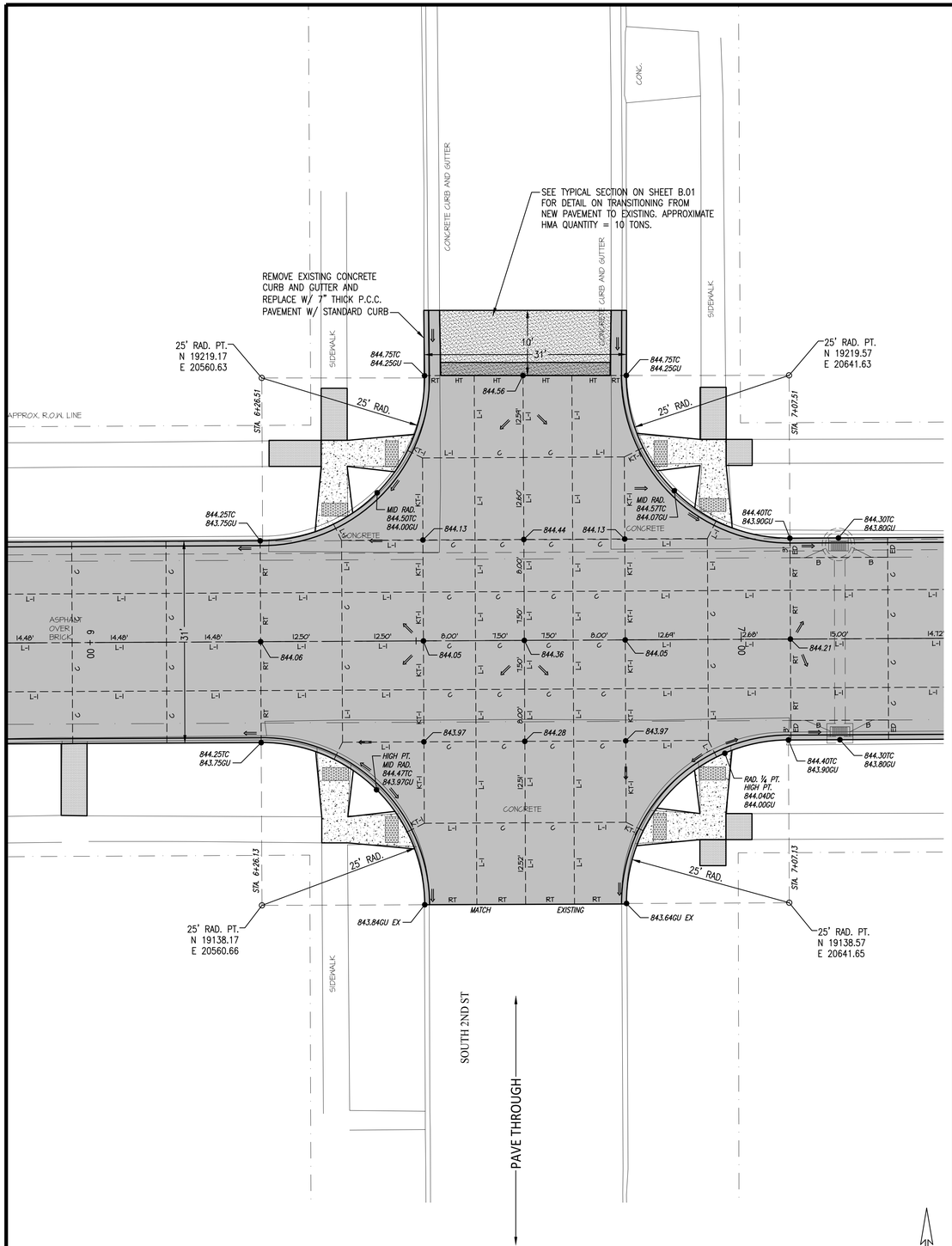
APPROVED: RAN

REVISIONS:

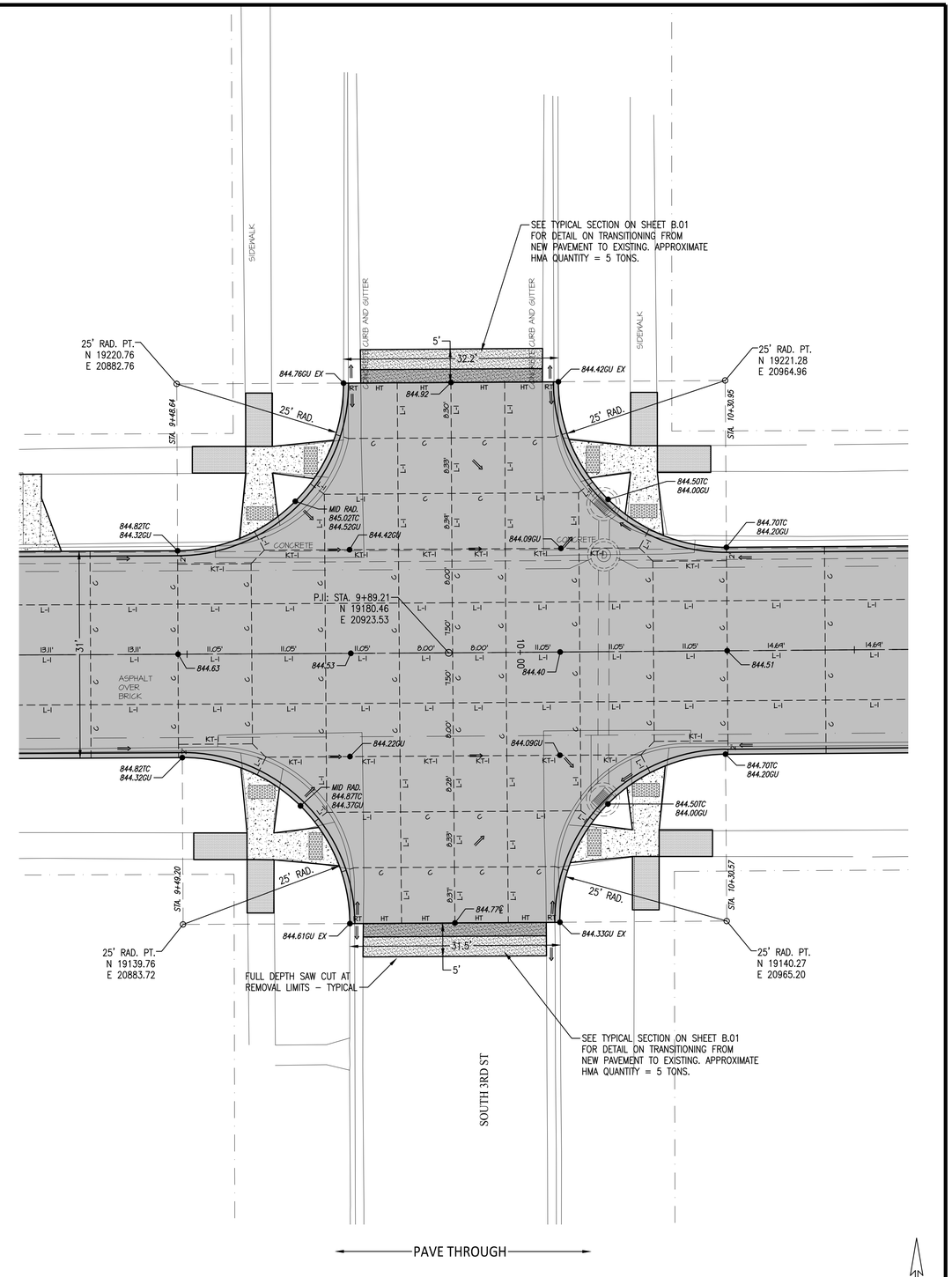
DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: L.01



3RD AVENUE EAST AND SOUTH 2ND STREET



3RD AVENUE EAST AND SOUTH 3RD STREET

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SHEET TITLE
INTERSECTION DETAILS

SCALE: 1" = 10'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

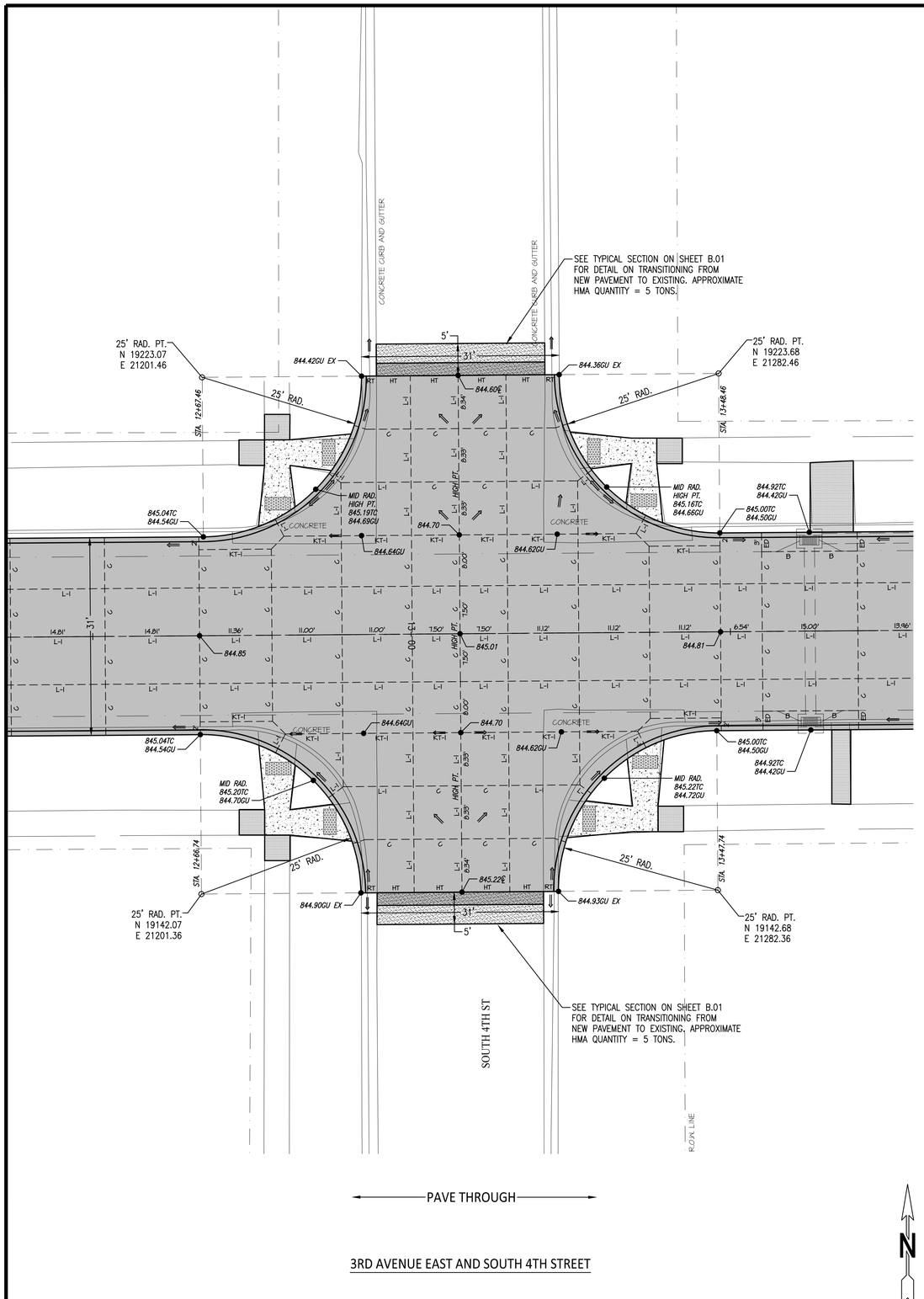
APPROVED: RAN

REVISIONS:

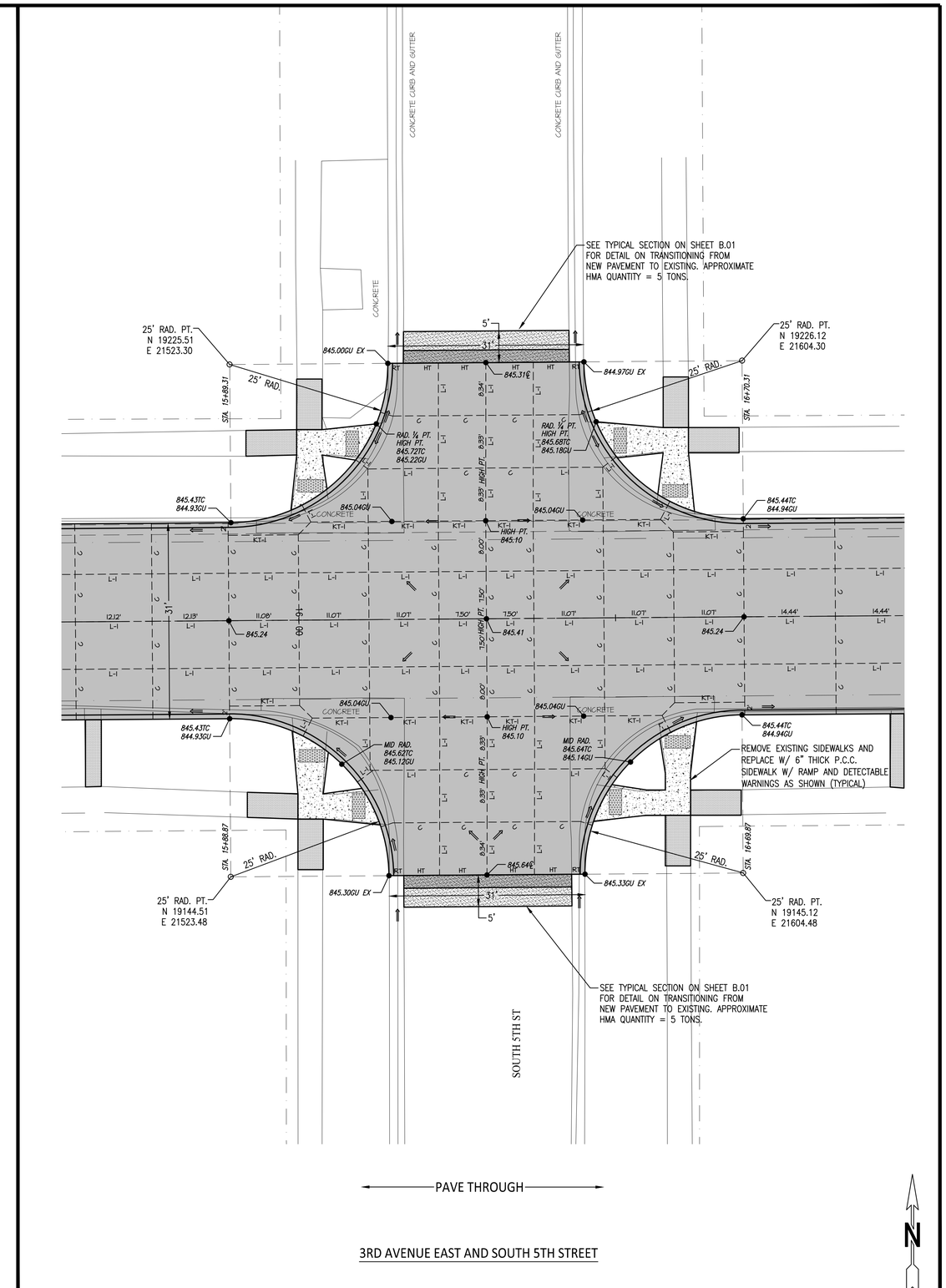
DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: L.02



3RD AVENUE EAST AND SOUTH 4TH STREET



3RD AVENUE EAST AND SOUTH 5TH STREET

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SHEET TITLE
INTERSECTION DETAILS

