CITY OF JOLIET
WILL COUNTY, ILLINOIS

2022

ROADWAY IMPROVEMENTS

WALSH AVENUE (Taylor St - Douglas St)

MFT SEC: 22-00547-00-FP



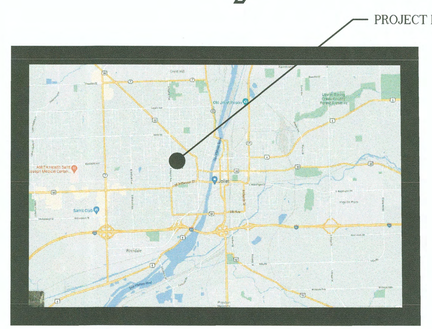
JOLIET TOWNSHIP, W 1/2, NW 1/4, SECTION 9

TRAFFIC DATA
WALSH AVENUE 2022 ADT = 134
SPEED LIMIT = 25 MPH

INDEX OF SHEETS

1. *COVER SHEET*
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3. *TYPICAL DETAILS SHEET*
4. *WALSH AVENUE – PLAN AND PROFILE*
5. *WALSH AVENUE – PLAN AND PROFILE*
6. *WALSH AVENUE – CROSS SECTIONS*
7. *WALSH AVENUE – CROSS SECTIONS*
8. *WALSH AVENUE – CROSS SECTIONS*
9. *DETAILS*
10. *WATERMAIN DETAILS*

WARNING !!!
CALL JULIE TOLLFREE 1-800-892-0123
CALL BEFORE YOU DIG
CITY OF JOLIET UTILITY INFORMATION 724–4220



RYAN Y. LIANG
062-065331
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS

N
W E
S

Date Sealed 4/26/22
Date Expired 11/30/23

DESIGNED & PREPARED BY:
RYAN Y. LIANG, P.E.
CIVIL ENGINEER II

DESIGNED & PREPARED BY:
Mark S. Sefcik
CIVIL ENGINEER

MILOS TODOROVIC
062-073741
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

Date Sealed 11/26/22
Date Expired 11/30/23

APPROVED BY:
CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
MILOS TODOROVIC, P.E.
PUBLIC WORKS ADMINISTRATOR

DATE: *April 2022*

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET
JOLIET, ILLINOIS 60431
(815)–724–4200

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

WALSH AVENUE ROADWAY IMPROVEMENT PROJECT - 2022

ITEM NO.	ITEM DESCRIPTION	WALSH AVENUE MFT	WALSH AVENUE NON - MFT	QUANTITIES	UNITS
	PROJECT LENGTH:	631	631	631	LIN FT
1	TREE ROOT SAWING	16		16	EACH
2	PARKWAY EXCAVATION	1545		1545	SQ YD
3	ROADWAY EXCAVATION	635		635	CU YD
4	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	215		215	CU YD
5	POROUS GRANULAR EMBANKMENT, SPECIAL	215		215	CU YD
6	TRENCH BACKFILL	15	750	765	CU YD
7	SUB-BASE GRANULAR MATERIAL, TYPE C 3"	495		495	SQ YD
8	AGGREGATE BASE COURSE TYPE B 8"	2245		2245	SQ YD
9	PREPARATION OF BASE	1965		1965	SQ YD
10	AGGREGATE BASE REPAIR	75		75	TON
11	STORM SEWERS, PVC SDR 26 8"	275		275	LIN FT
12	SANITARY SERVICE REPLACEMENT(CASE I)	15		15	LIN FT
13	SANITARY SERVICE REPLACEMENT(CASE II)	15		15	LIN FT
14	MANHOLES TO BE RECONSTRUCTED	1		1	EACH
15	FRAME AND GRATE TO BE FURNISHED & INSTALLED, TYPE 11	4		4	EACH
16	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	1390		1390	LIN FT
17	DRIVEWAY PAVEMENT REMOVAL	170		170	SQ YD
18	COMBINATION CURB & GUTTER REMOVAL	1390		1390	LIN FT
19	SIDEWALK REMOVAL	3425		3425	SQ FT
20	COMB. CONC. CURB & GUTTER REMOVAL & REPLACEMENT	60		60	LIN FT
21	LATE SIDEWALK REMOVAL	500		500	SQ FT
22	SIDEWALK REMOVAL AND REPLACEMENT		100	100	SQ FT
23	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	175		175	SQ YD
24	PORTLAND CEMENT CONCRETE SIDEWALK ,5"	3425		3425	SQ FT
25	FURNISHING AND PLACING TOPSOIL	1490		1490	SQ YD
26	SODDING	1490		1490	SQ YD
27	TRAFFIC CONTROL AND PROTECTION	0.5	0.5	1	L SUM
28	SAWCUT ASPHALT SURFACE	289	100	389	LIN FT
29	SAWCUT CONCRETE SURFACE	404		404	LIN FT
30	ASHPALT/CONCRETE SAWING	20		20	LIN FT
31	MODULAR CONCRETE BLOCK RETAINING WALL	20		20	SQ FT
32	MODULAR CONCRETE BLOCK RETAINING WALL TO BE REMOVED AND RE-ERECTED	50		50	SQ FT
33	PROTECTIVE COAT	805		805	SQ YD
34	TEMPORARY DRIVEWAY ACCESS	50		50	TON
35	DETECTABLE WARNINGS	120		120	SQ FT
36	EROSION CONTROL	1		1	L SUM
37	SUMP LINE CONNECTION VARIOUS SIZES	1		1	EACH
38	CLEAN OUT STRUCTURE	1		1	EACH
39	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	300		300	CU YD
40	HARDWOOD MULCH	16		16	EACH
41	DUCTILE IRON WATER MAIN 8", CLASS 52 ZINC COATED (W/ V-BIO POLYWRAP)		675	675	LIN FT
42	DUCTILE IRON WATER MAIN 6", CLASS 52 ZINC COATED (W/ V-BIO POLYWRAP)		50	50	LIN FT
43	8" GATE VALVE COMPLETE WITH VALVE BOX		2	2	EACH
44	WATER SERVICE CONNECTION		23	23	EACH
45	WATER SERVICE LINE, COPPER TYPE K - 1" (LEAD ONLY)		750	750	LIN FT
46	WATER SERVICE LINE, COPPER TYPE K - 1.5" (LEAD ONLY)		100	100	LIN FT
47	MISCELLANEOUS FITTINGS		2500	2500	POUND
48	8" X 6" TEE (TYLER 5-635 OR EQUIVALENT)		3	3	EACH
49	8" X 8" TEE (TYLER 5-635 OR EQUIVALENT)		1	1	EACH
50	6" X 6" TEE (TYLER 5-635 OR EQUIVALENT)		1	1	EACH
51	VALVE VAULTS, TYPE A, 4' DIA. TYPE 1 FRAME, CLOSED LID		1	1	EACH
52	SIDEWALK REMOVAL & REPLACEMENT		100	100	SQ FT
53	HOT MIX ASPHALT REMOVAL AND REPLACEMENT, 4"		563	563	SQ YD
54	FIRE HYDRANT COMPLETE WITH AUXILIARY VALVE		3	3	EACH
55	FIRE HYDRANT TO BE REMOVED		1	1	EACH
56	SANITARY SERVICE REPLACEMENT, PVC SDR 26, 6"		25	25	LIN FT
57	CONNECTION TO EXISTING 8" WATER MAIN (NON-PRESSURE) W/ FITTINGS		1	1	EACH
58	CONNECTION TO EXISTING 6" WATER MAIN (NON-PRESSURE) W/ FITTINGS		1	1	EACH
59	6" CAP		2	2	EACH
60	PROJECT MANAGEMENT (LEAD ONLY)		24	24	HRS
61	1" WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING		200	200	LIN FT
62	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT/CRAWL SPACE (LEAD ONLY)		4	4	EACH
63	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD ONLY)		1	1	EACH
64	WATER SERVICE LINE TYPE L - 1" (LEAD ONLY)		20	20	LIN FT
65	UTILITY LOCATION - PRIVATE PROPERTY (LEAD ONLY)		8	8	EACH
66	WATER METER RELOCATION		3	3	EACH
67	VALVE VAULT TO BE REMOVED		1	1	EACH
68	VALVE BOX TO BE REMOVED		1	1	EACH
69	TREE TRIMMING		1	1	L SUM

2022 ROADWAY IMPROVEMENTS
WALSH AVENUE(Taylor St – Douglas St)
MFT SEC: 22-00547-00-FP

SCALE: NONE
DATE: April 2022
SHEET 2 OF 10

CHECKED BY: MT
DESIGNED BY: MSS
DRAWN BY: KLK

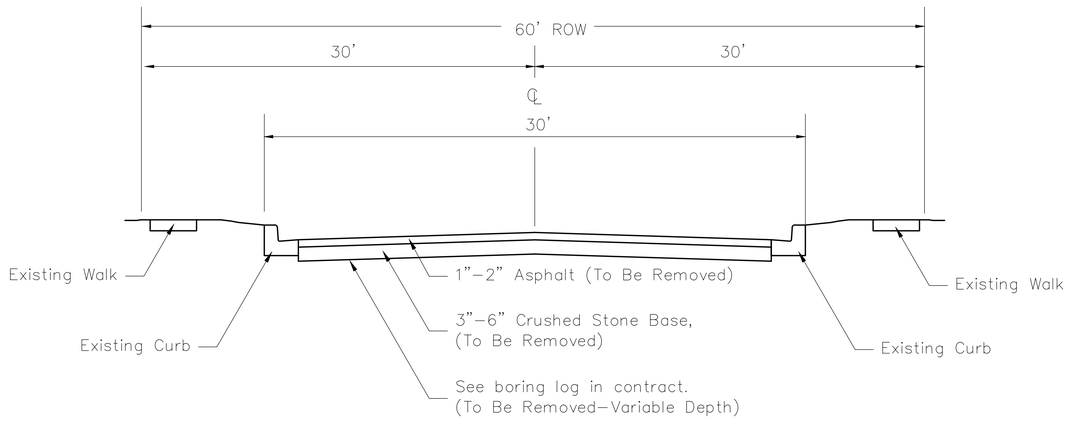
CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)-724-4200

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	**AIR VOIDS @ Ndes**
FLEXIBLE DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 1½ "	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2½ "	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm)	4% @ 50 Gyr.

