

CITY OF DULUTH FIRE HALL #1 UPPER LOT BITUMINOUS REPLACEMENT



MN. TOLL FREE 1-800-252-1166



GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
(AVAILABLE AT: <http://www.dot.state.mn.us/tecsup/>)

THE 2360 PLANT MIXED ASPHALT PAVEMENT COMBINED 2360/2350 (GYRATORY/MARSHALL DESIGN) SPECIFICATION FOR 2012 CONSTRUCTION SEASON SHALL APPLY.
(AVAILABLE AT: <http://www.mrr.dot.state.mn.us/pavement/bituminous/bituminous.asp>)

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED FEBRUARY 2011.
(AVAILABLE AT: <http://www.dot.state.mn.us/trafficeng/otepub/fieldmanual2007/index.html>)

THE CURRENT EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY.

BASIS OF BEARING / CONTROL

BEARINGS BASED ON THE ST. LOUIS COUNTY TRANSVERSE MERCATOR COORDINATE SYSTEM OF 1996.

POINT NAME:	NORTHING:	EASTING:	ELEVATION:	DESCRIPTION:
BENCHMARK	3341401.6400'	4843028.4570'	713.73'	CORNER OF WALL
FOUND MONUMENT	3341494.2870'	4842934.7110'	726.88'	MONUMENT
CONTROL POINT #1	3341425.6330'	4842928.4440'	727.89'	CONTROL POINT
CONTROL POINT #2	3341434.6550'	4842934.4400'	726.28'	CONTROL POINT
CONTROL POINT #3	3341400.3400'	4843018.8220'	711.55'	CONTROL POINT

SHEET INDEX

SHEET NAME:	DESCRIPTION:
C1	TITLE SHEET
C2	GENERAL NOTES, LEGEND, & DEFINITIONS
C3	DETAILS
C4	EXISTING CONDITIONS & REMOVALS PLAN
C5	SITE PLAN
C6	GRADING PLAN
C7	EROSION CONTROL PLAN

UTILITY DETAIL LEVEL

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL B. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
DMD, C. BOFF
Date: 7-2-2014
Reg. No.: 40926

TITLE SHEET

John Ivey Thomas Associates Inc. Architects, 413 East Superior Street, Duluth, Minnesota 55802 (218) 722-9271
City of Duluth Fire Station #1 Upper Lot Bituminous Replacement - Project #14-21-RH
602 West Second Street
Duluth, MN

Job No: 2542 Date: 7-2-2014
Drawn By: TTPP
Sheet: C1
of: 1

LEGEND			
DESCRIPTION	PROPOSED	EXISTING	DEMOLITION
PROPERTY LINETYPES & SYMBOLS			
SITE PROPERTY LINE			
RIGHT OF WAY			
EASEMENT			
LOT LINE			
SECTION LINE			
CONTROL POINT/MONUMENT			
SOIL BORING			
CALCULATED CORNER FOUND MONUMENT W/O CAP			
FOUND MONUMENT W/ CAP			
SITE LINETYPES & SYMBOLS			
CENTERLINE			
CURB AND GUTTER			
SINGLE CURB			
EDGE OF PAVEMENT			
STRIPING WHITE			
STRIPING YELLOW			
WOOD POST FENCE			
BUILDING			
SAW CUT			
WALL			
CONCRETE			
BITUMINOUS			
SIGN			
TOPOGRAPHY LINETYPES & SYMBOLS			
MAJOR CONTOUR			
MINOR CONTOUR			
FLOW LINE			
GRADE BREAK			
CUT			
FILL			
LANDSCAPE LINETYPES & SYMBOLS			
SOCK			
GRAVEL / ROCK CONSTRUCTION ENTRANCE			
SOD			
DECIDUOUS TREE			
STORM SEWER LINETYPES & SYMBOLS			
STORM SEWER MANHOLE			
CATCH BASIN/SQUARE GRATE			
CONCENTRIC CIRCLE GRATE			
STORM LINE			
SANITARY SEWER LINETYPES & SYMBOLS			
SANITARY SEWER MANHOLE			
SANITARY LINE			
GAS SERVICE LINETYPES & SYMBOLS			
GAS LINE			
ELECTRICAL UTILITY LINETYPES & SYMBOLS			
ELECTRICAL JUNCTION BOX			
UTILITY POLE			
TRANSFORMER			
MANHOLE			
LIGHT POLE			
UNDERGROUND ELECTRIC LINE			
FIBER OPTIC UTILITY LINETYPES & SYMBOLS			
FIBER OPTIC LINE			