SCALE: 1" = 10'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

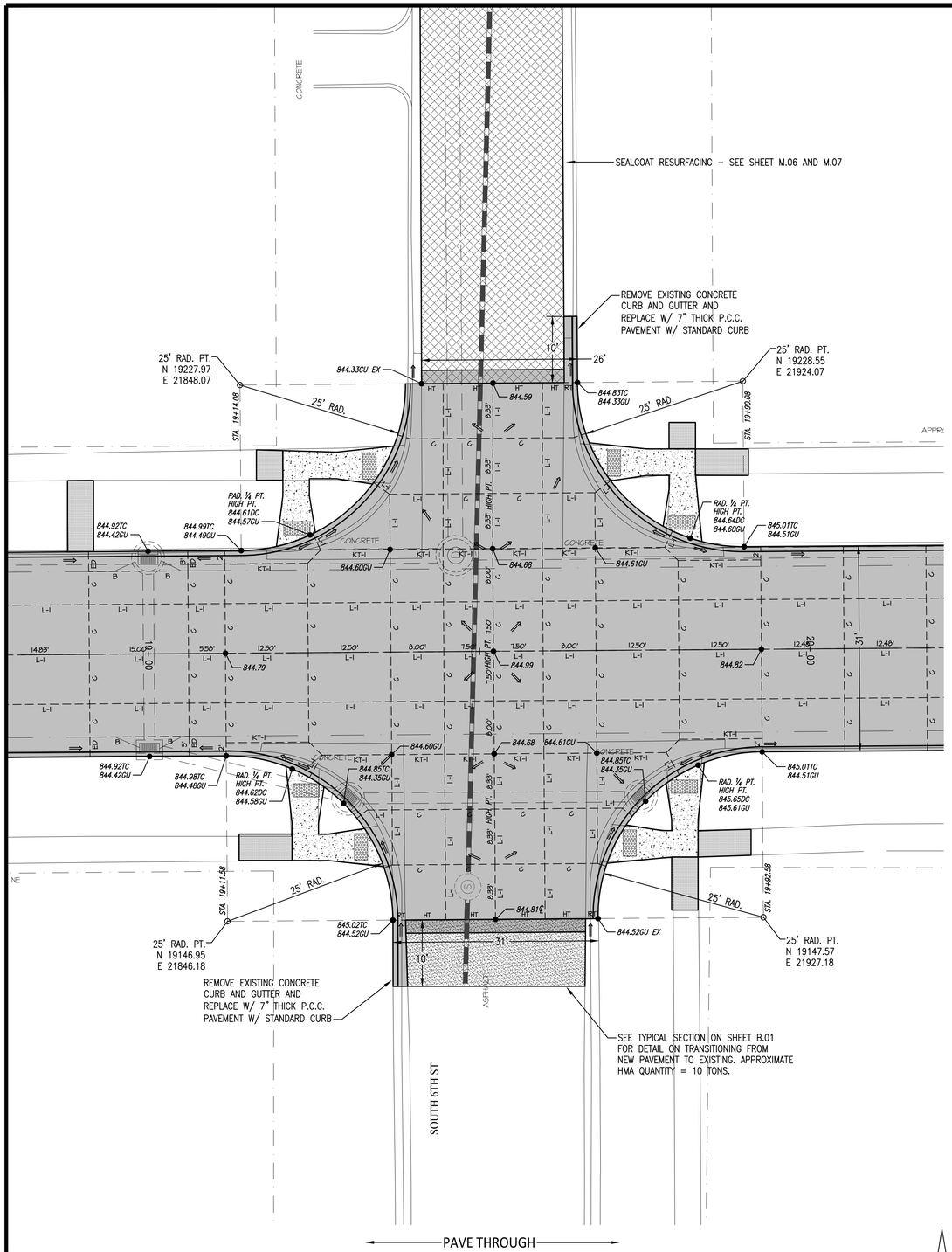
APPROVED: RAN

REVISIONS:

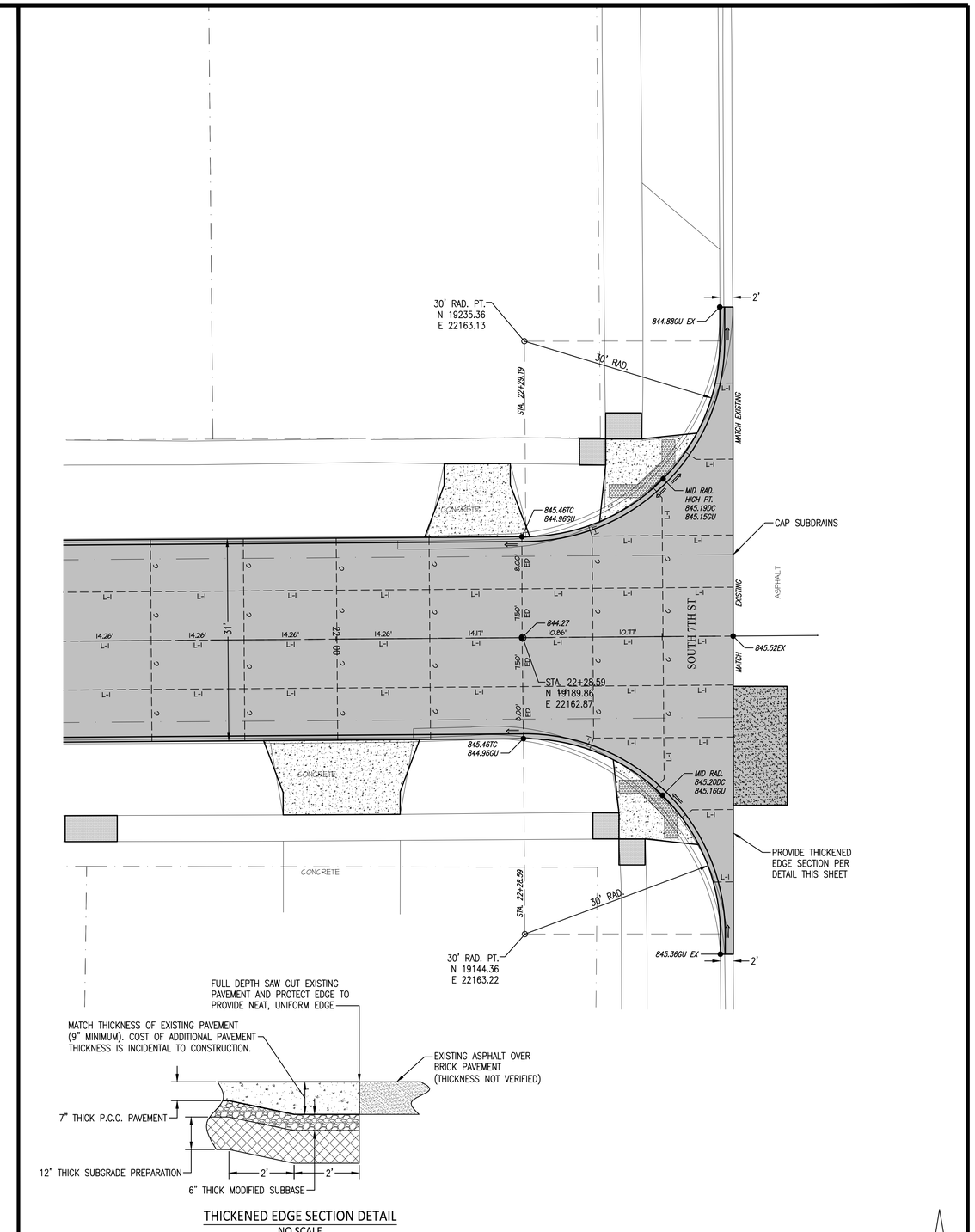
DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: L.03



3RD AVENUE EAST AND SOUTH 6TH STREET



THICKENED EDGE SECTION DETAIL
NO SCALE

3RD AVENUE EAST AND SOUTH 7TH STREET

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SHEET TITLE
INTERSECTION DETAILS

SCALE: 1" = 10'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: L.04

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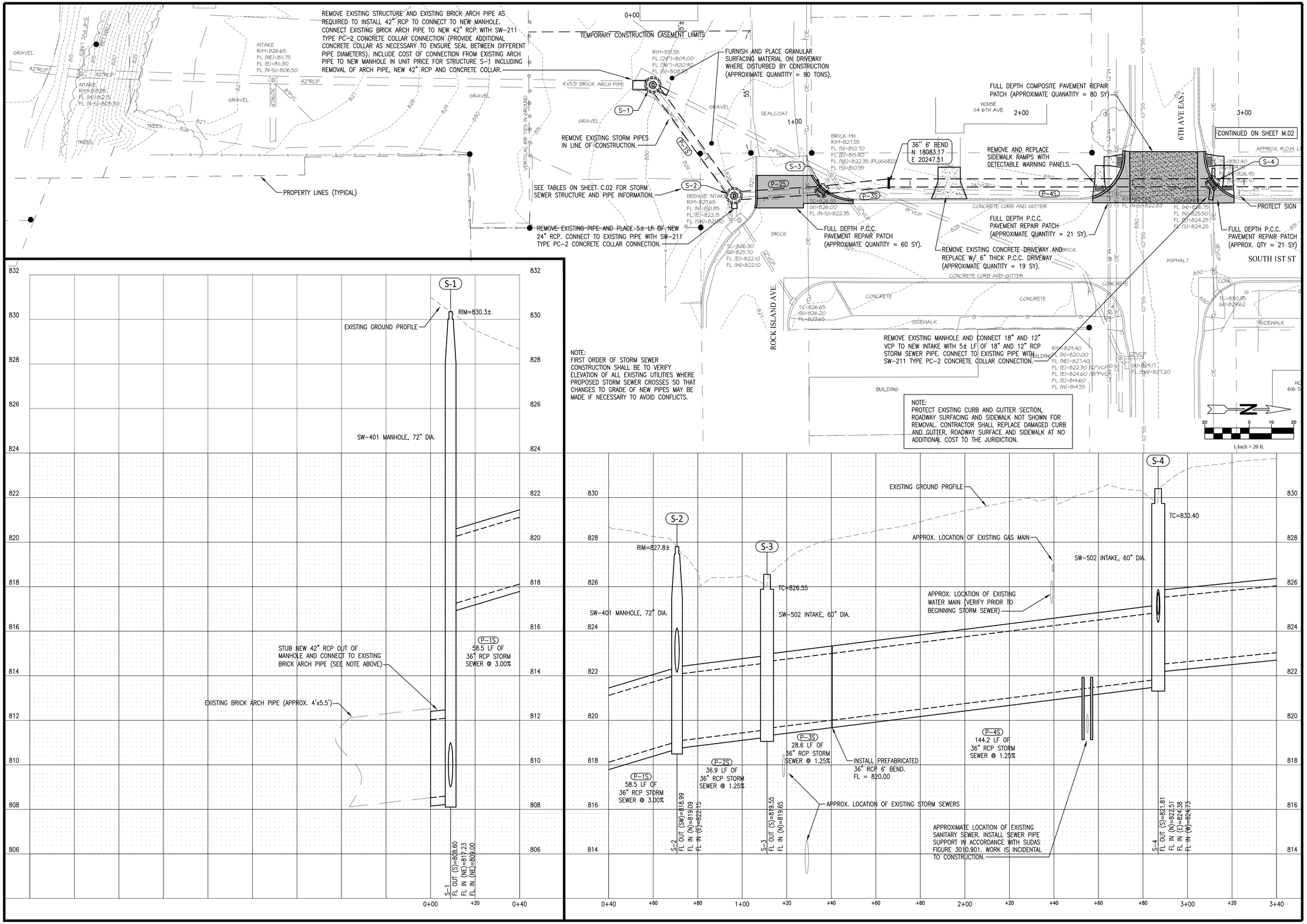

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SHEET TITLE
SOUTH 1ST STREET STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.01

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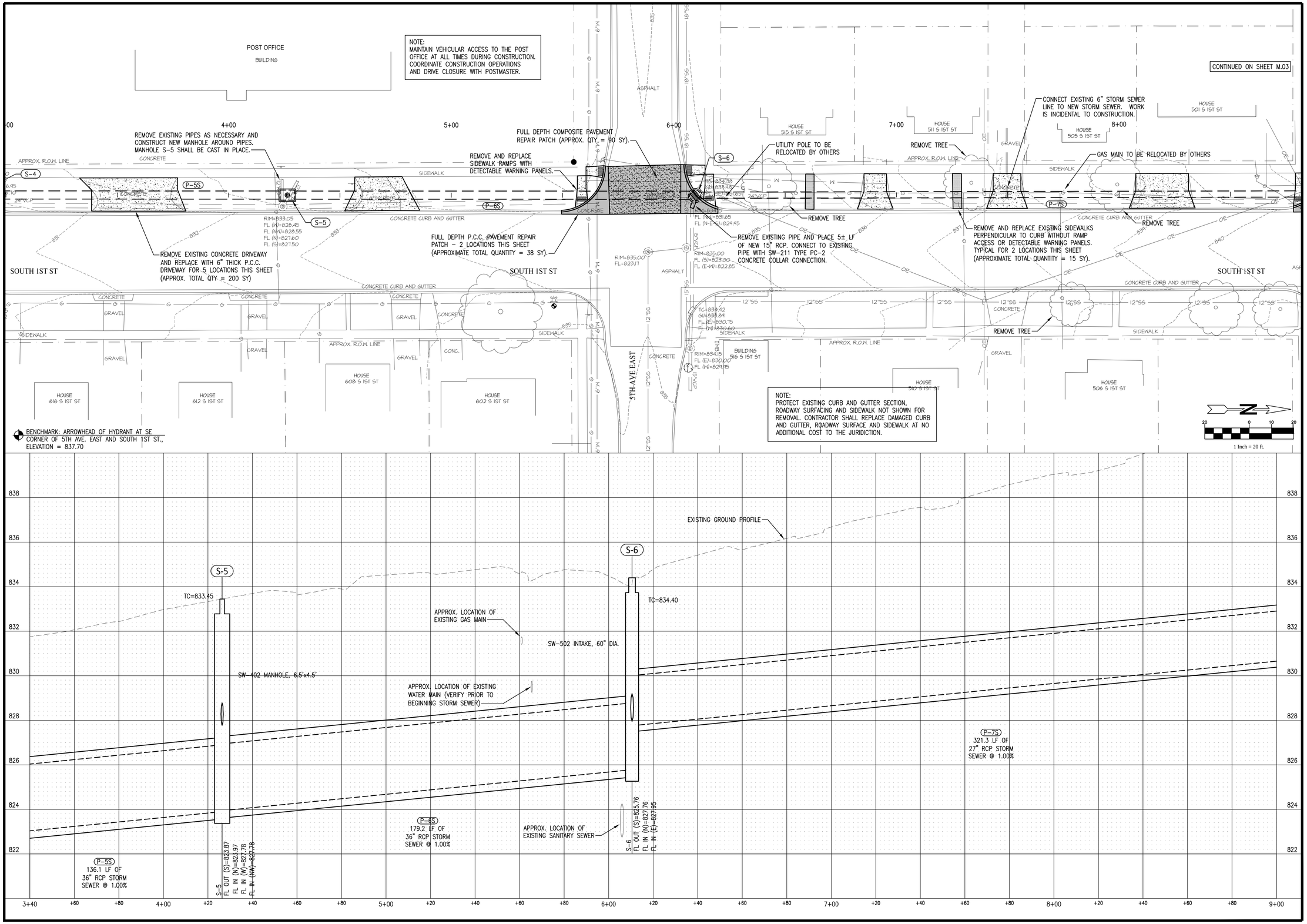

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SHEET TITLE
SOUTH 1ST STREET STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.02

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NOTE:
PROTECT EXISTING CURB AND GUTTER SECTION, ROADWAY SURFACING AND SIDEWALK NOT SHOWN FOR REMOVAL. CONTRACTOR SHALL REPLACE DAMAGED CURB AND GUTTER, ROADWAY SURFACE AND SIDEWALK AT NO ADDITIONAL COST TO THE JURIDICTION.

SUPPORT UTILITY POLE AS NECESSARY – COORDINATE W/ UTILITY COMPANY.

PROPOSED 8" WATER MAIN (SEE SW SHEETS)

REMOVE AND REPLACE SIDEWALK RAMPS WITH DETECTABLE WARNING PANELS.

REMOVE TREE

REMOVE AND REPLACE EXISTING SIDEWALK PERPENDICULAR TO CURB WITHOUT RAMP ACCESS OR DETECTABLE WARNING PANEL (APPROXIMATE QUANTITY = 4 SY).

GAS MAIN TO BE RELOCATED BY OTHERS.

REMOVE STUMP AND BRUSH

FULL DEPTH P.C.C. PAVEMENT REPAIR PATCH – 2 LOCATIONS THIS SHEET (APPROXIMATE TOTAL QUANTITY = 35 SY).

UTILITY POLE TO BE RELOCATED BY OTHERS

FULL DEPTH COMPOSITE PAVEMENT REPAIR PATCH – TYPICAL FOR 2 LOCATIONS THIS SHEET (APPROXIMATE QUANTITY = 135 SY).

REMOVE TREES

REMOVE EXISTING CONCRETE DRIVEWAY AND REPLACE WITH 6" THICK P.C.C. DRIVEWAY (APPROXIMATE QUANTITY = 25 SY).