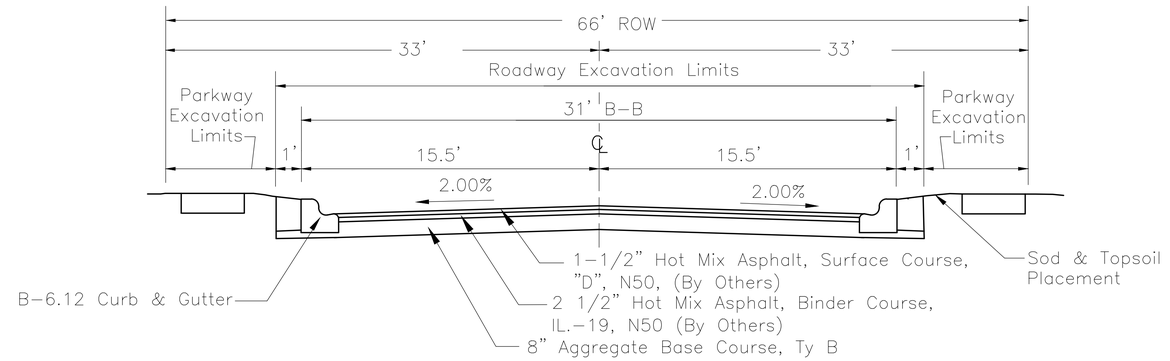
see 1 => THE WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD/IN.

see 1 => THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE " SBS/SBR PG70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

TRAFFIC DATA
WALSH AVENUE ADT = 134
SPEED LIMIT = 25 MPH



EXISTING SECTION
WALSH AVENUE



PROPOSED TYPICAL SECTION
WALSH AVENUE

2022 ROADWAY IMPROVEMENTS
WALSH AVENUE(Taylor St – Douglas St)
MFT SEC: 22–00547–00–FP

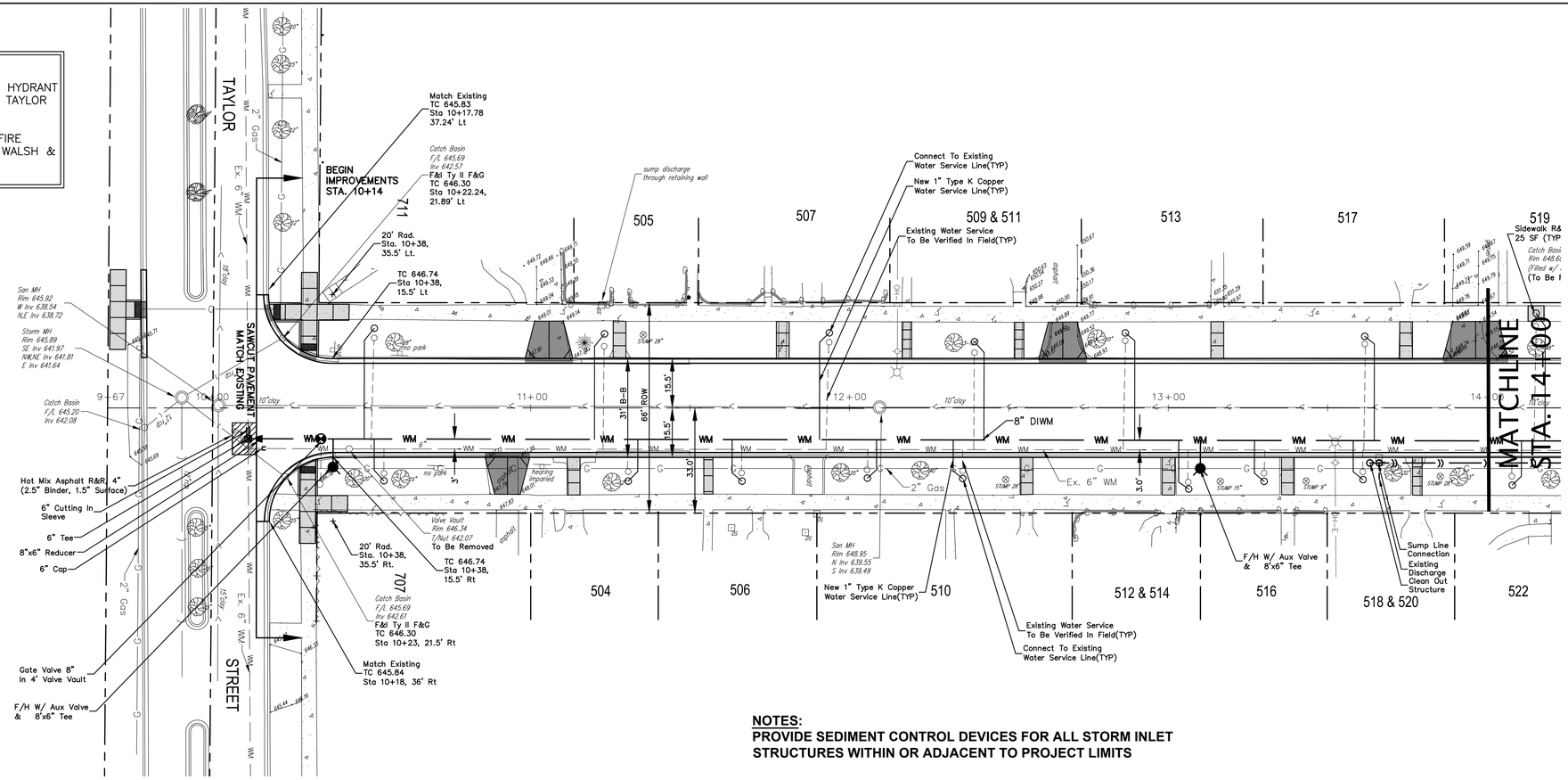
SCALE: NONE
DATE: April 2022
SHEET 3 OF 10
CHECKED BY: MT
DESIGNED BY: MSS
DRAWN BY: KLK

CITY OF JOLIET DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)–724–4200

BENCHMARK:

BM 1: NW BOLT ON FIRE HYDRANT
NE CORNER of WALSH & TAYLOR
ELEVATION 648.09

BM 2: ARROW BOLT ON FIRE
HYDRANT SE CORNER of WALSH &
DOUGLAS
ELEVATION 650.76



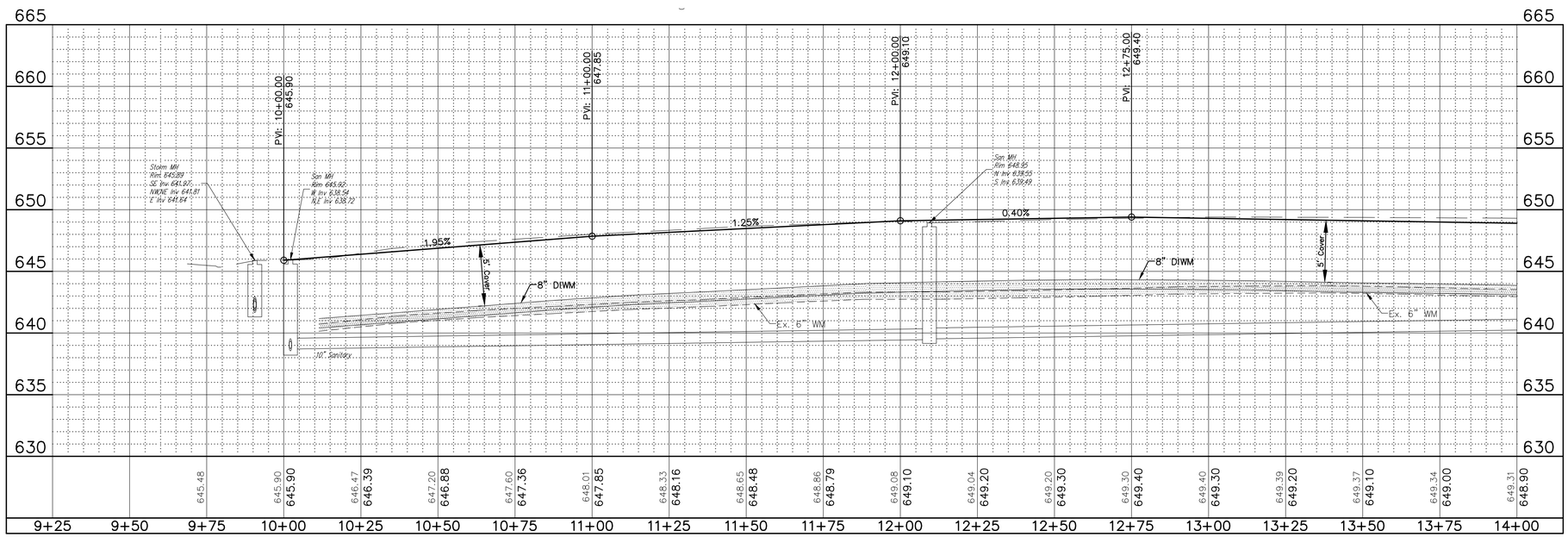
0 20' 40'