DEFINITIONS	
MNDOT	MINNESOTA DEPARTMENT OF TRANSPORTATION
*x	NUMERIC OR ALPHABETIC REFERENCE
BA	BEGIN ALIGNMENT
C	CUT SLOPE LIMIT
CHL	CHORD LENGTH
CHD	CHORD DIRECTION
CL	CENTERLINE / CURVE LENGTH
CO	SANITARY SEWER CLEANOUT
D	STORM PIPE
E	EAST
EA	END ALIGNMENT
EDR	EDGE OF DIRT ROAD
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
F	FILL SLOPE LIMIT
FH	FIRE HYDRANT
FL	FLOW LINE
G	GAS
GB	GRADE BREAK
HP	HIGH POINT
LP	LOW POINT
OH	OVER HEAD
PC	HORIZONTAL POINT OF CURVATURE
PT	HORIZONTAL POINT OF TANGENCY
R	RADIUS
RE	RADIUS CENTER EASTING
RN	RADIUS CENTER NORTHING
ROW	RIGHT OF WAY
SS	SANITARY SEWER
STM	STORM STRUCTURE / PART
T	TANGENT
TBC	TOP BACK OF CURB
TOE	BOTTOM OF FEATURE OR SLOPE
TOP	TOP OF FEATURE OF SLOPE
T/BIT	TOP OF BITUMINOUS
T/CONC	TOP OF CONCRETE
W	WEST
WV	WATER VALVE