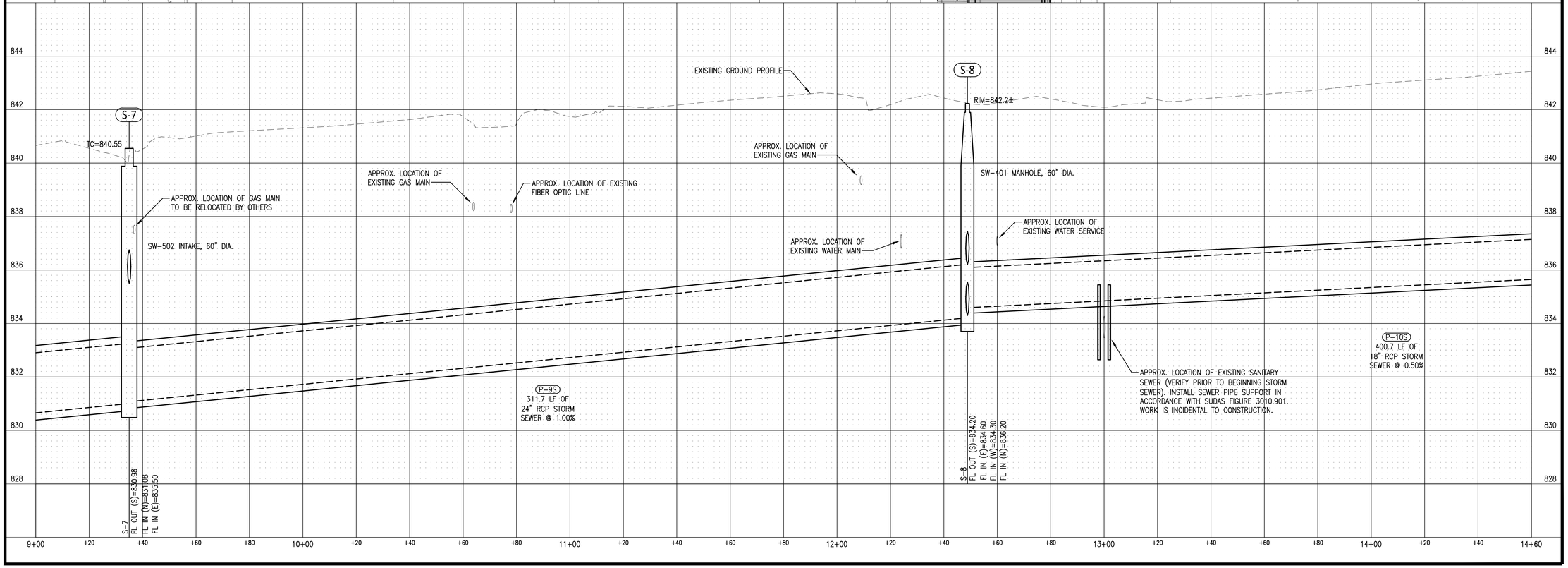
EXISTING GAS MAIN TO BE RELOCATED BY OTHERS

REMOVE EXISTING PIPE AND PLACE NEW 15" RCP. CONNECT TO EXISTING PIPE WITH SW-211 TYPE PC-2 CONCRETE COLLAR CONNECTION.

CONTINUED ON SHEET M.05

CONTINUED ON SHEET M.04

1 Inch = 20 ft.



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3RD AVENUE EAST RECONSTRUCTION PROJECT OSKALOOSA, IOWA

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SHEET TITLE
SOUTH 1ST STREET STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

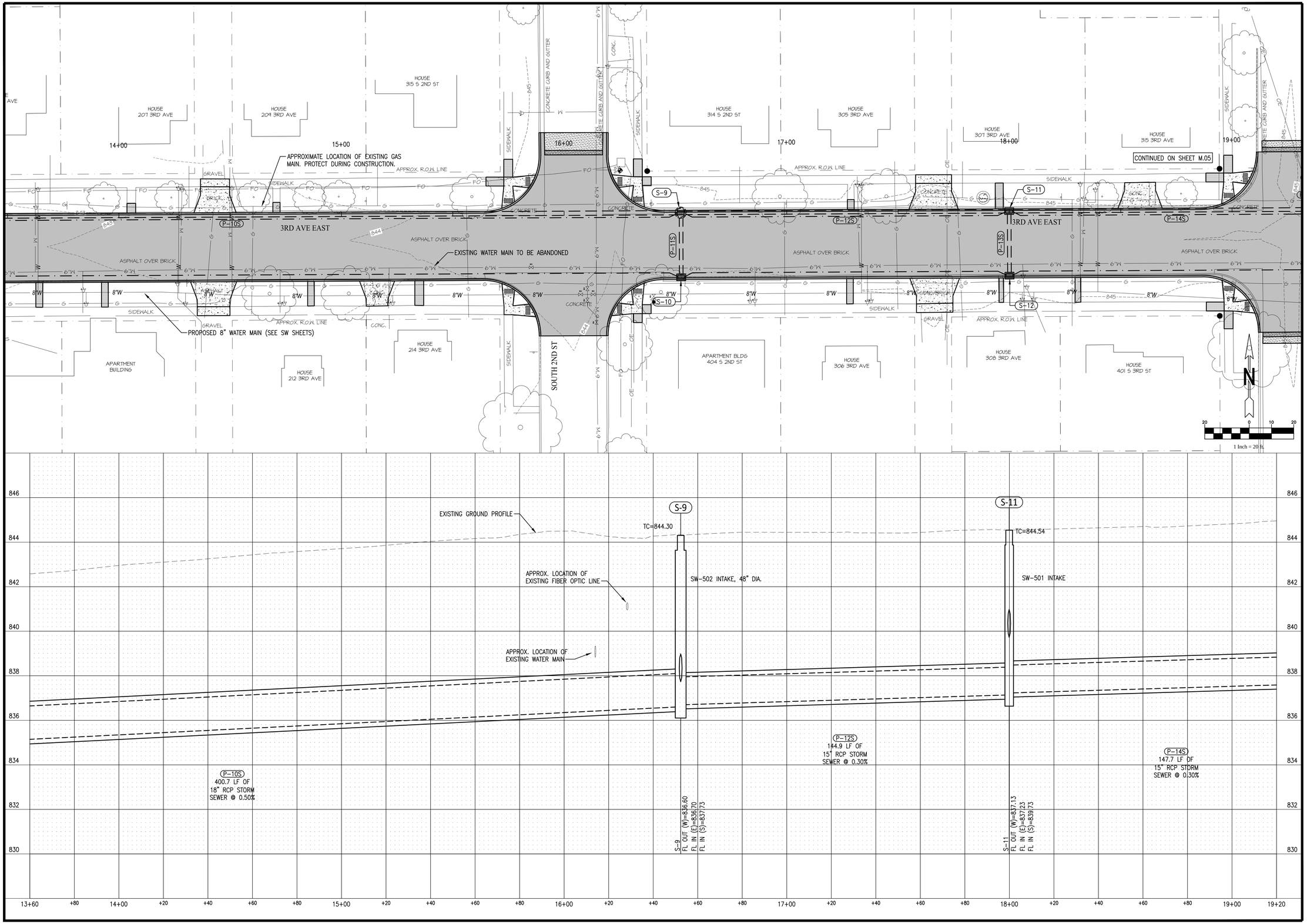
APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.03



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SHEET TITLE
3RD AVENUE EAST STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.04

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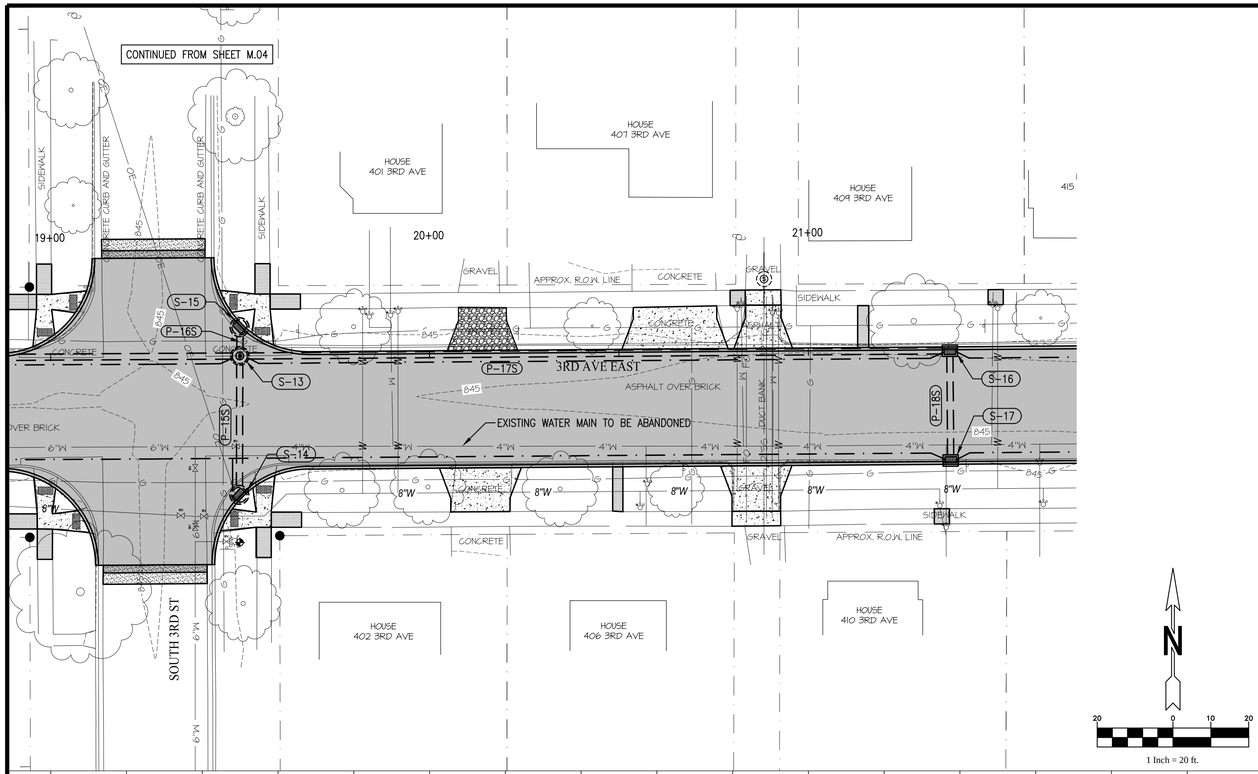

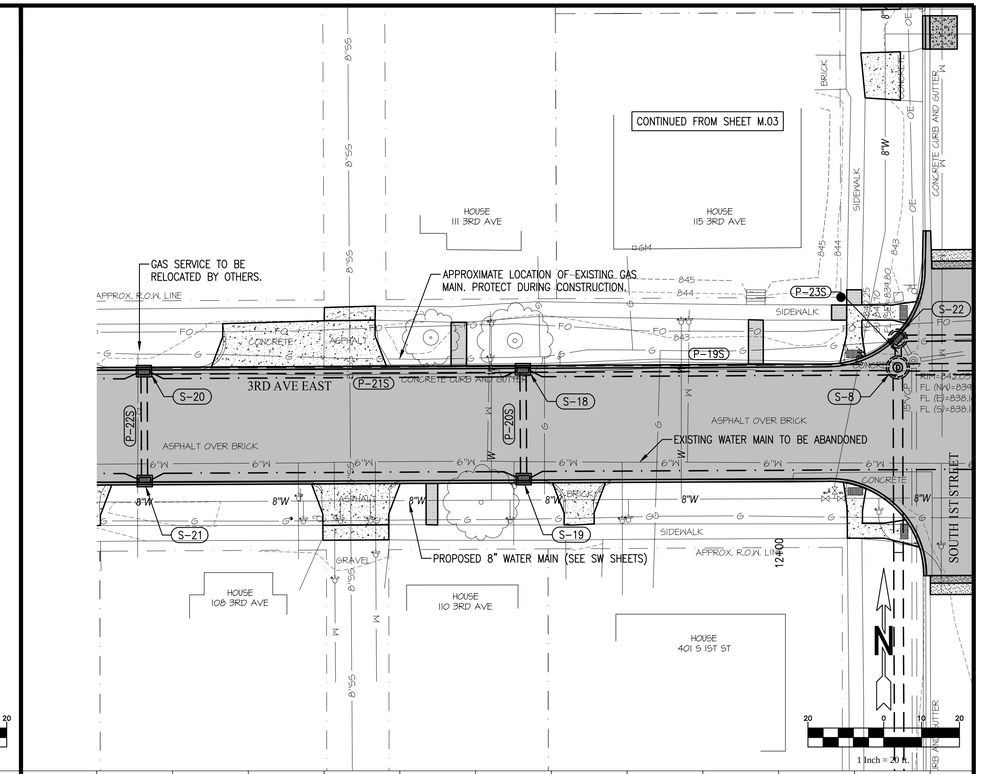

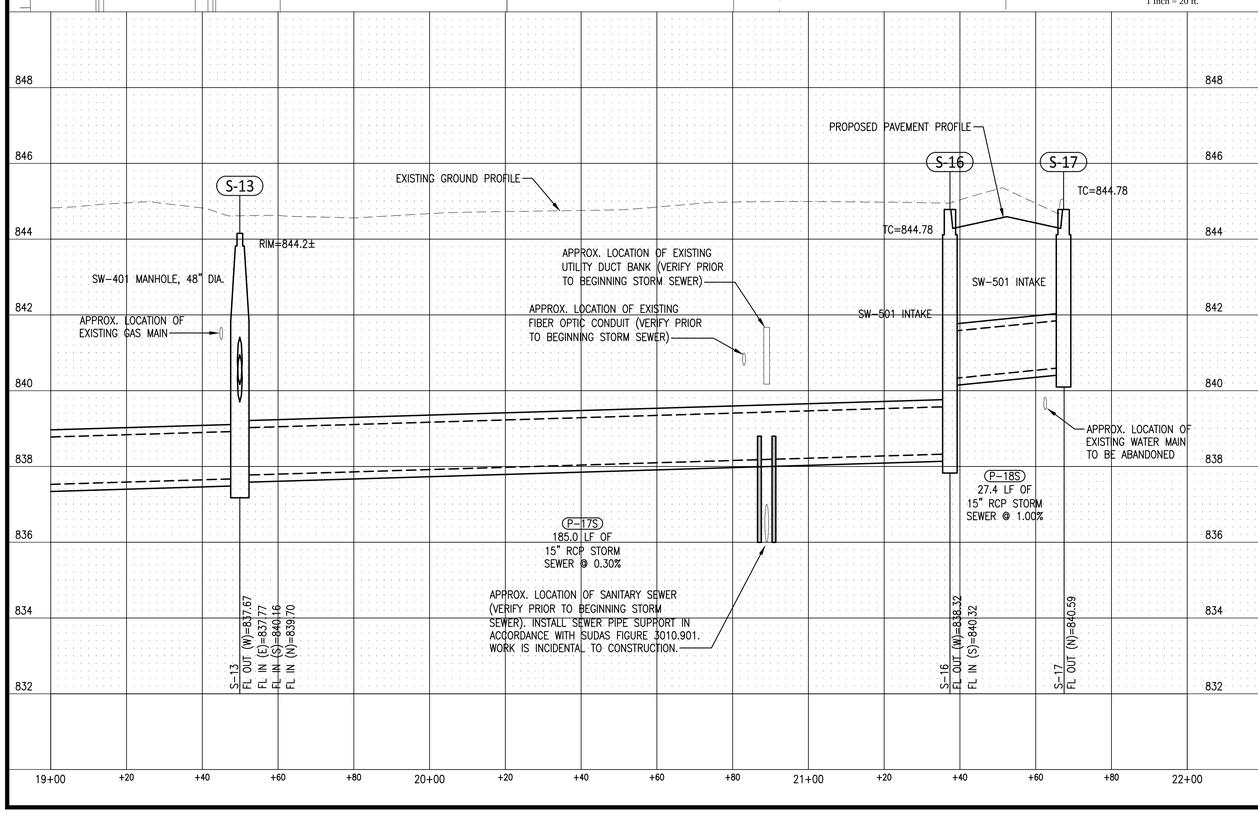

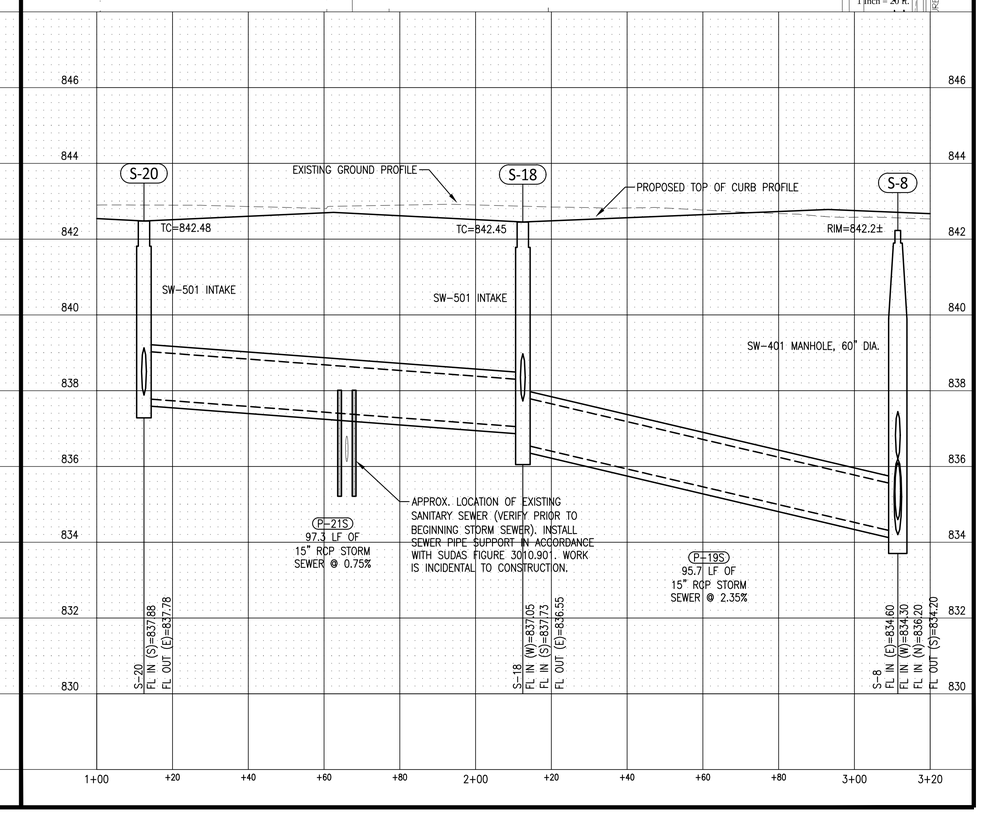

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SHEET TITLE
3RD AVENUE EAST STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.05