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

LEGEND

- PCC Sidewalk
- PCC Driveway, 6"
- Hot Mix Asphalt Remove & Replace 4" (1.5" Surface 2.5" Binder)
- Sanitary Sewer Line
- Storm Sewer Line
- Water Main
- Sump Discharge Line
- Gas Line

NOTES:
PROVIDE SEDIMENT CONTROL DEVICES FOR ALL STORM INLET STRUCTURES WITHIN OR ADJACENT TO PROJECT LIMITS



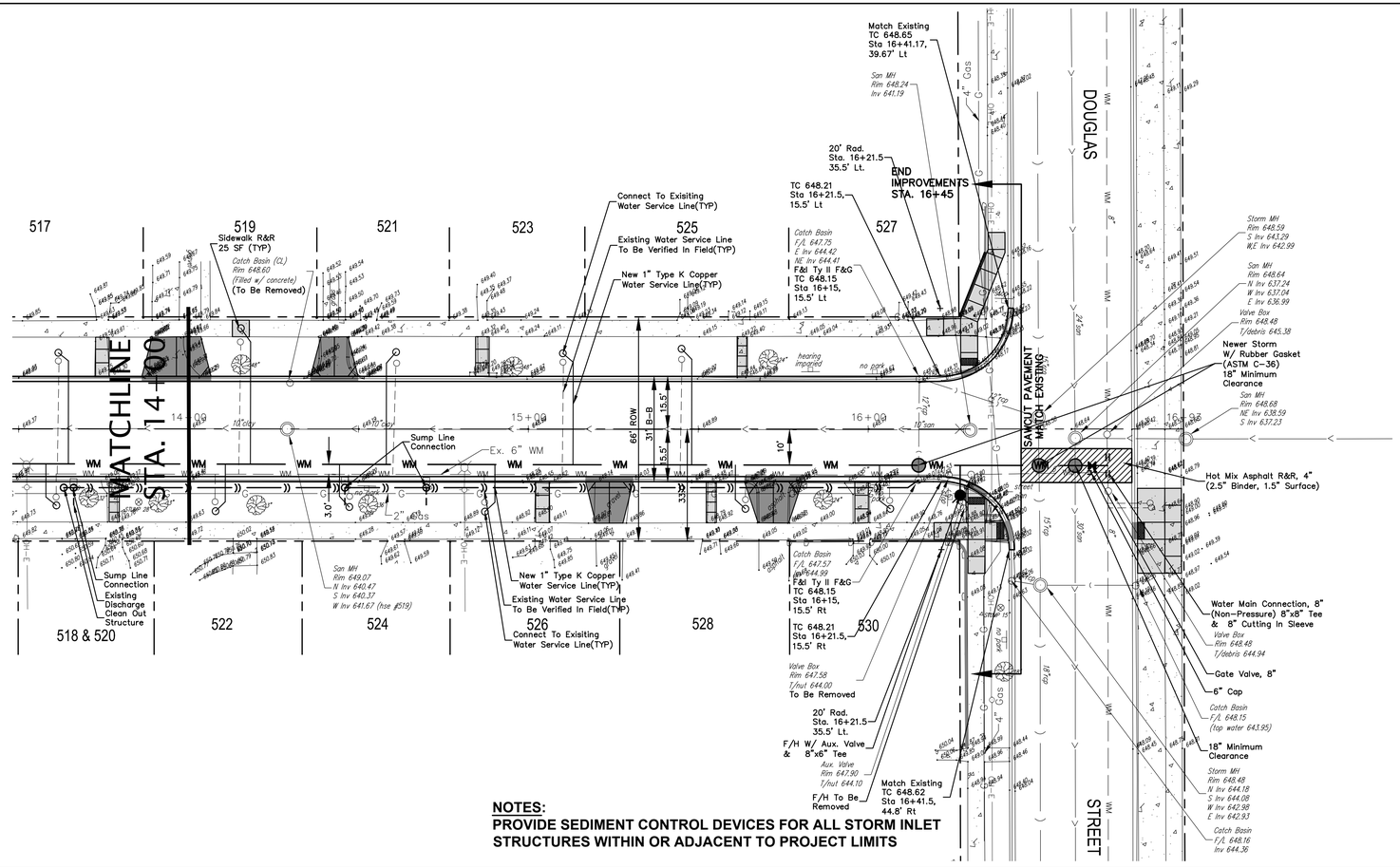
CITY OF JOLIET | ENG: M.S.S. | DATE: April 2022 | WALSH AVENUE

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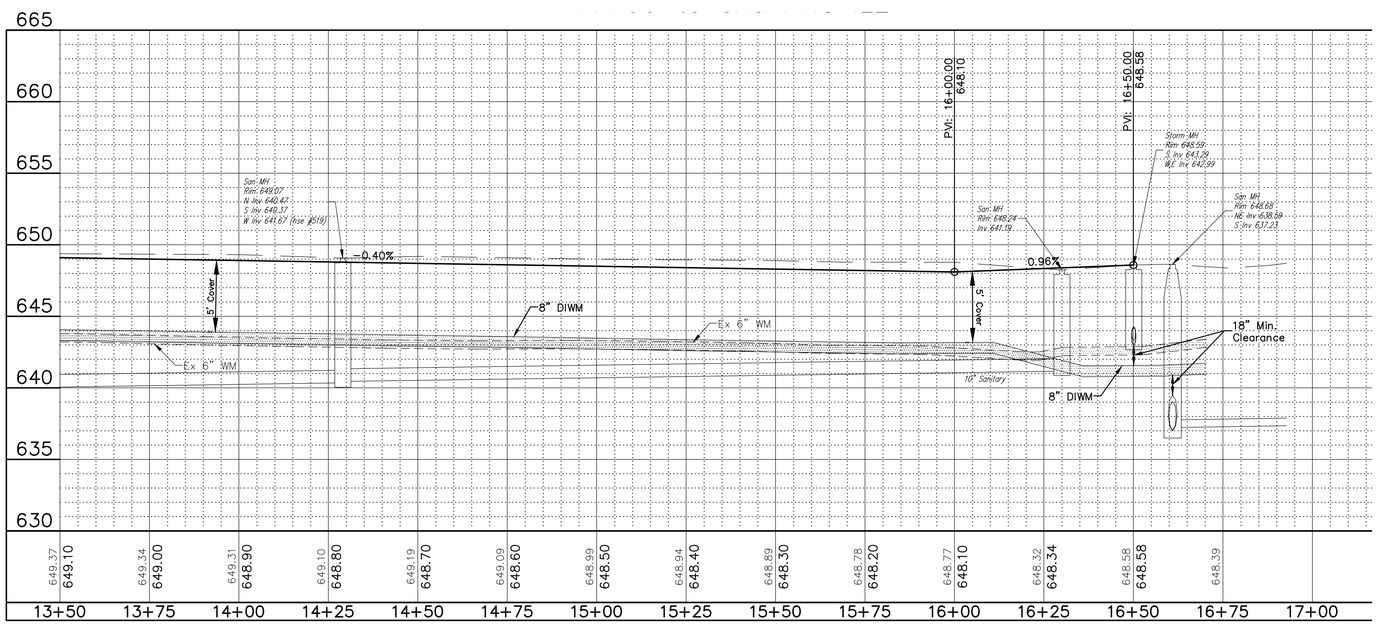
BENCHMARK:

BM 1: NW BOLT ON FIRE HYDRANT NE CORNER of WALSH & TAYLOR
ELEVATION 648.09

BM 2: ARROW BOLT ON FIRE HYDRANT SE CORNER of WALSH & DOUGLAS
ELEVATION 650.76



NOTES:
PROVIDE SEDIMENT CONTROL DEVICES FOR ALL STORM INLET STRUCTURES WITHIN OR ADJACENT TO PROJECT LIMITS

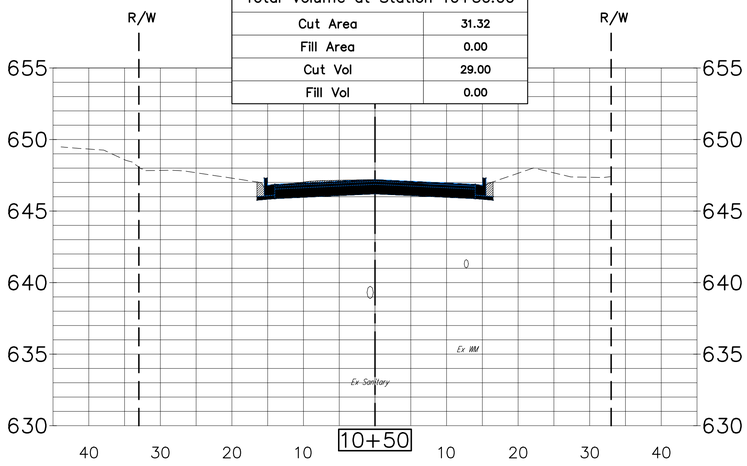


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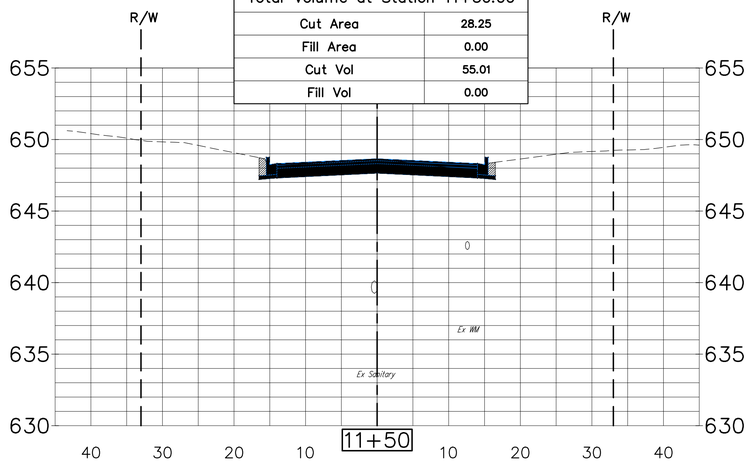
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SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

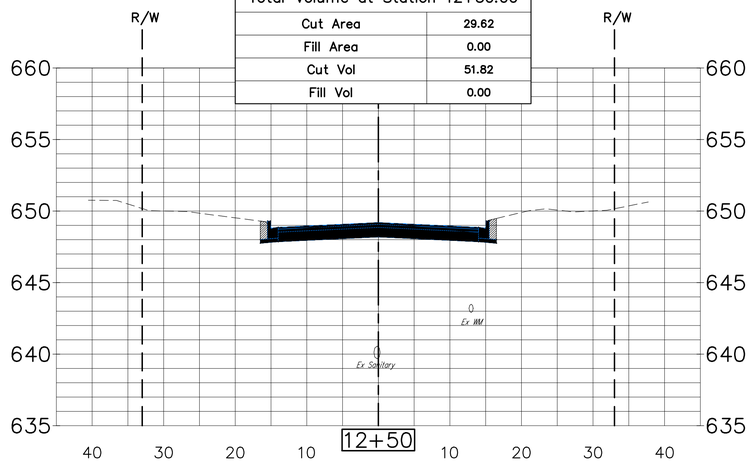
Total Volume at Station 10+50.00	
Cut Area	31.32
Fill Area	0.00
Cut Vol	29.00
Fill Vol	0.00



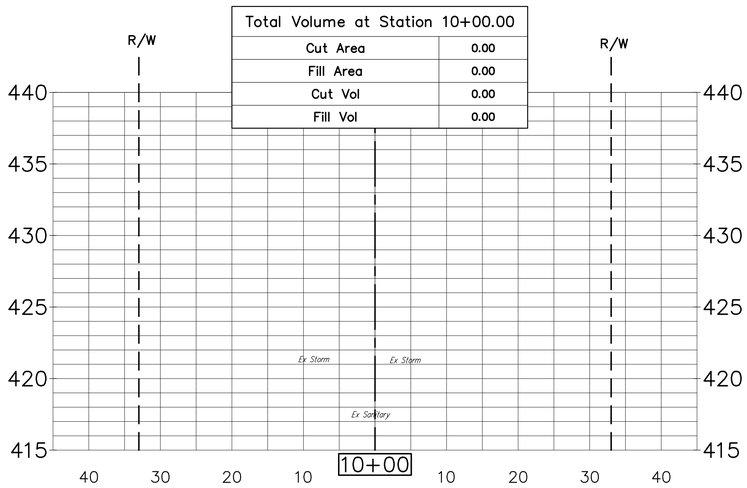
Total Volume at Station 11+50.00	
Cut Area	28.25
Fill Area	0.00
Cut Vol	55.01
Fill Vol	0.00



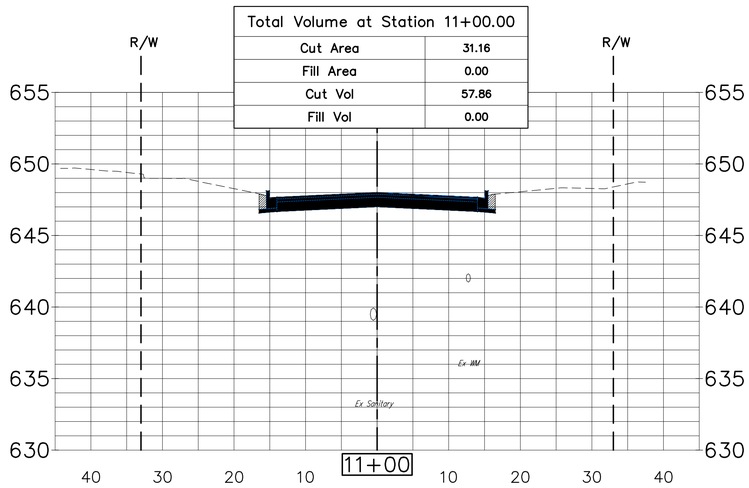
Total Volume at Station 12+50.00	
Cut Area	29.62
Fill Area	0.00
Cut Vol	51.82
Fill Vol	0.00



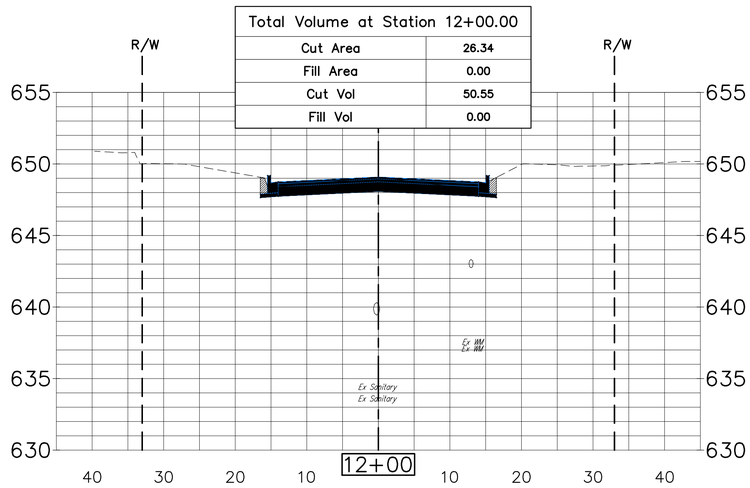
Total Volume at Station 10+00.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00



Total Volume at Station 11+00.00	
Cut Area	31.16
Fill Area	0.00
Cut Vol	57.86
Fill Vol	0.00



Total Volume at Station 12+00.00	
Cut Area	26.34
Fill Area	0.00
Cut Vol	50.55
Fill Vol	0.00



CITY OF JOLIET

ENG:	M.S.S.
DATE:	Feb 2022

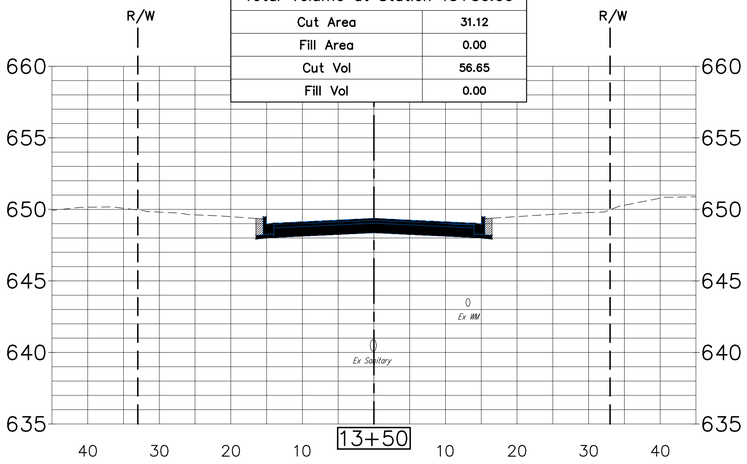
WALSH AVENUE

SHEET 6

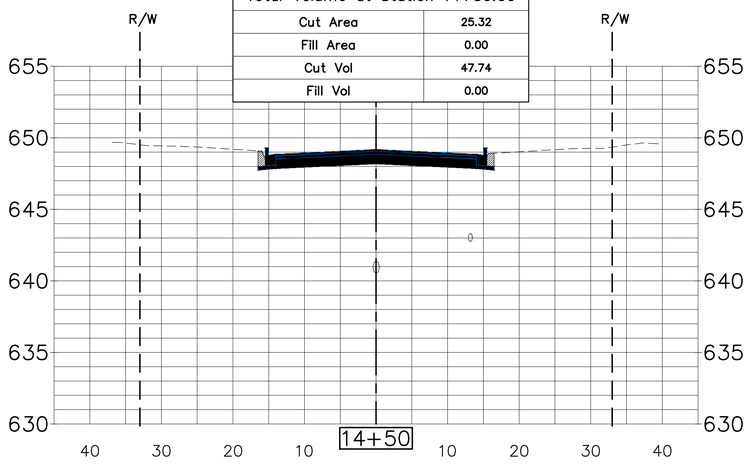
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SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