GENERAL NOTES	
GENERAL NOTES	
1.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" CONCURRENT WITH THE PERMIT DATE. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/)
2.	THE CURRENT EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY. (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
3.	CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS.
4.	ANY DIFFERENCES BETWEEN PLANS AND SPECIFICATIONS AND QUESTIONS REGARDING INTERPRETATIONS OF PLANS AND SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OR OWNER. THE CONTRACTOR WILL NOT BE PERMITTED TO TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS. THE GENERAL INTENT AND MEANING WILL GOVERN. THE ENGINEER OR OWNER WILL PROVIDE FULL INSTRUCTIONS WHEN CHANGED CONDITIONS, ERRORS OR OMISSIONS ARE DISCOVERED BY THE CONTRACTOR.
5.	THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "GSOC" AT (1-800-252-1166) TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
6.	ALTHOUGH SUCH WORK MAY NOT BE SPECIFICALLY NOTED ON THESE PLANS, CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTARY OR MISCELLANEOUS FITTINGS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION.
7.	ALL CONCRETE STRUCTURES SHALL CONFORM TO SPEC 2461 STRUCTURAL CONCRETE OF MINNESOTA MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION CURRENT EDITION CONCURRENT WITH THE PERMIT DATE. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Materials-Lab-Supplement.pdf)
8.	ALL CONCRETE CURB SHALL CONFORM TO SPEC 2531 CONCRETE CURBING OF MINNESOTA MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION CURRENT EDITION CONCURRENT WITH THE PERMIT DATE. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Materials-Lab-Supplement.pdf)
9.	EQUIPMENT OR MATERIALS SPECIFIED IN THESE PLANS HAVE BEEN SPECIFIED BECAUSE THEY MEET THE PARAMETERS NEEDED TO PERFORM A CERTAIN FUNCTION. THERE MAY BE OTHER MANUFACTURERS OF SIMILAR EQUIPMENT OR MATERIALS THAT CAN BE USED IN LIEU OF THE ONES SPECIFIED HEREIN. ANY MODIFICATIONS TO SAID EQUIPMENT OR MATERIALS NEED TO BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO THEIR BEING CONSIDERED FOR USE.
10.	BY SUBMISSION OF HIS BID PROPOSAL THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS THOROUGHLY EXAMINED THE LOCATION OF THE WORK TO BE PERFORMED, IS FAMILIAR WITH LOCAL CONDITIONS, AND HAS THE RESOURCES TO LAYOUT AND CONSTRUCT THESE PLANS.
11.	THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL SURVEY CONTROL STAKES SET FOR LINE, GRADE, OR CONTROL IN THEIR ORIGINAL LOCATIONS. ANY EXPENSES INCURRED IN REPLACING ANY SUCH SURVEY STAKES WHICH THE CONTRACTOR OR HIS SUBCONTRACTORS MAY HAVE FAILED TO PRESERVE SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
12.	THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING ALL EXISTING UTILITY LINES BEING CONNECTED TO BY VIRTUE OF THESE PLANS. HE/SHE SHALL BE RESPONSIBLE FOR VERIFYING THEIR ELEVATION AND LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL UTILITIES WHETHER BEING CONNECTED TO OR NOT.
13.	ALL WORKMANSHIP AND MATERIALS THROUGHOUT THE JOB SHALL BE OF THE HIGHEST QUALITY. ALL MATERIALS SHALL BE NEW, UNLESS APPROVED BY THE ENGINEER.
14.	CONTRACTOR SHALL AT ALL TIMES COORDINATE WORK WITH OTHER CONTRACTORS INVOLVED WITH ONGOING CONSTRUCTION OF THIS PROJECT.
15.	ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS AND / OR PLANS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
16.	ALL WORK IS TO BE COMPLETED IN A SAFE MANNER IN ACCORDANCE WITH THESE CONSTRUCTION SPECIFICATIONS. ANY DEVIATION THEREFROM MUST BE APPROVED IN WRITING BY THE ENGINEER. INSTALLATION MUST CONFORM WITH THE REQUIREMENTS OF ALL GOVERNMENTAL REGULATING AGENCIES AND THE COST OF CONFORMING TO SUCH REGULATIONS MUST BE INCLUDED IN THE UNIT BID PRICES. EXAMPLES OF SUCH REGULATIONS, WITHOUT ATTEMPTING TO BE INCLUSIVE, ARE: A. SPECIAL COMPACTION AND PAVING FOR STREET CROSSINGS. B. SHORING WHEN REQUIRED BECAUSE OF THE TRENCH DEPTH. C. CLOSING A TRENCH IN THOSE AREAS WHERE NO OPEN TRENCH IS ALLOWED OVERNIGHT. D. BARRICADING AND TRAFFIC CONTROL AS REQUIRED.
17.	ALL REVISIONS TO THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS MUST BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
18.	THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THESE PLANS.
19.	A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CALL "GSOC" AT (1-800-252-1166) PRIOR TO ANY EXCAVATION.
20.	THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
21.	THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THEM WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
22.	NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
23.	THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
24.	PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF WORK AND EXCESS OR DEFICIENCY IN EARTHWORK QUANTITIES, IF ANY. NO CLAIM SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
25.	ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE DIRECTED BY THE PROJECT SPECIFICATIONS.
26.	ALL PAVING AND GRADING CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT OF WAY, ON PRIVATE STREETS, ACCESS WAYS, PARKING AREAS, EASEMENTS AND LOT GRADING SHALL CONFORM TO THE GOVERNING MUNICIPALITY MINIMUM STANDARDS AND SPECIFICATIONS, MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD PLANS CONTINUED TO APPLY WHERE NOT ADOPTED OR INCLUDED BY THE GOVERNING MUNICIPALITY. THE REFERENCE DOCUMENTS AND SPECIFICATIONS INCLUDED WITHIN THIS PLAN ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS AND PROJECTS MANUAL, WHERE THERE IS A CONFLICT BETWEEN THESE NOTES AND THE PROJECT MANUAL, THE MORE STRINGENT OF THE REQUIREMENTS SHALL GOVERN UNLESS PRIOR CLARIFICATION FROM THE DESIGN ENGINEER HAS BEEN GIVEN IN WRITING TO THE CONTRACTOR.
27.	CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE ALL PROJECT SITE WORK, SITE CLEARING, DEMOLITION, ROADWAY EXCAVATION, RELOCATIONS, STRUCTURE EXCAVATION, TRENCHING/BACKFILLING, ALL BORING, DRILLING, SITE GRADING AND EARTHWORK INCLUDING ALL PAVING, PIPING, UTILITY LINE CONSTRUCTION,