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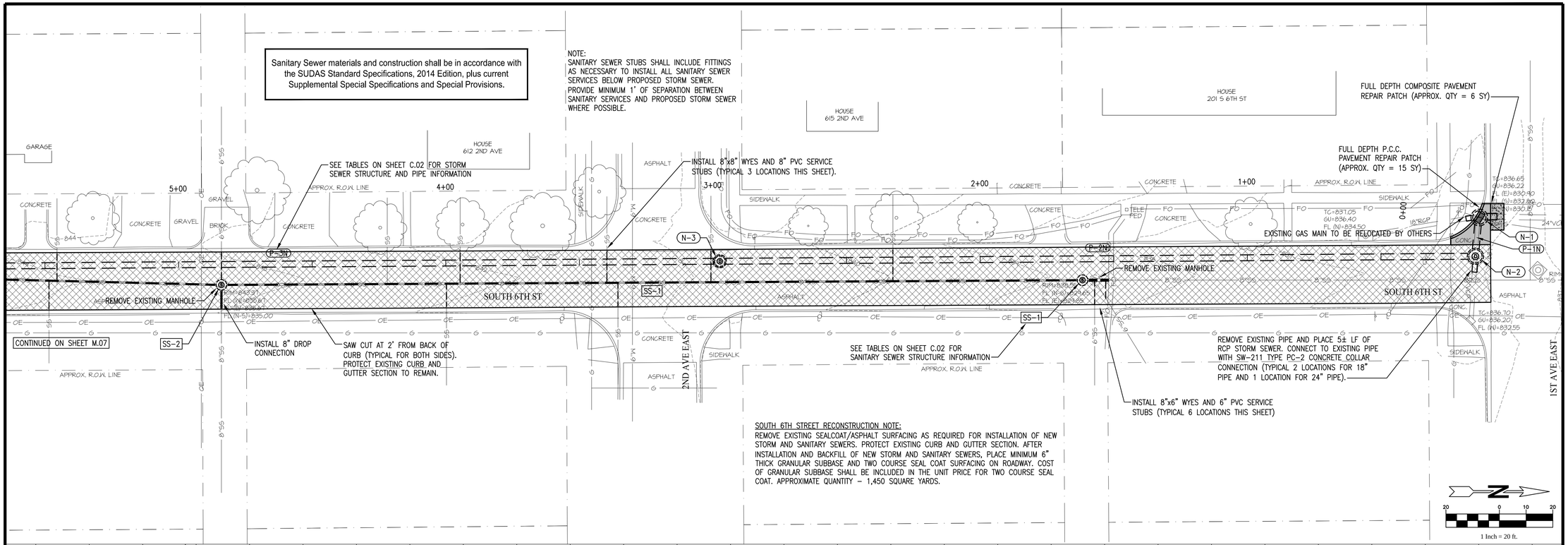
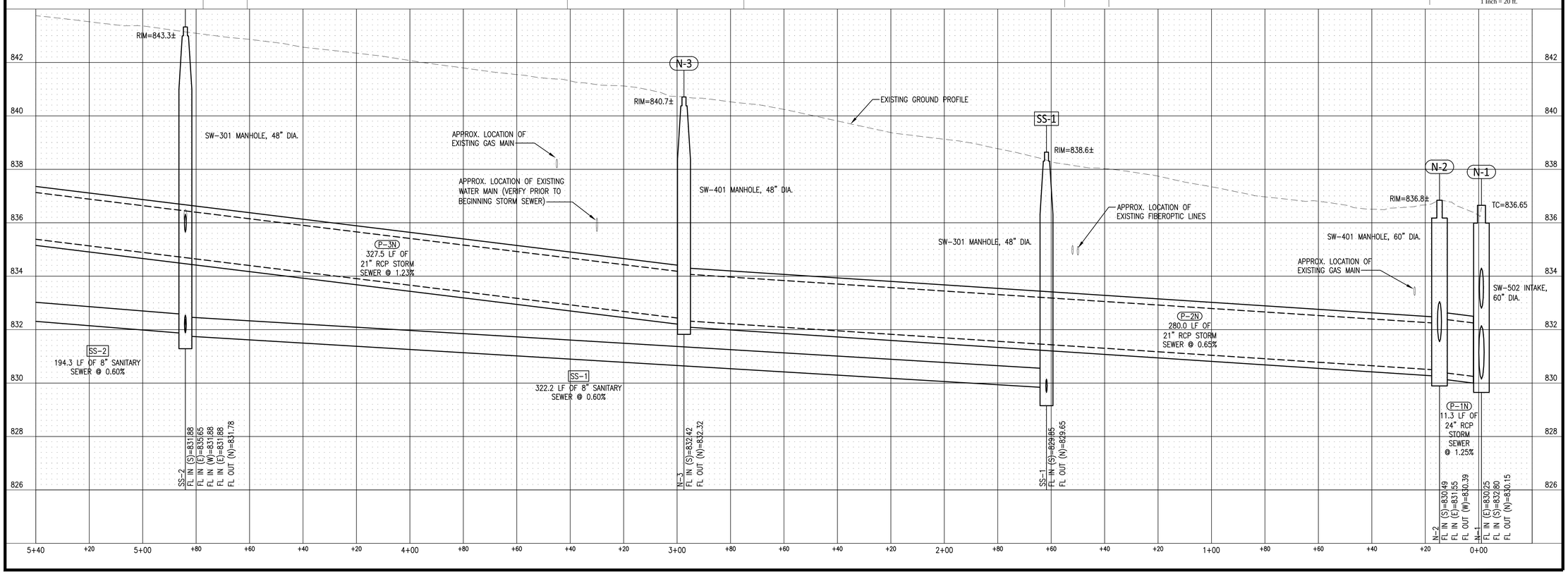
Sanitary Sewer materials and construction shall be in accordance with the SUDAS Standard Specifications, 2014 Edition, plus current Supplemental Special Specifications and Special Provisions.

NOTE:
SANITARY SEWER STUBS SHALL INCLUDE FITTINGS AS NECESSARY TO INSTALL ALL SANITARY SEWER SERVICES BELOW PROPOSED STORM SEWER.
PROVIDE MINIMUM 1' OF SEPARATION BETWEEN SANITARY SERVICES AND PROPOSED STORM SEWER WHERE POSSIBLE.



SOUTH 6TH STREET RECONSTRUCTION NOTE:
REMOVE EXISTING SEALCOAT/ASPHALT SURFACING AS REQUIRED FOR INSTALLATION OF NEW STORM AND SANITARY SEWERS. PROTECT EXISTING CURB AND GUTTER SECTION. AFTER INSTALLATION AND BACKFILL OF NEW STORM AND SANITARY SEWERS, PLACE MINIMUM 6" THICK GRANULAR SUBBASE AND TWO COURSE SEAL COAT SURFACING ON ROADWAY. COST OF GRANULAR SUBBASE SHALL BE INCLUDED IN THE UNIT PRICE FOR TWO COURSE SEAL COAT. APPROXIMATE QUANTITY – 1,450 SQUARE YARDS.



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SHEET TITLE
SOUTH 6TH STREET PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
M.06

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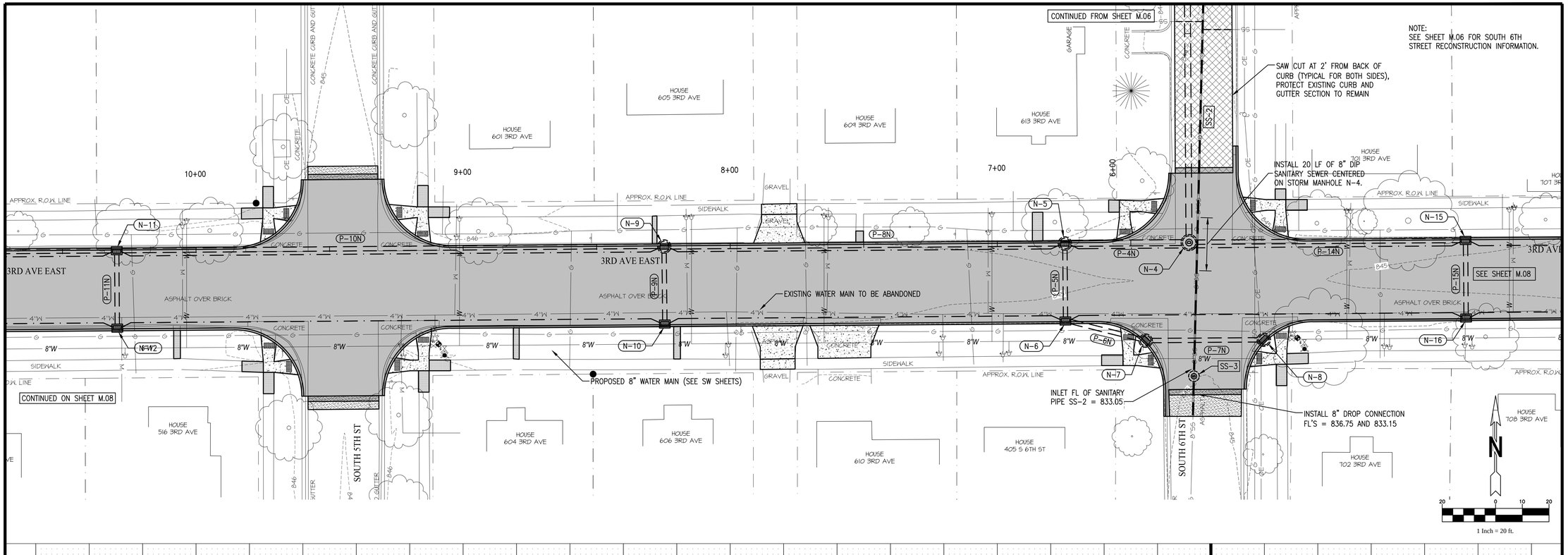

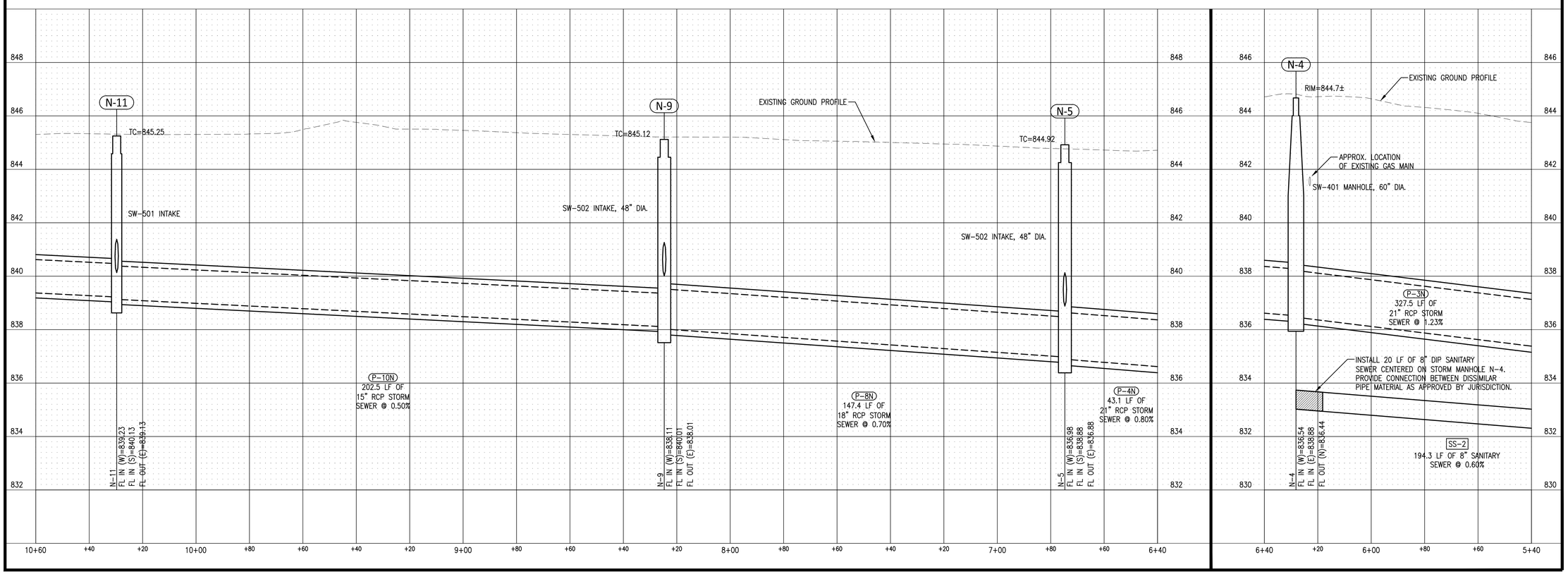

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SHEET TITLE
3RD AVE EAST STORM SEWER PLAN AND PROFILE

SCALE:
1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

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SHEET NO.:
M.07

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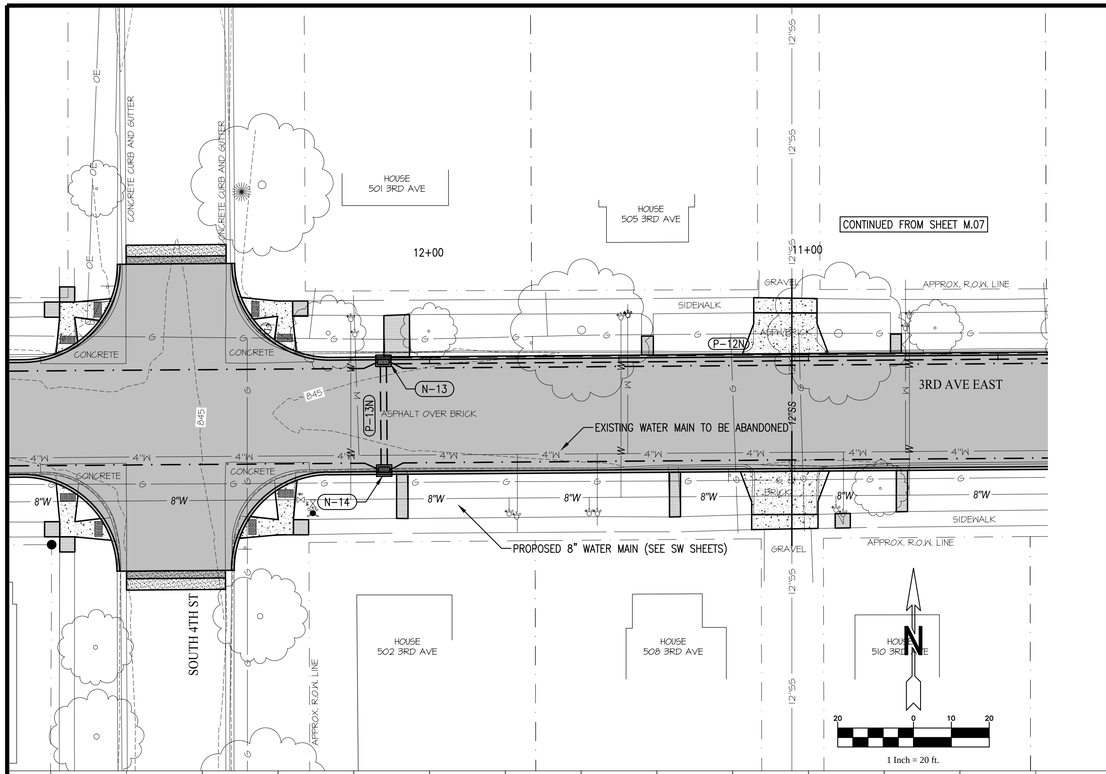