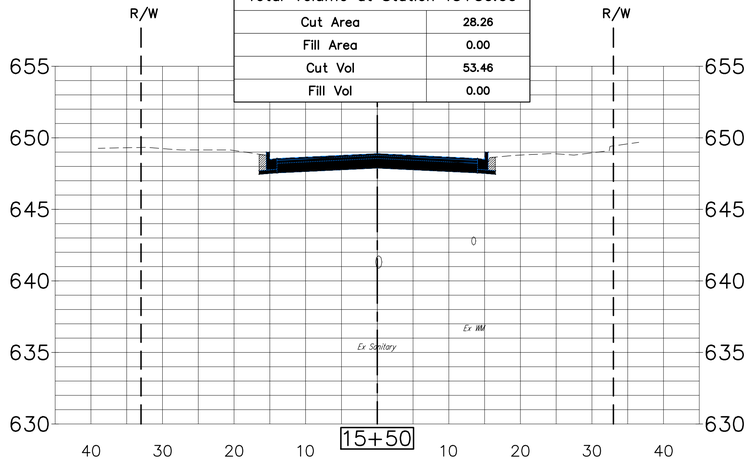
Total Volume at Station 13+50.00	
Cut Area	31.12
Fill Area	0.00
Cut Vol	56.65
Fill Vol	0.00



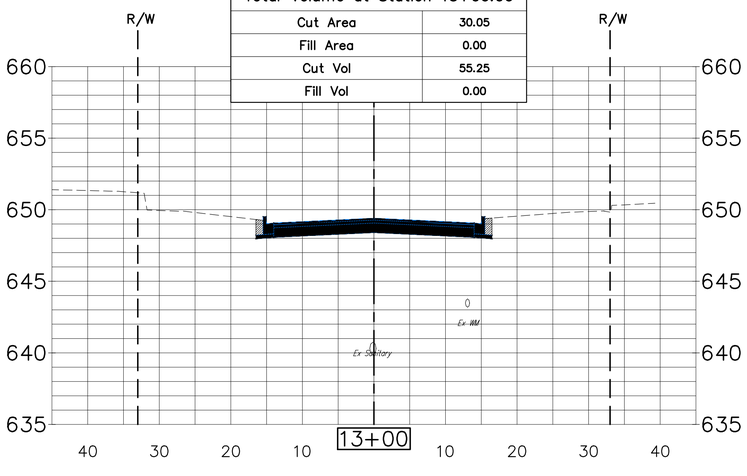
Total Volume at Station 14+50.00	
Cut Area	25.32
Fill Area	0.00
Cut Vol	47.74
Fill Vol	0.00



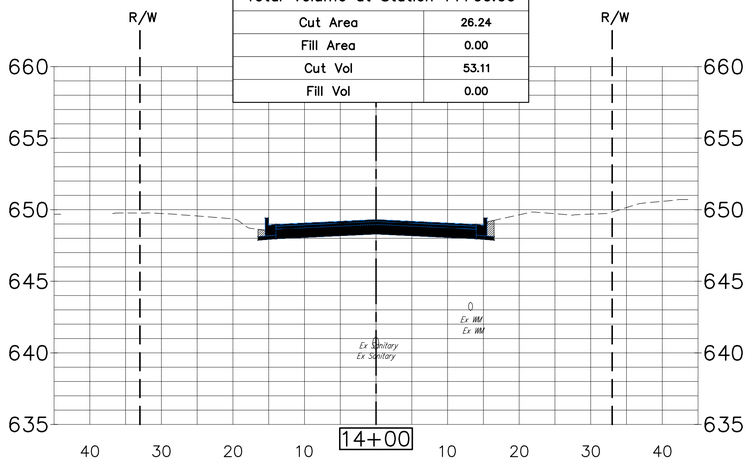
Total Volume at Station 15+50.00	
Cut Area	28.26
Fill Area	0.00
Cut Vol	53.46
Fill Vol	0.00



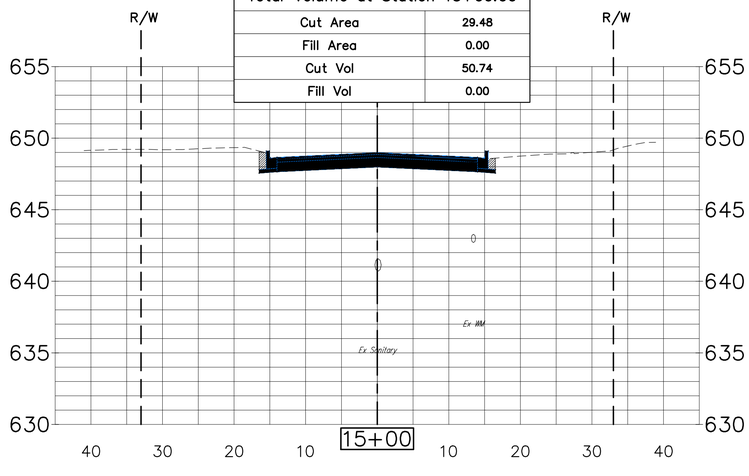
Total Volume at Station 13+00.00	
Cut Area	30.05
Fill Area	0.00
Cut Vol	55.25
Fill Vol	0.00



Total Volume at Station 14+00.00	
Cut Area	26.24
Fill Area	0.00
Cut Vol	53.11
Fill Vol	0.00



Total Volume at Station 15+00.00	
Cut Area	29.48
Fill Area	0.00
Cut Vol	50.74
Fill Vol	0.00



CITY OF JOLIET

ENG:	M.S.S.
DATE:	Feb 2022

WALSH AVENUE

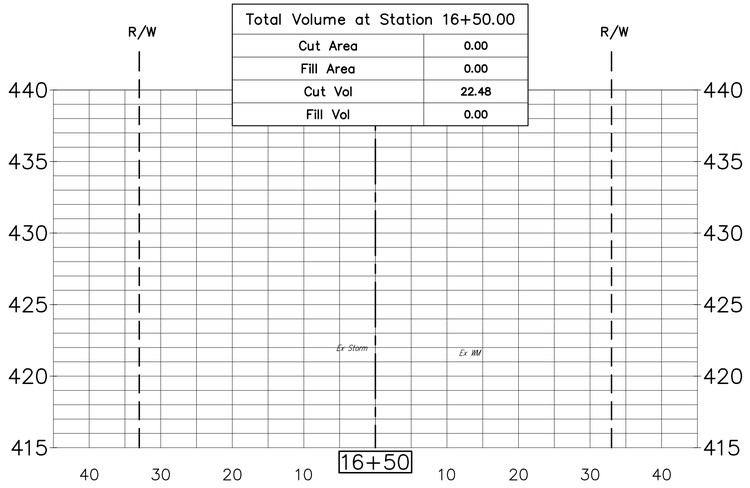
SHEET 7

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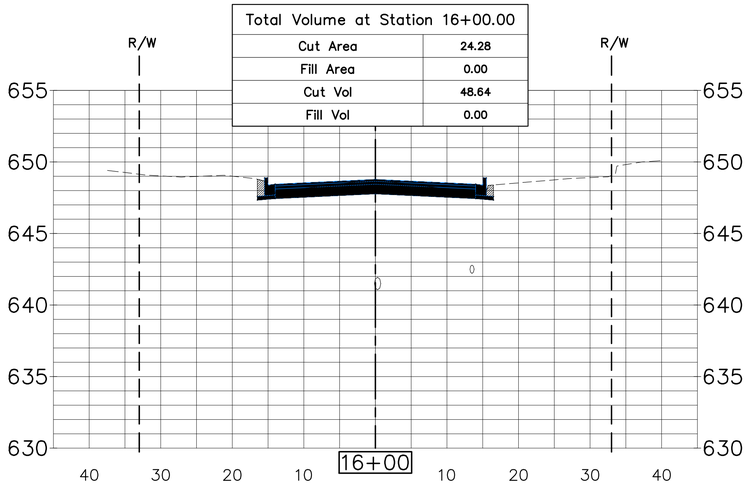
0 10' 20'

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

Total Volume at Station 16+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	22.48
Fill Vol	0.00

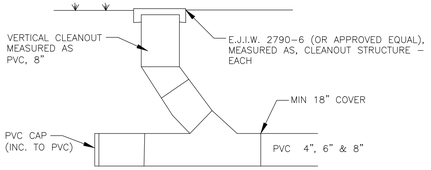


Total Volume at Station 16+00.00	
Cut Area	24.28
Fill Area	0.00
Cut Vol	48.64
Fill Vol	0.00



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CITY OF JOLIET | ENG: M.S.S. | DATE: Feb 2022 | WALSH AVENUE | SHEET 8



EVERY EFFORT HAS BEEN MADE TO LOCATE SUMP LINES TO BE CONNECTED. HOWEVER, ANY ADDITIONAL LINES DISCOVERED DURING CONSTRUCTION WILL BE CONNECTED AT CONTRACT UNIT PRICES. - AS DIRECTED BY THE ENGINEER.