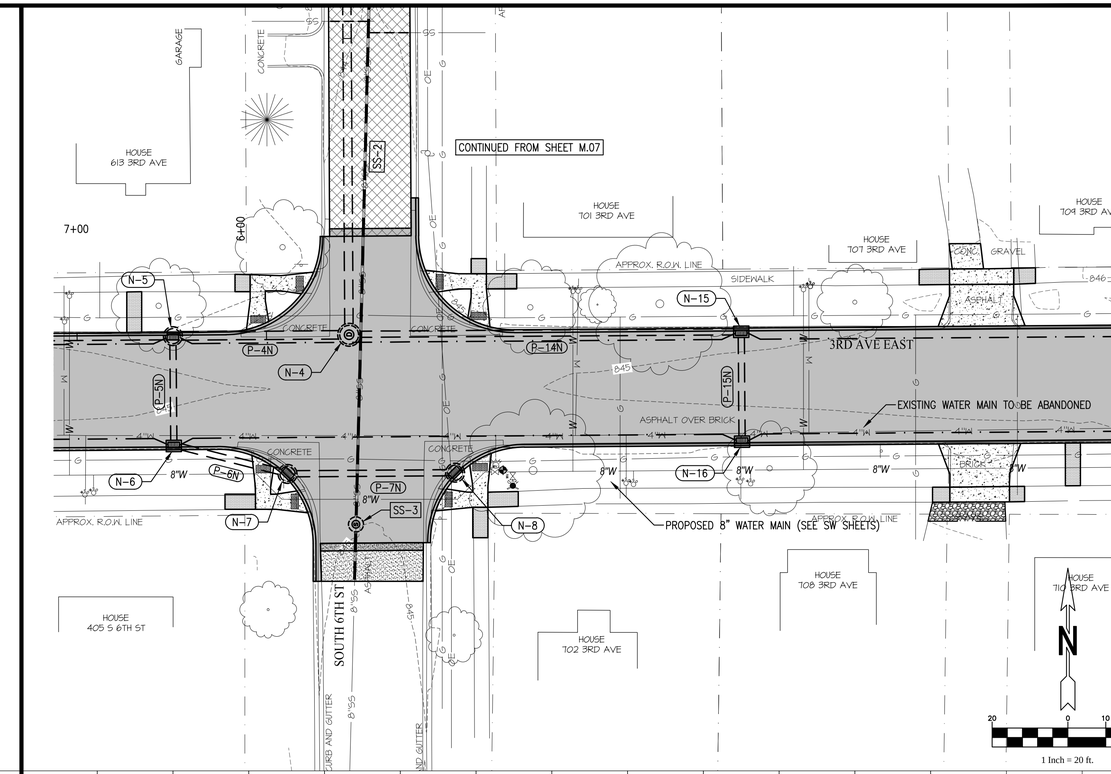

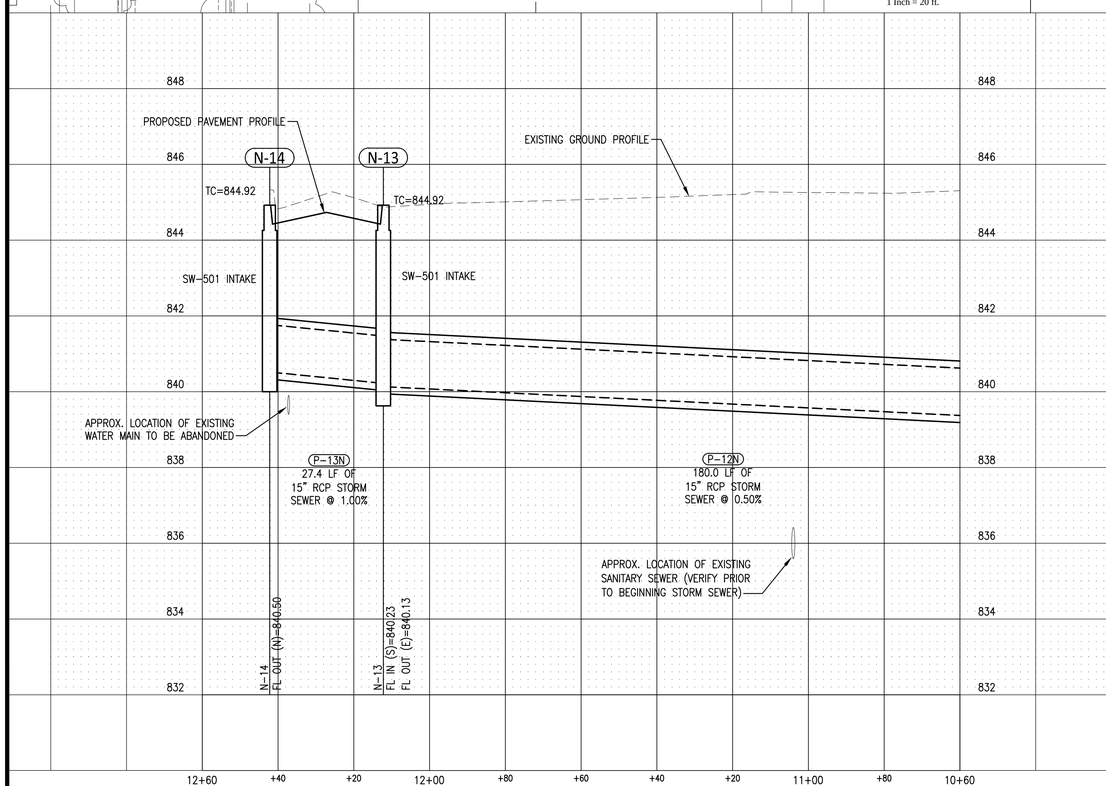

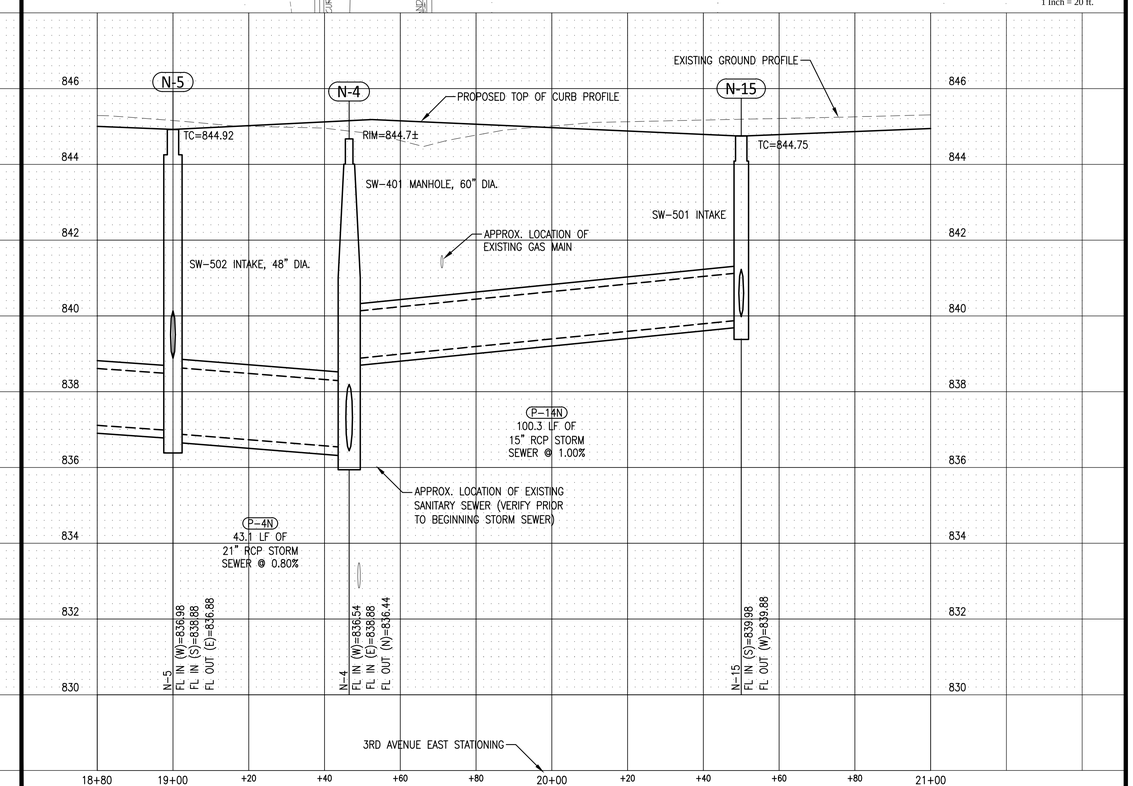

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SHEET TITLE
3RD AVE EAST STORM SEWER PLAN AND PROFILE

SCALE: 1" = 20' HOR. 1" = 2' VERT.

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: M.08

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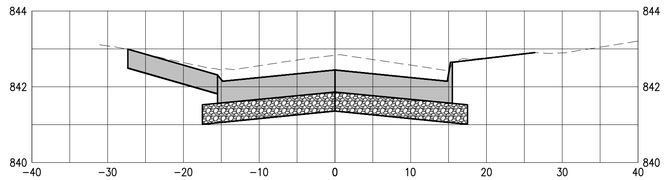

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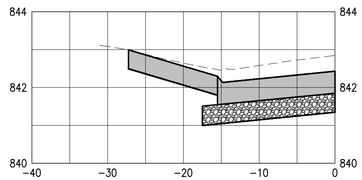

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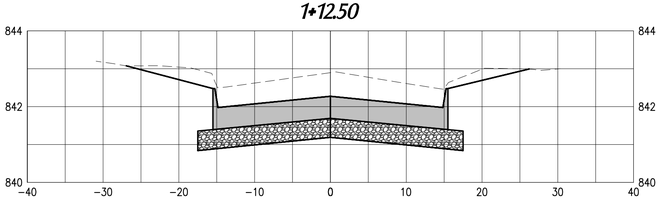

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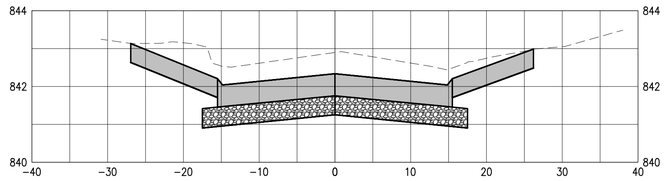

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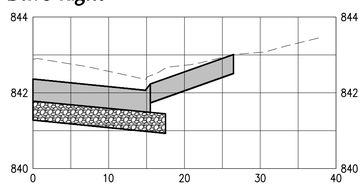

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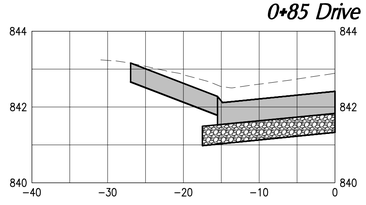

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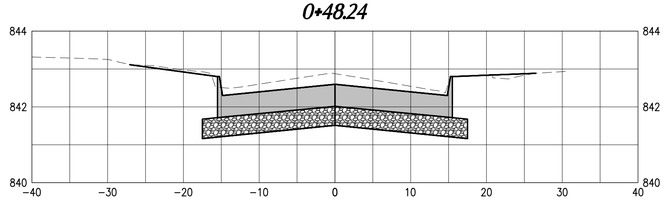

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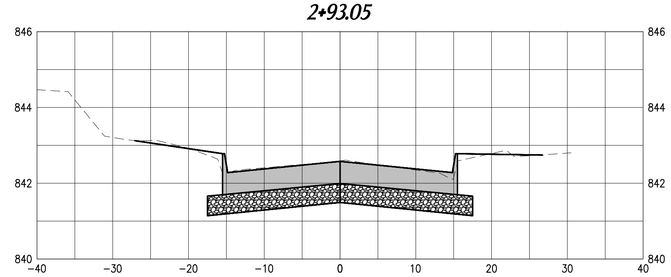

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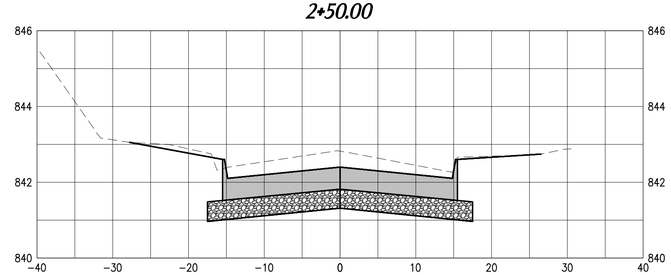

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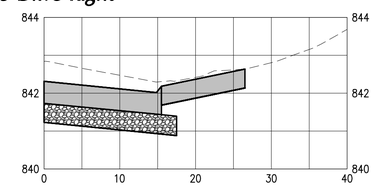

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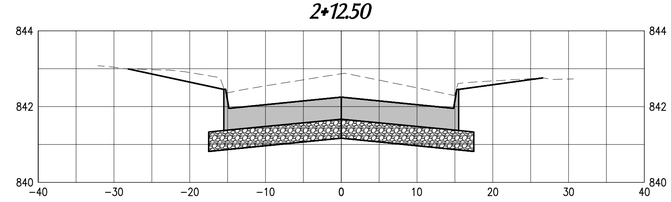

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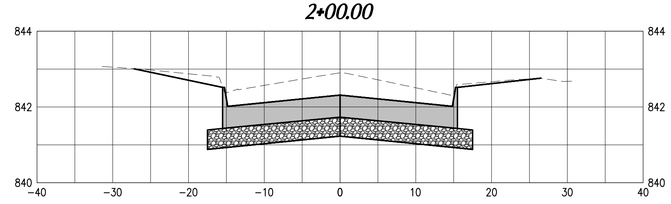

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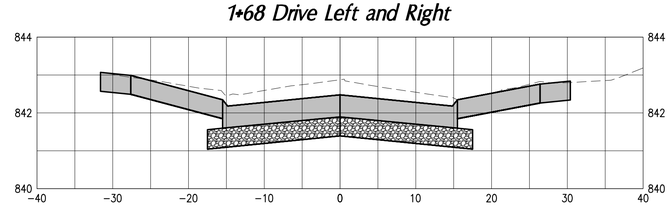

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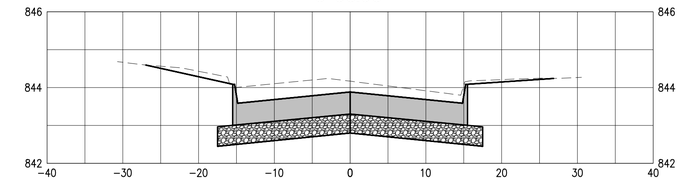

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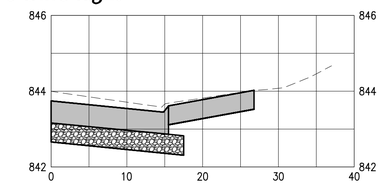

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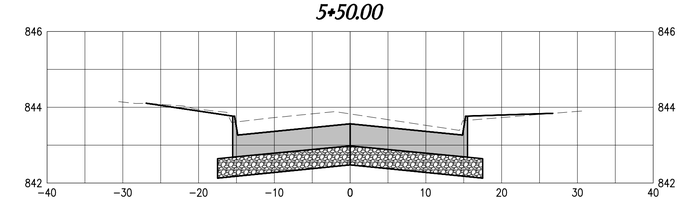

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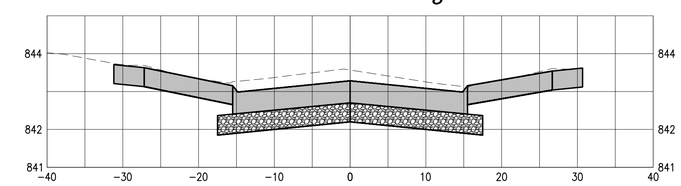

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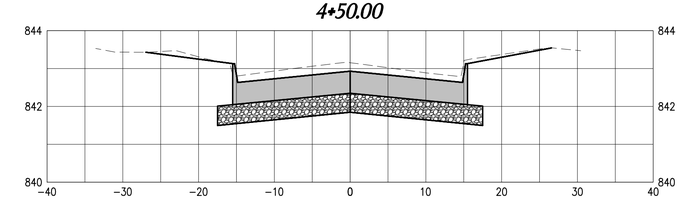

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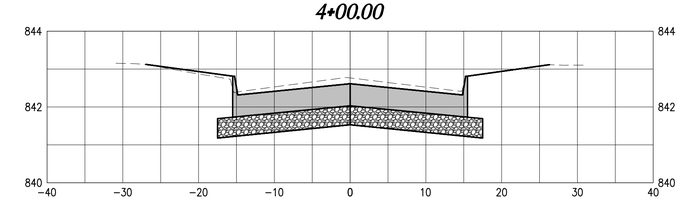

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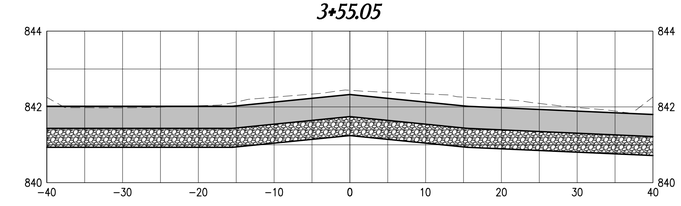

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
CROSS SECTIONS
3RD AVENUE EAST

SCALE:
1" = 10' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
W.01

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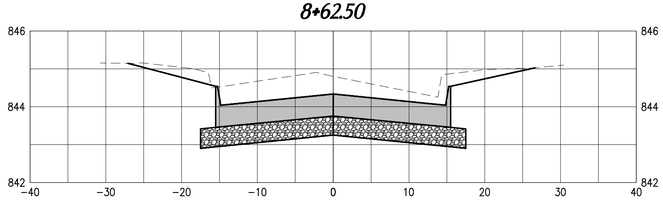

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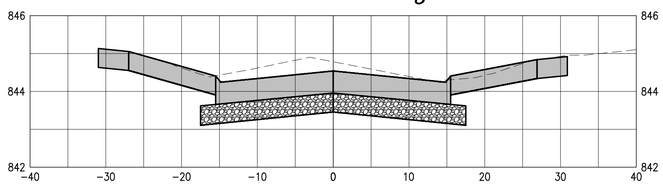

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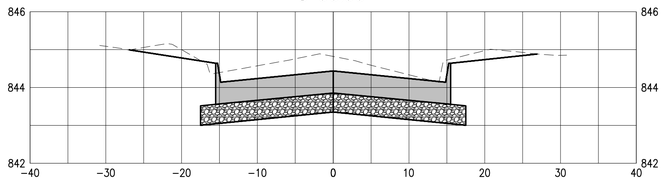

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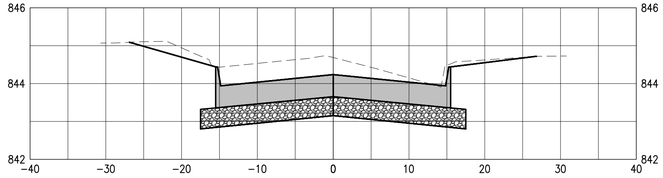

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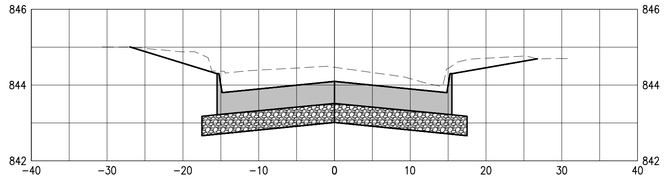

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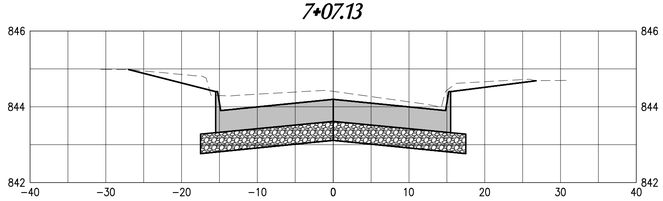

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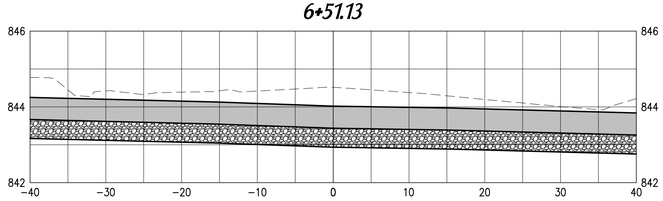

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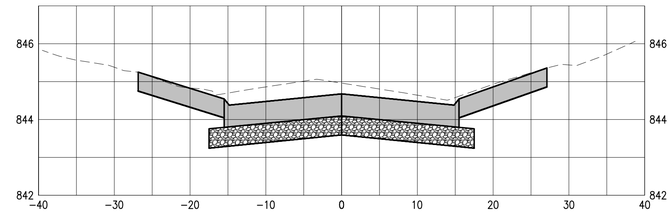

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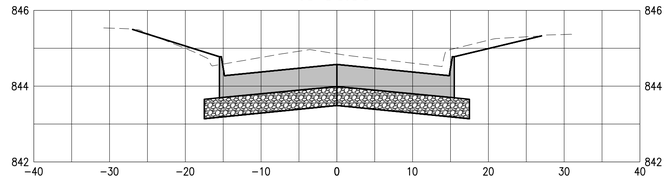

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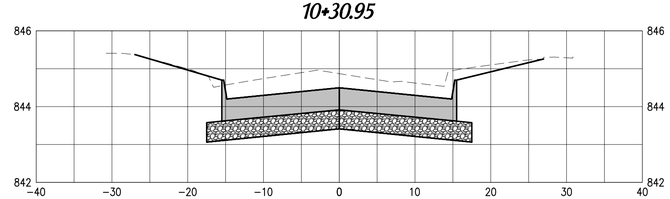

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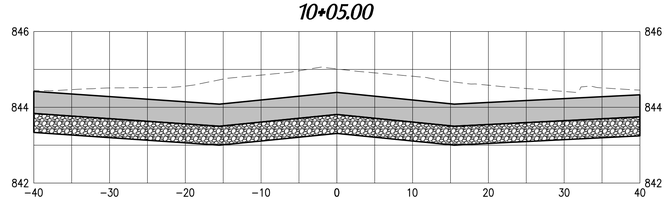

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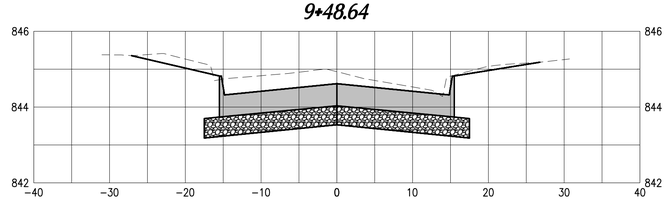

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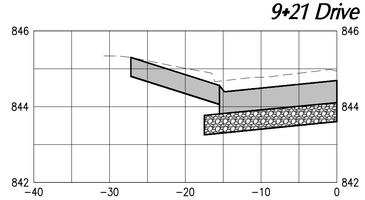

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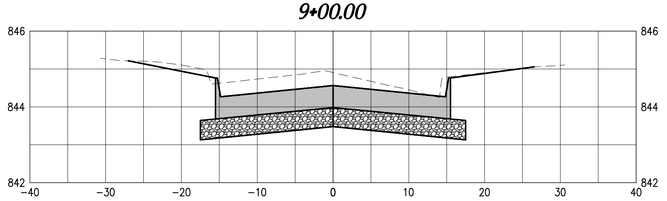

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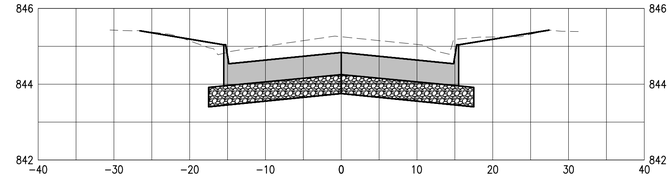

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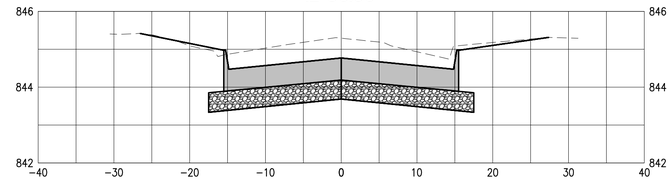

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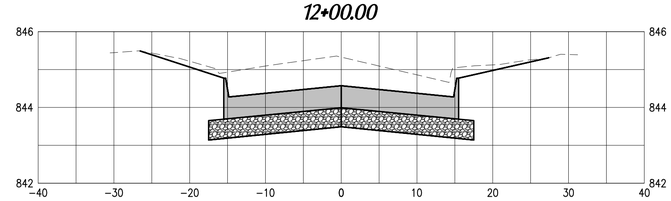

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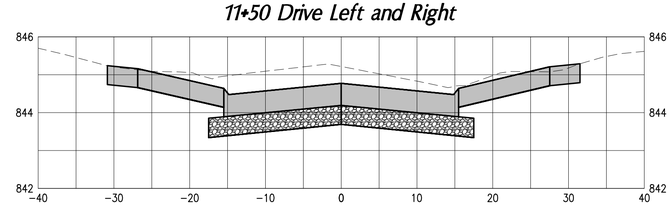

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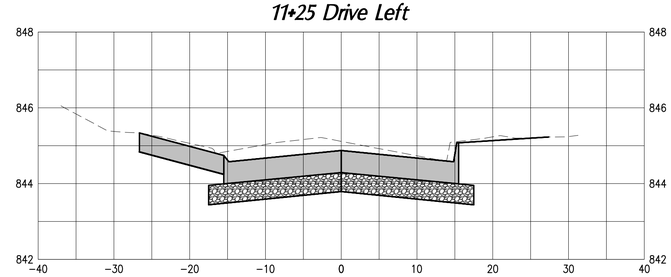

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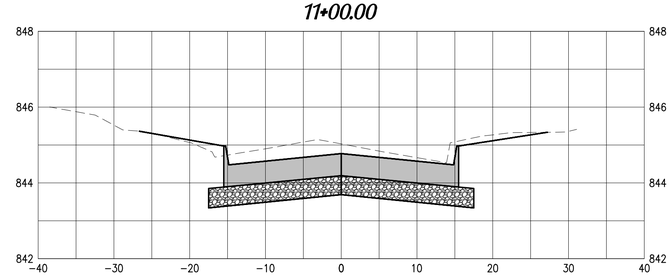

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
CROSS SECTIONS
3RD AVENUE EAST

SCALE:
1" = 10' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
W.02

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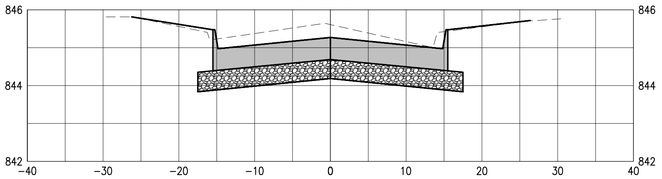

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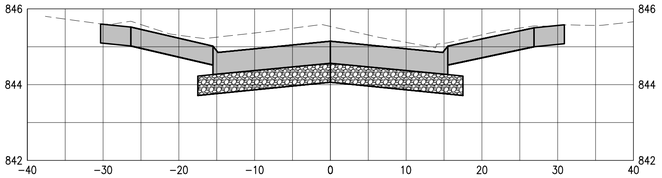

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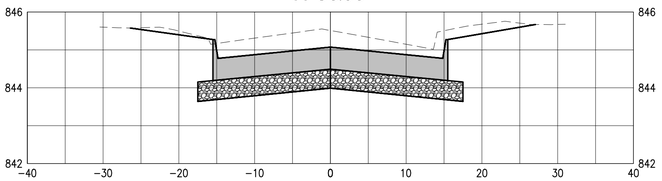

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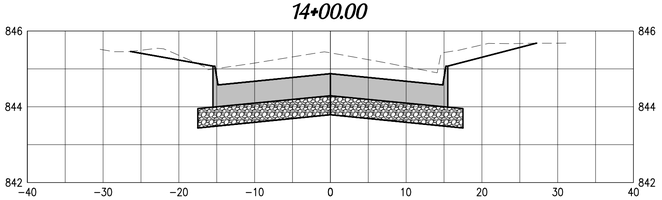

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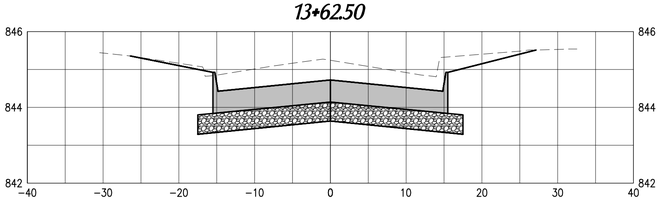

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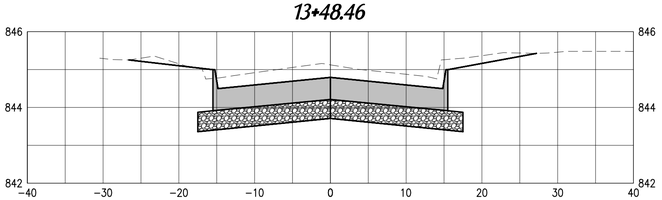

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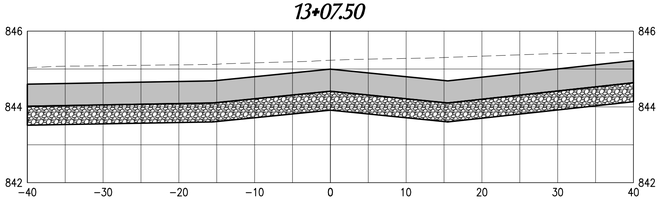

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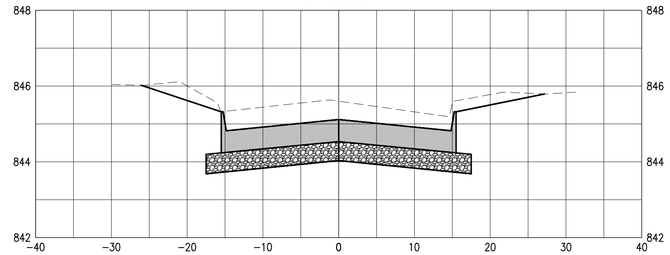

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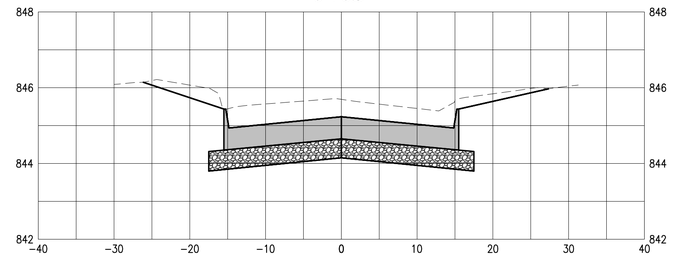

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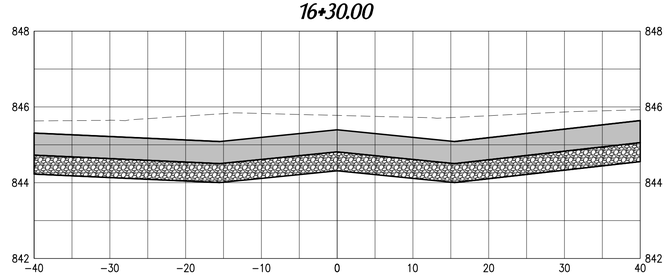

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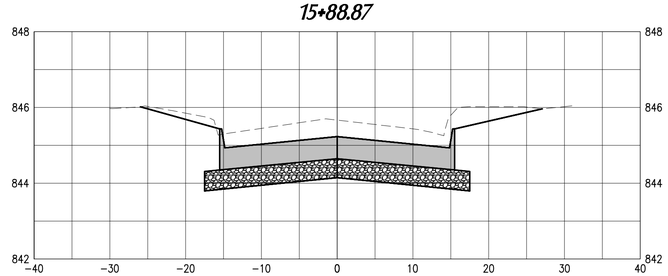

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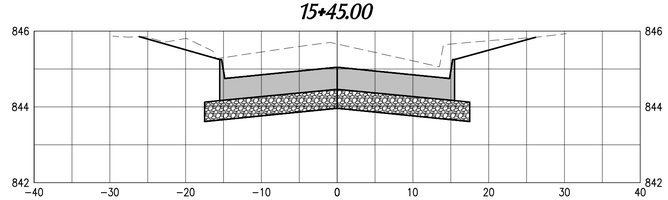

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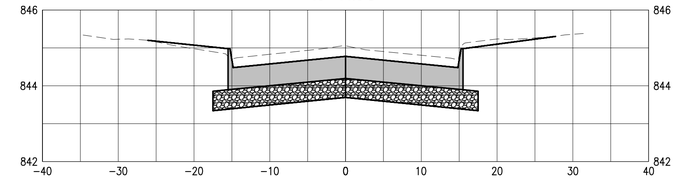

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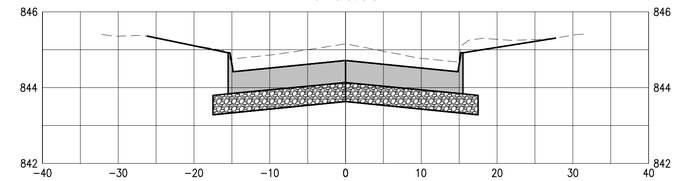

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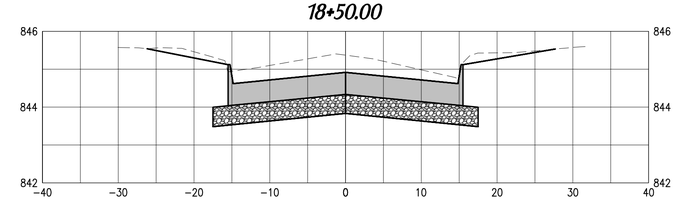

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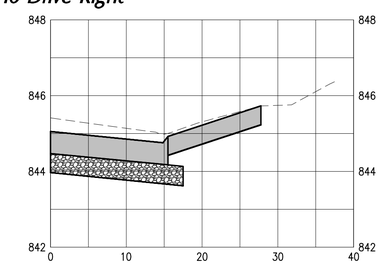
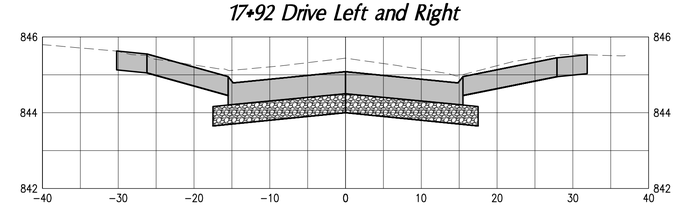


17+92 Drive Left and Right



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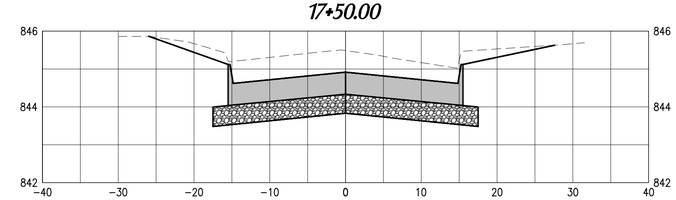

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
CROSS SECTIONS
3RD AVENUE EAST

SCALE:
1" = 10' HOR. 1" = 2' VERT.