GENERAL NOTES:
SEWER TO BE AT 1.0% GRADE WHERE POSSIBLE MINIMUM GRADE 0.45%

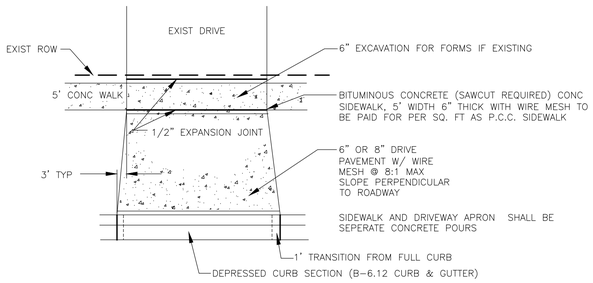
VERTICAL AND HORIZONTAL ALIGNMENT TO BE ACHIEVED WITH 22° BENDS

NO 90° BENDS ANYWHERE IN THE LINE

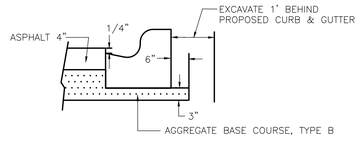
BREAK INTO EXISTING DRAINAGE STRUCTURES AS NEEDED - INC TO PVC

CONNECTION OF SUMP LINES WITH VARIOUS "T"S AND SIZE REDUCERS TO BE MEASURED AS, SUMP LINE CONNECTION - VARIOUS SIZES, EACH.

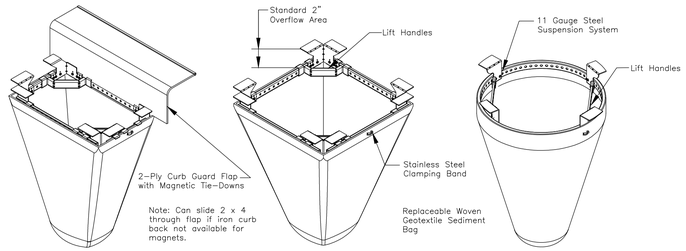
PVC STORM SEWER (PARALLEL PARKWAY SEWER)



P.C.C. DRIVEWAY APPROACH PLAN

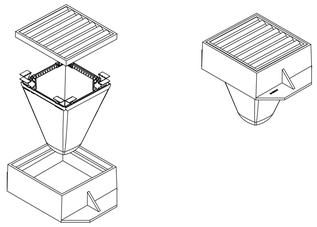


PROPOSED TYPICAL DETAIL
B.6-12 CURB

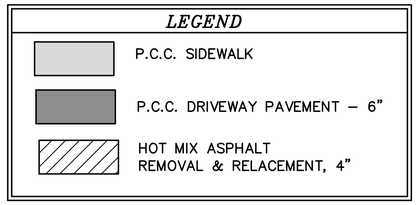


Materials:
1. Framing - 11 gauge steel; corossion resistant
2. Sediment Bag - Woven Geotextile (Type FF or approved alternate); 2 cubic ft typ volume; Stainless Steel locking band securing bag to frame

Installation:
1. Remove grate
2. Drop Inlet Filter onto load bearing lip of casting or concrete structure
3. Replace grate



STORM DRAIN INLET PROTECTION



State Standards

000001-08	Standard Symbols, Abbreviations and Patterns
424001-11	Perpendicular Curb Ramps For Sidewalks
604051-04	Frame & Grate Type 11
606001-08	Conc. Curb T-B & Comb Curb & Gutter
701501-06	Urban Lane Closure, 2L, 2W, Undivided
701801-06	Sidewalk, Corner or Crosswalk Closure
701901-08	Traffic Control Devices
B.L.R. 22-7	Typical Application of Traffic Control Devices for Construction on Rural Local Highways

GENERAL NOTES

1. The cost of any labor or materials necessary in connecting existing drain tiles or storm sewer to proposed drainage structures, or in connecting proposed storm sewers to existing drainage structures shall be considered incidental to the proposed drainage structures or storm sewers.

2. The location of underground utilities on the plans represents the best knowledge of the City and the indicated adjustments or reconstructions are considered to be reasonably accurate. It shall be the Contractor's responsibility, as detailed in Section 107.39 of the Standard Specifications, to verify locations of underground utilities before starting construction operations. The Contractor shall indemnify the City, its Officers and employees against all claims due to damage to corporate or private property resulting from his construction operations as described in Articles 107.20 and 107.26 of the Standard Specifications. The Contractor shall make his own investigation to determine the existence, nature and location of all utility lines and appurtenances within the limits of improvements. The Contractor will be responsible for performing exploratory excavation to expose any underground utility - including services - with a City representative present and identifying all possible utility conflicts within the proposed public improvement prior to excavating for the roadway. The Contractor shall backfill these exploratory excavation sites with trench backfill and shall maintain the roadway until all the identified utility conflicts are resolved. The cost of the exploratory excavation for underground utilities shall be considered incidental to the contract. No other compensation shall be allowed for this work. The Contractor will be required to cooperate with all Contractors, Utility companies, and the City of Joliet, involved with the removal, temporary relocation, reconstruction, or abandonment by these agencies of any and all services or facilities owned or operated by them within the limits of the improvement. Before doing any work which will damage, disturb, or leave unsupported or unprotected any utility lines encountered, the Contractor shall notify the respective owner thereof, who will make arrangements for relocating, adjusting, or otherwise maintaining or abandoning services or lines that fall within the limits of the proposed construction without cost to the Contractor, including the removal of cables, manhole covers, and other appurtenances which the owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. No extra compensation will be allowed the Contractor for any expenses incurred by complying with these requirements, or because of delays, inconvenience, or interruptions in his work resulting from the failure of any City or Utility Company to remove, relocate, reconstruct, or abandon their services when required by the Contractor's operations. An extension of time may be granted to the extent the Contractor's operations were affected. The Contractor shall be responsible for coordinating his work with that of these agencies as to ensure that this improvement is not delayed because of necessary changes in the existing utilities, public or private.
   The Contractor shall take whatever precautions which may be necessary to protect the property of various utilities which may be located underground or above ground, at or adjacent to the site of this improvement. The contractor will be required to repair or replace at his own expense, or bear the cost of having the utility repair or replace any public/private utility which has been damaged through his efforts. The procedure and specifications of repair will be in accordance with the regulations and/or policy of the utility. The Utility shall be given notice by the Contractor to locate and identify all of their installations at the site of this improvement so that this improvement is not delayed because of necessary changes in the existing utilities, public or private.

3. The Contractor shall proceed with caution for any excavation and preparation of the trench so that the exact location of underground structures may be determined. Prior to proceeding with any excavation, the contractor shall contact all utility companies in the area to aid in locating their underground services.
   The Contractor shall contact the involved utility companies not less than 48 hours prior to beginning construction. The majority of these utilities may be be contacted through J.U.L.I.E. at (800) 892-0123. In addition, the Contractor shall be responsible to contact the City of Joliet Utilities 48 hours prior to beginning the construction at (815)724-4220. It shall remain the Contractor's responsibility to contact all utilities.
   The Contractor shall take all reasonable precautions against damage to existing utilities. However, in the event of a break in an existing watermain, gas main, sewer, or underground cable, he shall immediately notify the responsible official of the organization operating the utility interrupted. The Contractor shall lend all possible assistance in restoring services and shall assume all cost, charges, and claims connected with the interruption and repair of such services. Privately owned utilities requiring adjustment will be adjusted by the utility company involved. No additional compensation will be allowed for any delays or inconveniences caused the Contractor due to said adjustments.

4. Trench backfill must be provided under all roadway surfaces and driveways and as directed by the Engineer.

5. Existing sidewalk, pavement, driveway pavement and curb and gutter damage due to the Contractor's operations shall be replaced at the expense of the Contractor.

6. For all manholes, catch basins, and inlets, the distance shown on the plans is from the baseline to the center of the structure, except structures in the curb line where the distance is shown to the back of curb.

7. All existing valve vaults and manholes indicated on the plans or as directed by the Engineer shall be covered with a Contractor-supplied steel plate at all times during construction. Upon preparation for binder course, the frame shall be installed to the surface elevation as shown on the plans or as directed by the Engineer and set in concrete according to the Standard Specifications.

8. This project is to be built according to the City of Joliet Special Provisions and General Conditions adopted Jan 1, 2013 unless otherwise stated in the contract documents.

9. Where section or sub-section monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers and monuments until the owner and an authorized surveyor or agent has witnessed or otherwise referenced their location. However, if damaged irons occur, it is the responsibility of the Contractor to restore the marker per Registered Land Surveyor at his own expense.

10. It shall be the responsibility of the Contractor to construct each inlet or catch basin at the proper location so that the frame or grate matches the curb line as shown in the applicable Standard.

11. All proposed manholes, catch basins and inlets shall be fabricated to include no less than four (4) inches of adjusting rings to meet the required grade.

12. The cost of the removal and disposal of the asphalt shall be considered incidental to roadway excavation.

13. All top of curb (TOC) elevations, excluding depressed curb, are 0.1' above the listed C/L elevations unless otherwise noted.

14. All structure rim elevations located in the curb line are top of curb elevations unless otherwise noted.

15. All grassed areas disturbed during construction operations shall be seeded or sodded in accordance with sections 642 and 644 of the Standard Specifications, as indicated in the plans.

16. Quantities for adjusting sanitary sewer services and water service lines have been added to the summary of quantities and the contract to provide a unit price bid for the item, and are to be used only if field conditions require their use, as approved by Engineer.

17. The Contractor shall protect existing or new utilities by methods approved by the Engineer, and he shall brace and support the utilities properly to prevent settlement, displacement, or damage to the utilities. The protection of the utilities as specified herein, will not be paid for separately, but shall be considered incidental to the contract.

18. Existing street signs, markers stop signs, and all other roadway signs shall be removed and reset by the Contractor as per current MUTCD standards and as directed by the Engineer. This work will not be paid for directly, but shall be considered incidental to the contract. Signs and posts damaged by the contractor shall be replaced by him at his own expense.

19. Sidewalk ramps for the handicapped shall be constructed at locations where existing or proposed sidewalks abut the street returns within the limits of this improvement in accordance with Highway Standard 424001-07 of the State of Illinois. This work will not be paid for separately, but shall be considered incidental to the proposed sidewalk.

20. Timeliness of work: The contractor shall perform all work in a timely, orderly, and diligent manner. The Contractor shall cooperate with and conform to the request of the City to expedite particular portions of the work insofar as to complete certain phases of work in a timely manner. Work shall be completed within the timeframe as outlined in the Supplemental Special - WORKING DAYS (BDE) 80071. Contractor shall submit a PROJECT SCHEDULE showing coordination of sub-contractors and sequencing of work. Construction of the concrete curb & gutter shall begin within five (5) working days of the completion of the roadway grading and subbase preparation. Upon completion of the concrete curb & gutter, construction of the driveway aprons shall begin, and remain continuous, such that driveways shall not remain inaccessible for more than 20 working days, as measured from the date of completion of roadway excavation. If the contractor cannot meet these requirements, he shall provide temporary stone access to all affected driveways. No additional compensation will be allowed for providing, placing, and removing all temporary access stone. The City reserves the right to place and remove the temporary stone and deduct the cost from the construction contract for contractors not meeting this requirement.

21. Protection of property and surface structures: Trees, shrubbery fences, poles, right-of-way pins and all other property and surface structures shall be protected during construction operations unless the Engineer authorizes their removal for purposes of construction. Any fences, poles, or other manmade surface improvements, which are moved or disturbed by the Contractor shall be restored to the original conditions, after construction is completed, at the Contractor's expense. Any trees, shrubbery, or other vegetation, which are approved for removal by the Engineer in order to facilitate construction operations, shall be removed completely, including stumps and roots, by the Contractor. Responsibility for any damage or claims for damage caused by construction operations to shrubbery or other landscape improvements, which were not authorized for removal by the Engineer, shall be assumed by the Contractor.

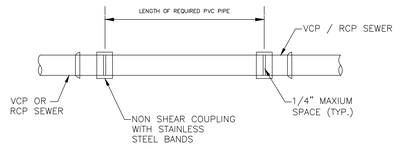
22. Work to be Done by Others: The City of Joliet Public Works and Utilities, Com-Ed, NICOR, At&T, and others may be adjusting their facilities during construction of this section. In such event, it will be necessary for the Contractor to cooperate with the various organizations and the City while they are doing this work. All street lighting/utility poles and luminaries required to be moved shall be relocated and wired by the owner of the pole as per their franchise agreement. No compensation shall be allowed to the Contractor for street lighting/utility pole relocation work.

23. In accordance with Article 105.09 of the "Standard Specifications", the Contractor shall furnish to the City of Joliet Public Works Office, 150 W. Jefferson Street, at his/her expense, construction layout stakes for the project. The material for all layout stakes and lathe shall be oak, Layout stakes (hubs) shall be 2"x2"x15". Lathe shall be four (4') feet in length. Hubs shall be provided at a rate of one bundle per 300 linear feet of project length for curb and gutter construction and at a rate of one bundle per 600 linear feet of project length for all other construction projects. Lathe shall be provided at a rate of one bundle per 600 linear feet of project length for all construction. The cost incurred by the Contractor in complying with this requirement shall be considered incidental to the contract.

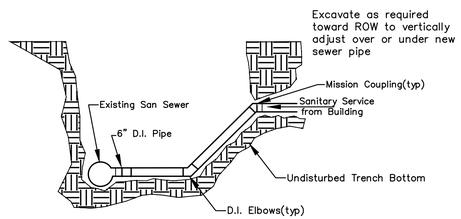
2022 ROADWAY IMPROVEMENTS
WALSH AVENUE(Taylor St - Douglas St)
MFT SEC: 22-00547-00-FP

SCALE: NONE | DATE: April 2022 | SHEET 9 OF 10
CHECKED BY: MT | DESIGNED BY: MSS | DRAWN BY: KLK

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)-724-4200



CONNECTING SEWER PIPES OF SIMILAR & DISSIMILAR MATERIAL
NO SCALE

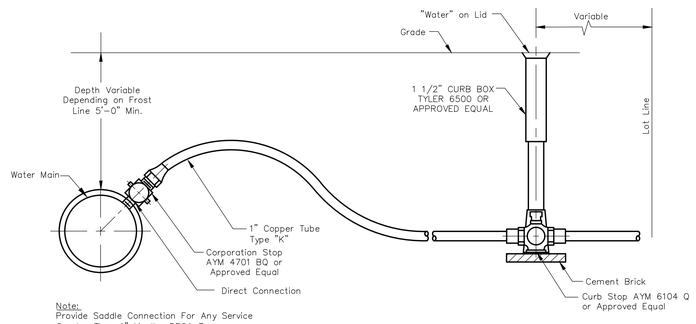


TYPICAL DETAIL SANITARY SEWER SERVICE

NO SCALE

SLOPING LATERAL TRENCH – ANY DEPTH

MAXIMUM SLOPE SHALL BE LESS THAN 1:1 WHEN IT IS NECESSARY TO SECURE BEDDING IN UNDISTURBED EARTH.



Note:
Provide Saddle Connection For Any Service Greater Than 1" Mueller DB2A Type.

TYPICAL WATER SERVICE DETAIL
No Scale

SANITARY / WATER MAIN GENERAL NOTES

1. Division II, III and IV, and the applicable standard drawings of the "Standard Specifications for Water and Sewer Main Construction in Illinois" Dated July, 2009, shall govern the construction of the proposed improvement, except as modified or revised, and/or amended as shown on the plans, or called for on the contract document, and/or as ordered by the engineer.

   All the references in Division II, III and IV to Division I of the Standard Specifications shall be deleted and reference made to the applicable sections of the contract documents.

   Paving improvements shall be constructed in conformance with standard Specifications for Road and Bridge Construction Adopted January 1, 2012 BY Illinois Department of Transportation.

2. The maximum allowable rate of infiltration shall not exceed 200 gallons per 24 hours per inch–diameter per mile of sewer pipe.

3. Sanitary sewer pipe shall be PVC–DSR26, unless stated otherwise, in accordance with ASTM D–3034 with flexible electrometric seals for ASTM D–3212.

4. Where ductile iron pipe is used for sanitary sewer, the pipe shall be in accordance with ANSI A–21.51 And the joints in accordance with A–21.11.

5 All sanitary sewer shall be constructed on a minimum bedding of 4" embedment material Class II per ASTM D–2321.

6. All proposed sanitary sewer, water main and services under and within 2' of pavement or sidewalk shall be backfilled with trench backfill which shall be crushed stone, gradation CA–7 or CA–6.

7. "Band Seal" or similar flexible type coupling shall be used at all points of change in sanitary sewer pipe material.

8. When connecting to the existing sanitary sewer, if no wye, tee or manhole is existing, one of the following methods shall be used:

   A. Circular saw–cut sewer main by proper tools ("Sewer–Tap" machine or similar) and proper installation of hub–wye or hub–tee saddle.

   B. With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "BAND–SEAL" or similar coupling to hold it firmly in place.

9. Horizontal and vertical separation of water mains and sewer lines shall be done in accordance with Section 41–2.01B and Section 41–2.01C of the "Standard Specification for Water and Sewer Main Construction in Illinois" Adopted July 2009.

10. The locations of existing underground utilities, such as water mains, sewer, gas lines, etc., as shown on the plans have been determined from the best available information and is given for the convenience of the contractor. However, the engineer and owner do not assume responsibility for the accuracy of the locations shown. It shall be the contractor's responsibility to contact all utility companies and their facilities shall be located prior to any work.