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
W.03

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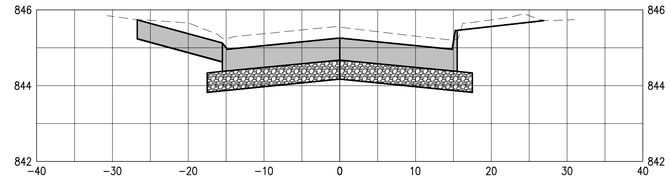

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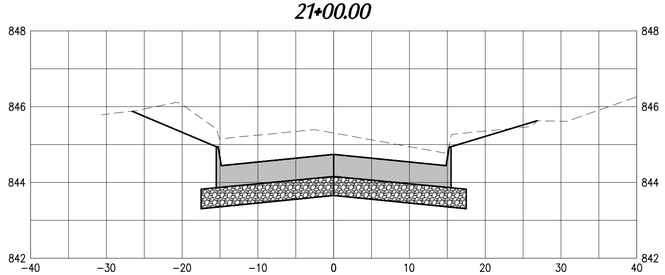

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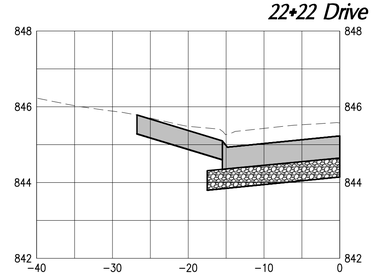

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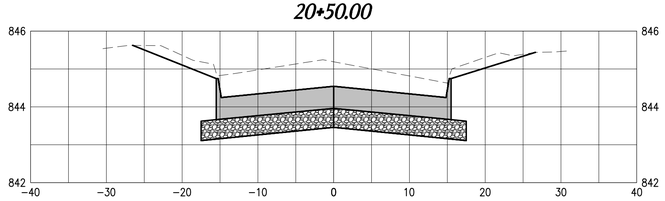

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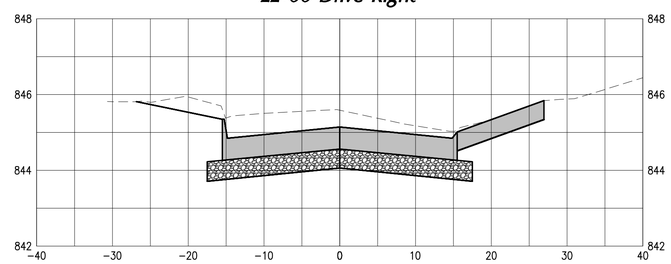

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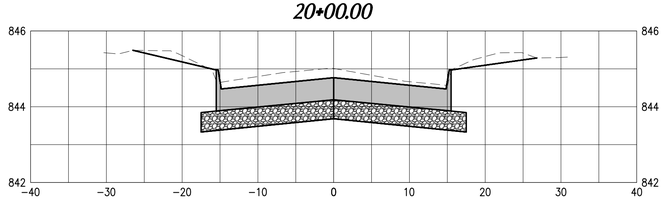

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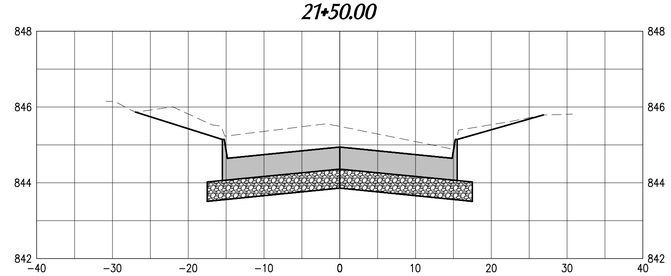

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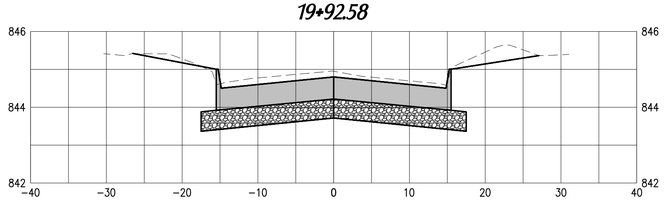
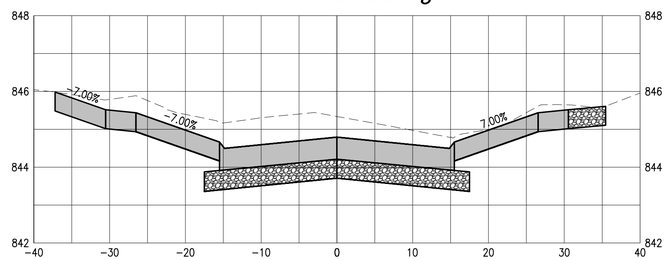


21+12 Drive Left and Right



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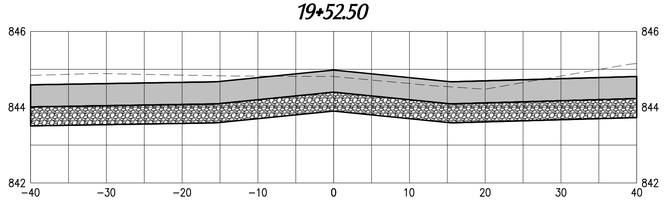

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
CROSS SECTIONS
3RD AVENUE EAST

SCALE:
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FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
W.04

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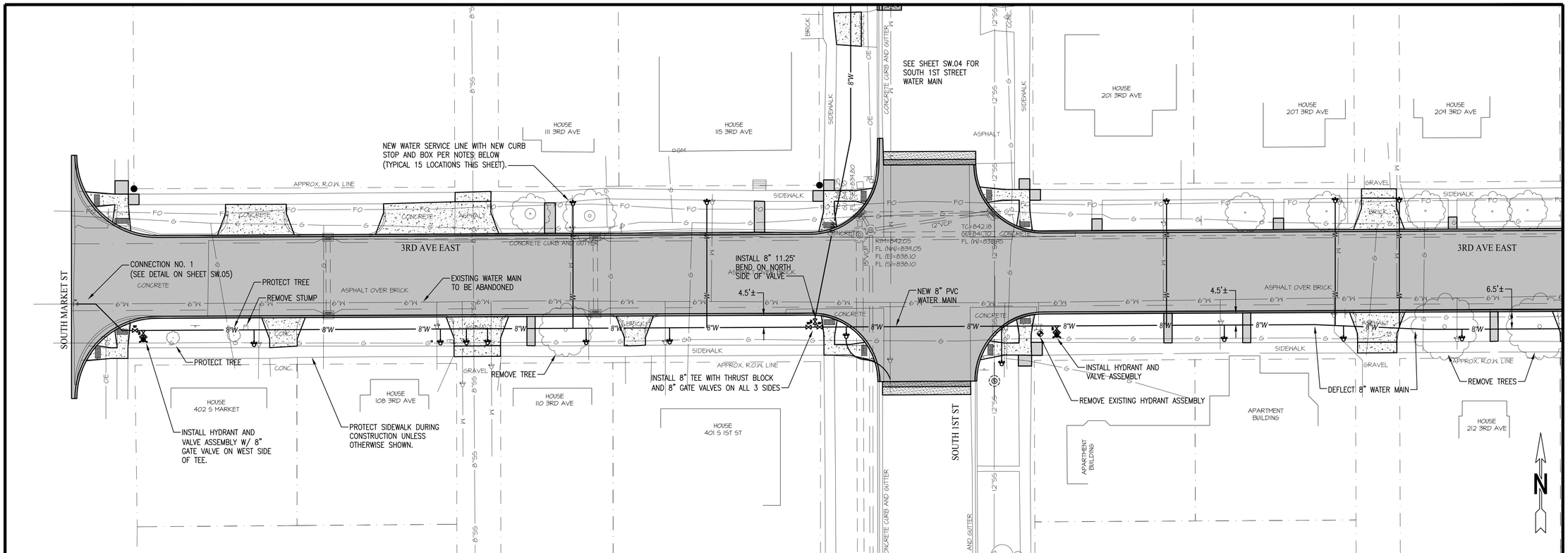

WATER MAIN GENERAL NOTES

1. SCHEDULE WORK TO MINIMIZE INTERRUPTION OF CONTINUOUS SERVICE OF EXISTING WATER SYSTEM. DO NOT ALLOW SERVICE TO BE INTERRUPTED TO ANY USER ON WEEKDAYS BETWEEN THE HOURS OF 5 PM AND 8 AM AND AT ANY TIME ON WEEKENDS. PROVIDE TEMPORARY CONNECTIONS AND SERVICE CONNECTIONS AS REQUIRED TO PROVIDE WATER SERVICE DURING THESE PERIODS. COST FOR PROVIDING TEMPORARY SERVICE IS INCIDENTAL TO CONSTRUCTION.

2. LEAVE NO EXCAVATION OR TRENCH OPEN OVER NIGHT OR WEEKENDS WITHOUT PERMISSION OF OWNER AND PROVISIONS MADE FOR ADEQUATE BARRICADES AND LIGHTS TO PROTECT TRAFFIC AND/OR PEDESTRIANS.

3. PROTECT TREES, SHRUBS AND OTHER PLANTINGS FROM DAMAGE DURING CONSTRUCTION UNLESS SHOWN OTHERWISE. REMOVE TREES NECESSARY FOR CONSTRUCTION ONLY AFTER APPROVAL FROM ENGINEER AND JURISDICTION.

4. CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNSUITABLE BACKFILL MATERIAL. DISPOSAL SHALL MEET FEDERAL, STATE AND LOCAL SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTS.

5. KEEP CONSTRUCTION ACTIVITIES WITHIN PUBLIC RIGHT-OF-WAY. DO CLEAN-UP AS WORK PROGRESSES.

6. REMOVE EXISTING HYDRANT AND VALVE ASSEMBLIES WHERE SHOWN ON PLANS. ALL HYDRANTS REMOVED WILL BE SALVAGED AND RETAINED BY THE OSKALOOSA MUNICIPAL WATER DEPARTMENT (OMWD). EXISTING HYDRANTS DAMAGED DURING THE REMOVAL PROCESS DUE TO CONTRACTOR'S NEGLIGENCE WILL BE REPLACED WITH NEW HYDRANT AT NO ADDITIONAL COST TO JURISDICTION. OMWD WILL RETRIEVE SALVAGED HYDRANTS FROM JOB SITE. ALL VALVES REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR. REMOVE AND DISPOSE OF EXISTING VALVE BOXES WHERE SHOWN ON PLANS. REMOVAL OF VALVES AND VALVE BOXES ARE INCIDENTAL TO CONSTRUCTION. CAPPING AND PLUGGING OF EXISTING WATER MAINS IS INCIDENTAL TO CONSTRUCTION.

7. INSTALL WATER MAIN WITH MINIMUM 5 FEET OF EARTH COVER AND MINIMUM 5 FEET BELOW PAVEMENTS.

8. ALL NEW HYDRANTS AND VALVES WILL BE SUPPLIED BY OMWD AND DELIVERED TO JOB SITE. TAPPING VALVES AND SLEEVES AND ALL OTHER FITTINGS REQUIRED FOR CONNECTIONS AND COMPLETE INSTALLATION SHALL BE FURNISHED BY THE CONTRACTOR; INCLUDING ANCHORING PIPE AND TEES, VALVE BOXES AND LIDS, VALVE BOX STEM EXTENSIONS (IF NECESSARY), T-BOLTS, GLAND UNITS, TRACER WIRE AND TRACER WIRE TERMINAL BOX, SPLICE KITS AND THRUST BLOCKS. COORDINATE DELIVERY SCHEDULE OF NEW HYDRANTS AND VALVES WITH OMWD.

9. ALL NEW WATER MAIN VALVES SHALL BE INSTALLED OUTSIDE OF NEW PAVEMENTS WHERE POSSIBLE UNLESS OTHERWISE DIRECTED BY OMWD.

10. DOUBLE WRAP VALVES AND FITTINGS WITH POLYETHYLENE ENCASEMENT AND BACKFILL WITH SAND WITHIN 1 FOOT OF VALVE OR FITTING. COST FOR POLYETHYLENE ENCASEMENT AND SAND ARE INCIDENTAL TO CONSTRUCTION.

11. INSTALL NEW WATER MAIN AND CORPORATIONS AND DISINFECT AND PRESSURE TEST ENTIRE NEW SYSTEM PRIOR TO INSTALLING SERVICE LINES. PROVIDE TEMPORARY FITTINGS AND/OR CONNECTION TO TEST SYSTEM. WORK IS INCIDENTAL TO CONSTRUCTION.

WATER SERVICE NOTES

1. INSTALL NEW WATER SERVICES AS SHOWN ON PLANS. EXTEND NEW WATER SERVICE CONNECTIONS FROM NEW WATER MAIN TO NEW CURB STOP AND MAKE CONNECTION TO EXISTING SERVICE PIPE UNLESS SHOWN OTHERWISE. REMOVE AND DISPOSE OF EXISTING CURB STOPS AND BOXES. REMOVAL AND DISPOSAL OF EXISTING CURB STOP AND BOX IS INCIDENTAL TO CONSTRUCTION.

2. NEW SERVICE INCLUDES 1" COPPER SERVICE PIPE, UNLESS OTHERWISE SHOWN. CORPORATION AT MAIN AND NEW CURB STOP WITH BOX WHERE SHOWN ON PLANS. CONTRACTOR TO VERIFY EXISTING SERVICE LOCATION, SIZE, AND MATERIAL BEFORE BEGINNING INSTALLATION OF NEW SERVICE PIPE. PROVIDE NECESSARY FITTINGS AND COUPLINGS FOR CONNECTIONS TO DISSIMILAR PIPE MATERIALS AND SIZES (INCIDENTAL TO CONSTRUCTION).

3. INSTALL NEW CURB STOPS AND BOXES 1' FROM SIDEWALK ON STREET SIDE UNLESS OTHERWISE APPROVED BY THE OSKALOOSA MUNICIPAL WATER DEPARTMENT.

4. INSTALL WATER MAIN SERVICES WITH MINIMUM 5 FEET OF EARTH COVER AND 5 FEET BELOW PAVEMENTS.

5. VERIFY LOCATION OF EXISTING UTILITIES BEFORE BEGINNING INSTALLATION OF NEW SERVICE PIPE.

6. CONTRACTOR SHALL NOTIFY OMWD AND ENGINEER WHEN LEAD SERVICES ARE ENCOUNTERED. CONTRACTOR SHALL NOT DEACTIVATE EXISTING SERVICE UNTIL DECISION HAS BEEN MADE RELATIVE TO THE WORK TO BE PERFORMED IN THE REPLACEMENT OF SERVICE. CONTRACTOR SHALL HAVE ON SITE THE NECESSARY LEAD-SIZED COMPRESSION FITTINGS TO MAKE CONNECTIONS BETWEEN DISSIMILAR PIPE MATERIALS AND SIZES.

METHODS OF CONSTRUCTION FOR ALL DIVISION 2 (WATER MAIN AND WATER SERVICE LINE) WORK SHALL BE IN ACCORDANCE WITH THE SUDAS STANDARD SPECIFICATIONS. ALL MATERIALS FOR DIVISION 2 SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION, OSKALOOSA MUNICIPAL WATER DEPARTMENT

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
DIVISION 2
WATER MAIN
REPLACMENT PLAN

SCALE: 1' = 20'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: SW.01

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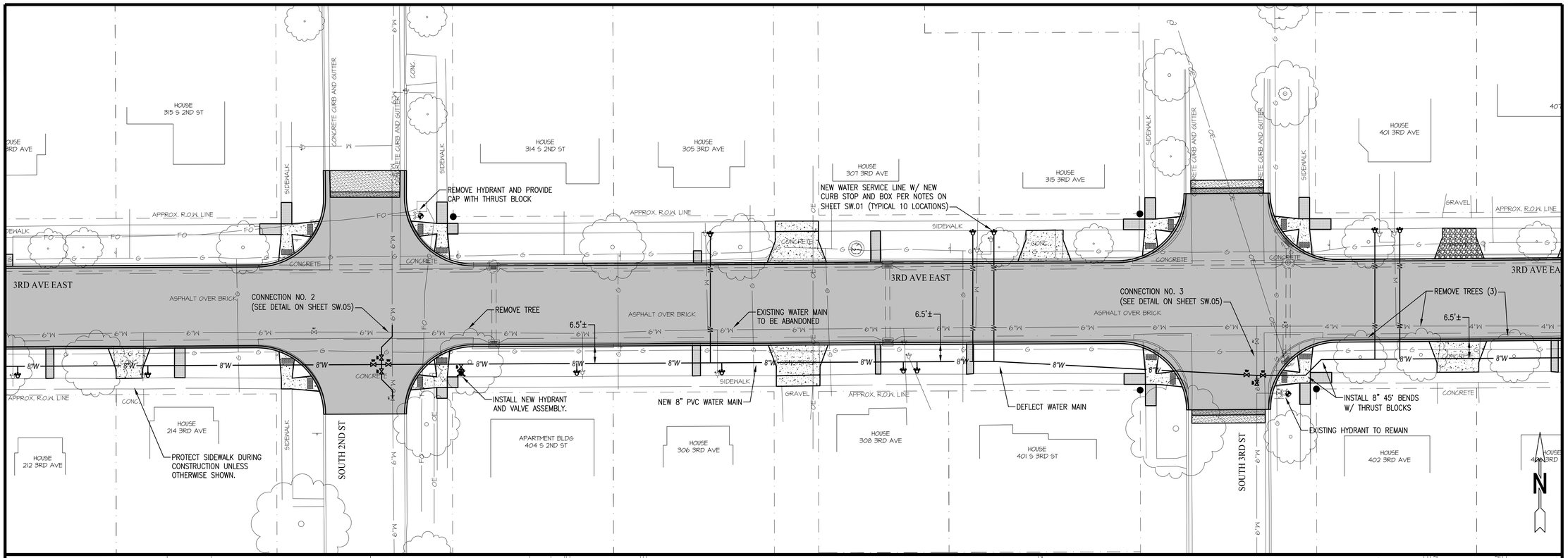