11. Wherever obstructions not shown on the plans are encountered during the progress of the work and interfere to such an extent that an altercation in the plans is required, the engineer shall be notified prior to any changes.

12. As–Built drawings shall be prepared by the contractor and submitted to the engineer as soon as the project is completed. Any change in the length, location or alignment shall be shown in red.

13. The City of Joliet must be notified at least two working days prior to commencement of work.

14. All water main shall be ductile iron cement lined Class 52 with rubber gasket push–on joints and 8 MIL polywrap in accordance with ANSI A–21.51 unless specified otherwise.

15. All fire hydrants shall be designed for a working pressure of 150 pounds per square inch and shall conform in workmanship, design and material to AWWA Standard C–502. Hydrant hose nozzle, pumper nozzle and type shall conform to the City of Joliet Standard.

16. Gate valves shall be resilient wedge with non–rising stem designed for not less than 150 psi working pressure and shall be tested for leakage and distortion under a hydraulic pressure of not less than 300 PSI. The minimum requirements for all gate valves shall, in design, material and workmanship, conform to the standards of AWWA C–500. All materials used in the manufacture of gate valves be equal to the City of Joliet Standards with ends as required for specified joints.

17. All fittings shall be ductile iron C110 Full Body mechanical joint to be provided with set screw type retainer glands and rubber gaskets in accordance with ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Retainer glands are required on all elbows, tees, crosses, valves, hydrants and auxiliary valves. No concrete thrust blocks shall be allowed.

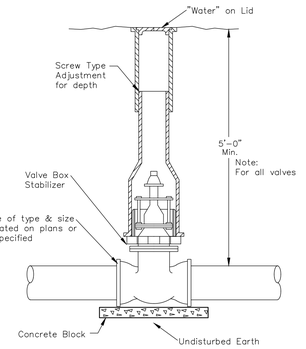
18. Connections to existing manholes to be made by corning a hole through the manhole sidewall and installing an A–LOC OR KOR–N–SEAL type boot.

19. Leakage testing and deflection testing shall be performed in accordance with Section 31–1.11B (3 & 4) of the "Standard Specifications for Sewer and Watermain Construction in Illinois", Latest Edition. Vacuum testing of the manholes shall be performed in accordance with ASTM C–1244.

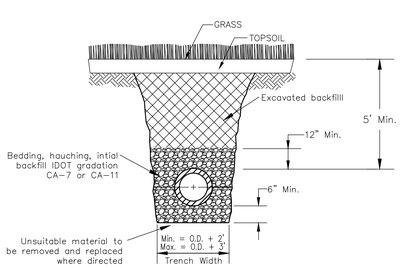
20. Disinfection and pressure testing shall be prepared per the standard specifications for sewer and water.

21. Erosion control will be constructed in accordance with standard specifications for soil erosion and sediment control as contained in IEPA/WPC/87–012 or Current Edition.

22. It shall be the Contractor's duty and responsibility to ascertain and execute the means, methods and sequence of construction in accordance with the plans, specifications and other contract documents. This shall include, but shall not be limited to,the exclusive duty and responsibility to provide for workplace safety and worker supervision. It shall exclusively be the Contractor's duty and responsibility to investigate and ascertain the current physical state and operational status of the City's water supply system and the City's sanitary sewer system, including whether a water main or other vessel is operational, contains water, is pressurized or is otherwise safe to alter. Any information provided by the City, or its employees and consultants, regarding the state of its water supply and sanitary sewer systems is provided as a courtesy to the Contractor but is not warranted to be true and may not be relied on by the Contractor in satisfaction of, or to diminish, its exclusive duty to ascertain and execute the means, methods and sequence of construction in accordance with the plans, specifications and other contract documents and its exclusive responsibility to provide for workplace safety and worker supervision.

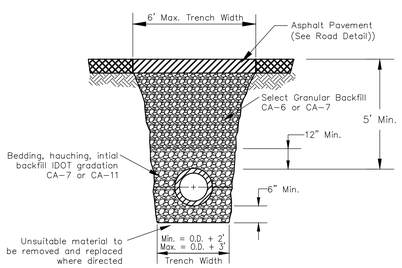


VALVE AND VALVE BOX
No Scale



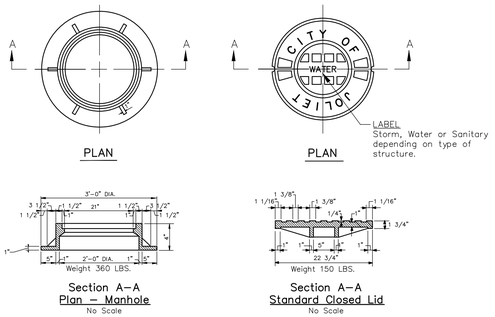
Structural Locations: Trench backfill mechanically compacted to 95% standard proctor density

TRENCH DETAIL GRASS AREAS
WATER MAIN
No Scale

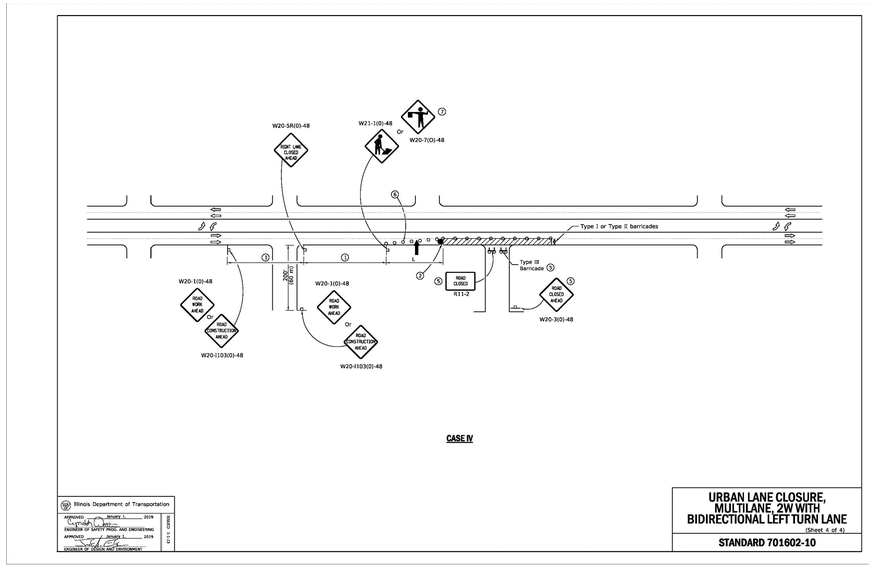


Structural Locations: Trench backfill mechanically compacted to 95% standard proctor density

TRENCH DETAIL PAVED AREAS
WATER MAIN/ SANITARY
No Scale



FRAME AND LIDS TYPE 1
No Scale

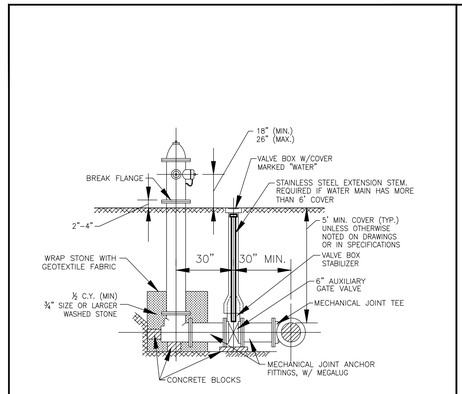


CASE IV

Illinois Department of Transportation
APPROVED: January 1, 2019
ENGINEER OF SAFETY, TRAFFIC AND ENGINEERING
APPROVED: January 1, 2019
DIRECTOR OF HIGHWAY SAFETY AND ENFORCEMENT

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
(Sheet 4 of 4)

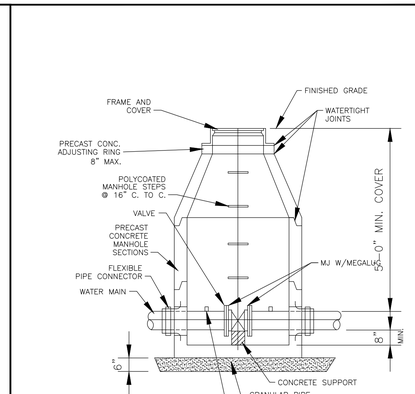
STANDARD 701602-10



NOTES:

1. CLOW MEDALLION, E.J. 5BR250, OR MUELLER CENTURION A423 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
2. HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
3. USE SWIVEL TEE AS CALLED OUT ON PLANS. 30" MINIMUM SEPARATION DOES NOT APPLY WHEN USING SWIVEL TEES.

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
FIRE HYDRANT DETAIL
WTR–03
DATE: MARCH 2019



NOTES:

1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
2. USE 4'–0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'–0" FOR SIZES 12" OR GREATER
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
WATER VALVE VAULT DETAIL
WTR–01
DATE: MARCH 2019

2022 ROADWAY IMPROVEMENTS
WALSH AVENUE(Taylor St – Douglas St)
MFT SEC: 22–00547–00–FP

CHECKED BY: JEE | SCALE: NONE | SHEET 10 OF 10
DESIGNED BY: RYL | DATE: April 2022
DRAWN BY: KLK

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)–724–4200