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SHEET TITLE
DIVISION 2
WATER MAIN
REPLACEMENT PLAN

SCALE: 1' = 20'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

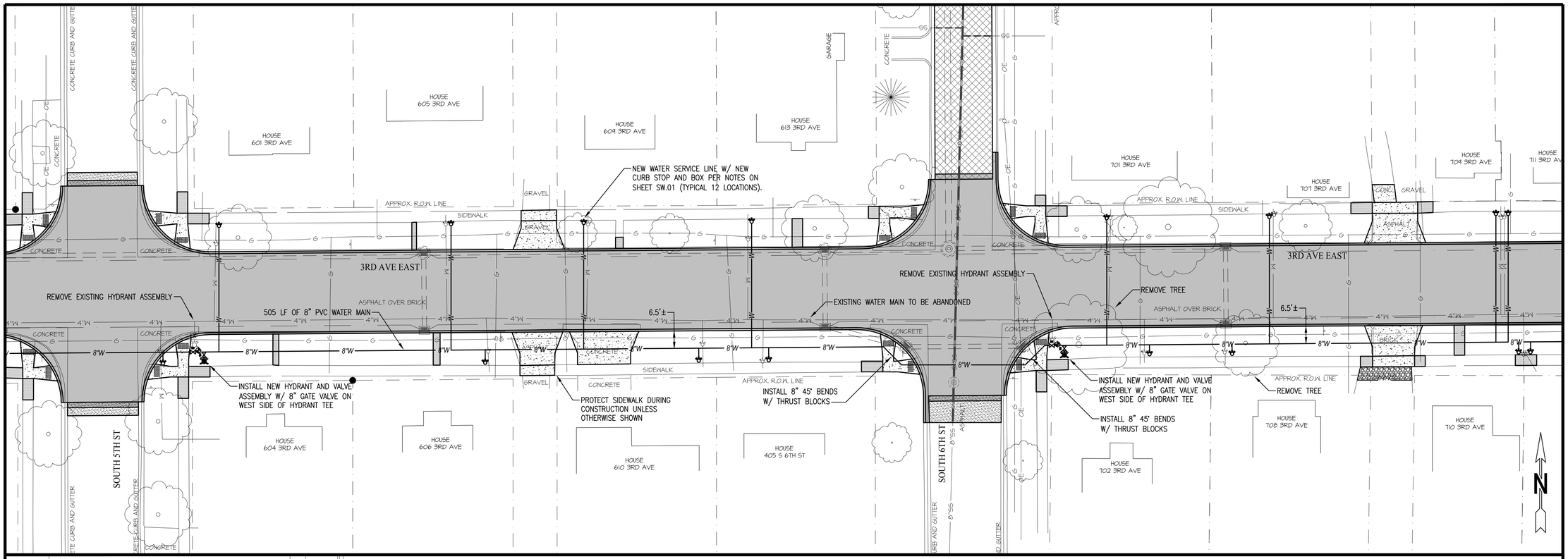
APPROVED: RAN

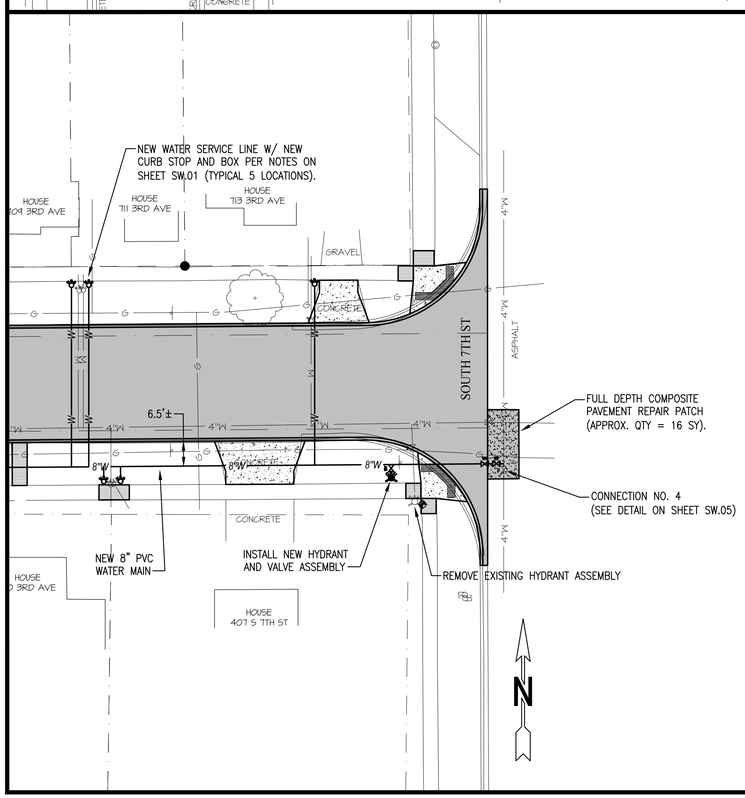
REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: SW.02





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SHEET TITLE
DIVISION 2
WATER MAIN
REPLACEMENT PLAN

SCALE: 1' = 20'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: SW.03

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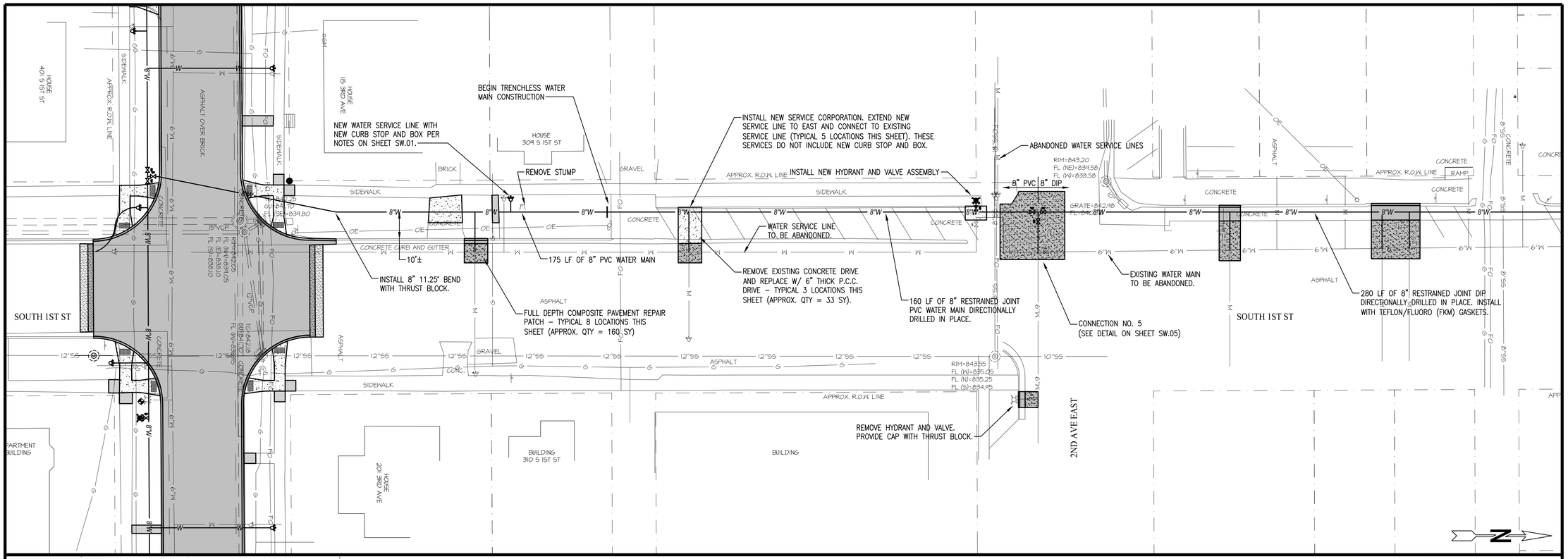

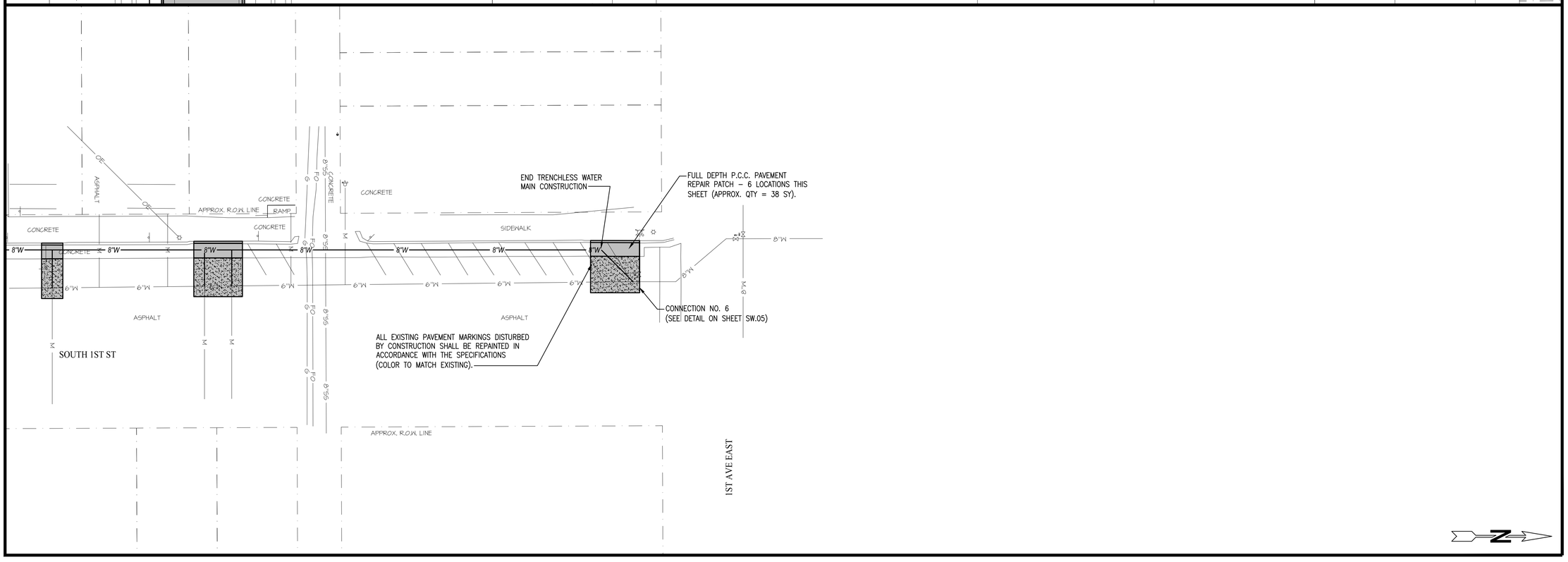

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SHEET TITLE
DIVISION 2 WATER MAIN REPLACEMENT PLAN

SCALE: 1' = 20'

FIELD BOOK: 70-NN-4

DRAWN BY: KJR

APPROVED: RAN

REVISIONS:

DATE: MAY 21, 2014

PROJECT NO.: 5013368

SHEET NO.: SW.04

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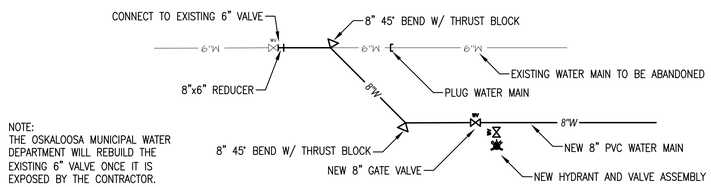
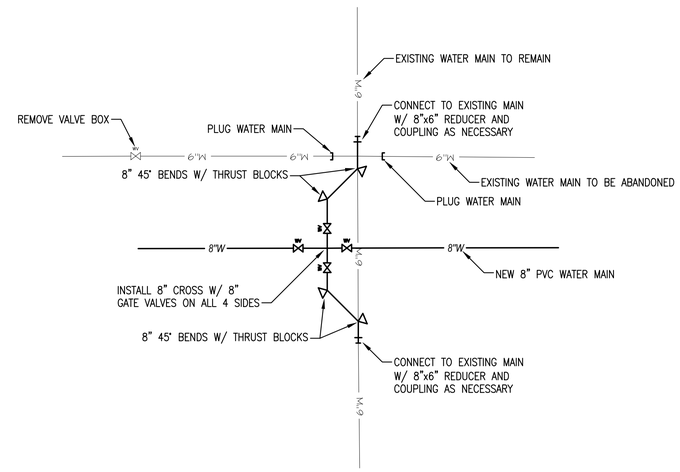


NOTE:
THE OSKALOOSA MUNICIPAL WATER DEPARTMENT WILL REBUILD THE EXISTING 6" VALVE ONCE IT IS EXPOSED BY THE CONTRACTOR.

CONNECTION NO. 1



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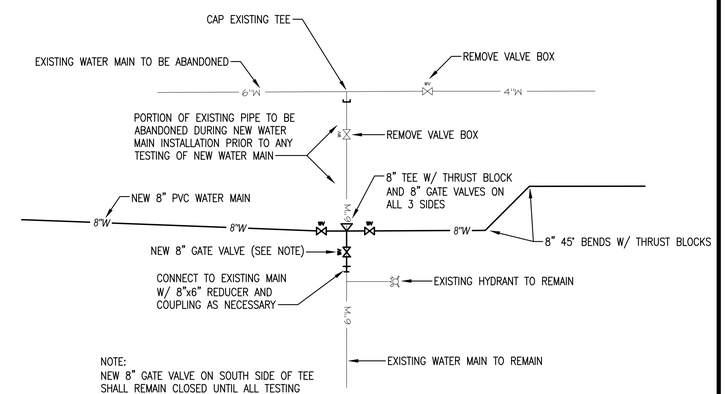
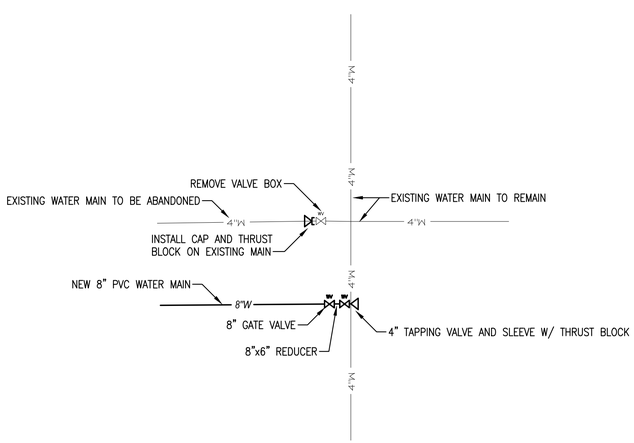


NOTE:
NEW 8" GATE VALVE ON SOUTH SIDE OF TEE SHALL REMAIN CLOSED UNTIL ALL TESTING AND DISINFECTION OF NEW WATER MAINS HAS BEEN SATISFACTORILY COMPLETED.

CONNECTION NO. 3



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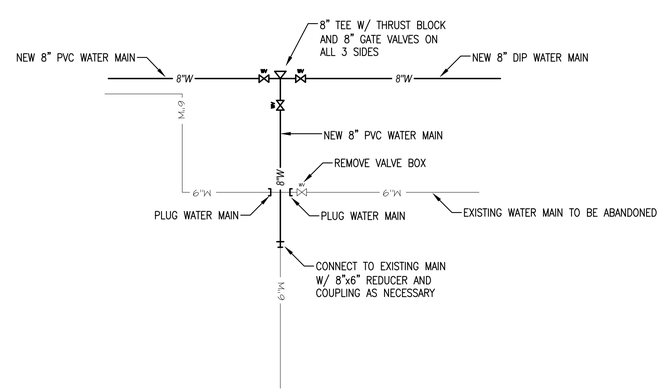
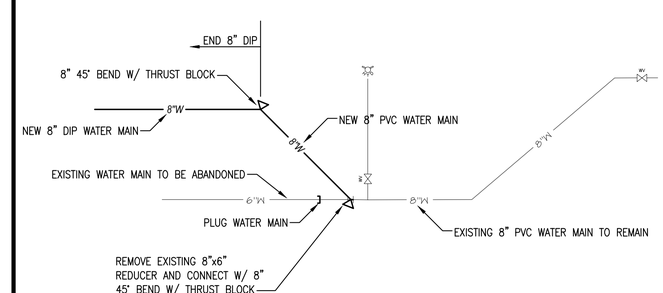


CONNECTION NO. 5

NOTE:
CONTRACTOR WILL BE REQUIRED TO PROVIDE TEMPORARY CAP W/ THRUST BLOCK AND BLOWOFF. TEMPORARY CAP AND BLOWOFF SHALL BE REMOVED AFTER SUCCESSFUL TESTING AND DISINFECTION OF NEW WATER SYSTEM IS COMPLETE. CONNECTION TO EXISTING MAIN SHALL BE LAST ORDER OF CONSTRUCTION.



CONNECTION NO. 6

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3RD AVENUE EAST
RECONSTRUCTION PROJECT
OSKALOOSA, IOWA

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SHEET TITLE
DIVISION 2
CONNECTION
DETAILS

SCALE:
NO SCALE

FIELD BOOK:
70-NN-4

DRAWN BY:
KJR

APPROVED:
RAN

REVISIONS:

DATE:
MAY 21, 2014

PROJECT NO.:
5013368

SHEET NO.:
SW.05

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