28.	CURBS, SIDEWALKS, SITE CONCRETE WORK AND OTHER MISCELLANEOUS SITE WORK STRUCTURES AND ITEMS INDICATED ON THE PLANS AND IN THE CONTRACT DOCUMENTS.
29.	THE ENGINEER OR OWNER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION.
30.	ALL OBSTRUCTIONS IN RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
31.	ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE ENGINEER. QUANTITIES ARE APPROXIMATE ONLY AND INTENDED AS A GUIDE FOR ESTIMATING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN QUANTITY TAKE OFFS. THE OWNER DOES NOT VERIFY ANY CUT/FILL QUANTITIES IF SHOWN ON THE PLANS.
32.	ALL WORK DONE UNDER THIS CONTRACT SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND ENGINEER. THE OWNER AND ENGINEER SHALL MAKE DECISIONS REGARDING QUESTIONS THAT MAY ARISE WITH RESPECT TO THE MEANING OF THE PLANS AND SPECIFICATIONS. THE OWNER'S AND ENGINEER'S DETERMINATIONS AND DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
33.	THE CONTRACTOR OR SUBCONTRACTORS SHALL NOT DEVIATE FROM THESE PLANS OR MAKE FIELD CHANGES WITHOUT NOTIFYING IN WRITING, THE OWNER AND ENGINEER REQUESTING APPROVAL OF THESE MODIFICATIONS. ANY CHANGES MADE WITHOUT EXPRESS WRITTEN APPROVAL OF THE OWNER AND ENGINEER ARE SUBJECT TO REMOVAL AT THE EXPENSE OF THE CONTRACTOR OR SUBCONTRACTOR.
34.	THE 2360 PLANT MIXED ASPHALT PAVEMENT COMBINED 2360/2350 (GYRATORY/MARSHALL DESIGN) SPECIFICATION FOR 2012 CONSTRUCTION SEASON SHALL APPLY. BITUMINOUS MIX QUANTITIES BASED ON 115 LBS / SY-IN (AVAILABLE AT: http://www.mnr.dot.state.mn.us/pavement/bituminous/bituminous.asp)
35.	ALL CONSTRUCTION REMOVAL ITEMS SHALL BE DISPOSED OF AT AN APPROVED WASTE SITE.
36.	CONTRACTOR IS REQUIRED TO POSSESS & FOLLOW THE GOVERNING SPECIFICATIONS REFERENCED IN THIS PLAN.
TRAFFIC CONTROL	
1.	THE WORK UNDER THIS SECTION SHALL BE IN ACCORDANCE WITH THE REFERENCED MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE CONSIDERED A MINIMUM STANDARD FOR THE PROTECTION OF WORKMEN AND THE TRAVELING PUBLIC.
2.	PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS BY THE CONTRACTOR, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAY INCLUDE FURNISHING, INSTALLING, MAINTAINING, MOVING AND REMOVING BARRICADES, WARNING SIGNS, LIGHTS, SIGNALS, CONES, AND ALL OTHER TRAFFIC CONTROL DEVICES, FLAGGING SERVICES AND PILOT TRUCKS, TO PROVIDE SAFE AND EFFICIENT PASSAGE THROUGH AND/OR AROUND THE WORK AREA. ADDITIONALLY, THE TRAFFIC CONTROL PLAN SHALL PROVIDE FOR MOVEMENT OF PEDESTRIAN AND VEHICULAR TRAFFIC THROUGH CONSTRUCTION ZONES AND PROTECT WORKMEN IN OR ADJACENT TO THE WORK ZONE. IT SHALL ALSO SPECIFICALLY AND GRAPHICALLY IDENTIFY A PROPOSED SEQUENCE OF OPERATIONS AND A COMPATIBLE METHOD OF MAINTAINING TRAFFIC. NO DETOURS SHALL BE OPENED TO TRAFFIC UNTIL APPROVED BY THE GOVERNING AUTHORITY OR ITS AUTHORIZED REPRESENTATIVE.
3.	VEHICULAR ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS AT ALL POSSIBLE TIMES. WHEN ACCESS MUST BE RESTRICTED TO ONE LANE FOR CONSTRUCTION, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO EACH AFFECTED RESIDENT NOT LESS THAN 72 HOURS IN ADVANCE.
APPROVALS	
1.	THE CONTRACTOR IS TO USE THE OFFICIAL CONSTRUCTION SET OF PLANS AND DRAWINGS FOR CONSTRUCTION. IT IS THE CONTRACTOR'S DUTY TO ACQUIRE AN OFFICIAL SET OF APPROVED PLANS AND SHALL HAVE A SET OF THESE PLANS WITH HIM/HER ON SITE AT ALL TIMES DURING THE DURATION OF THIS PROJECT.
INSPECTION	
1.	ALL MATERIALS USED AND ALL WORK DONE BY THE CONTRACTOR SHALL BE SUBJECT AT ALL TIMES TO THE INSPECTION, TESTING, AND APPROVAL OF THE OWNER OR HIS REPRESENTATIVE AND THE ENGINEER.
2.	THE OWNER OR HIS REPRESENTATIVE WILL MAKE PERIODIC INSPECTIONS OF THE DIFFERENT PHASES OF THE SITE WORK.
3.	THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PUBLIC UTILITY COMPANIES FOR COORDINATION AND INSPECTION OF TRENCHING, BEDDING AND BACKFILLING DONE IN CONJUNCTION WITH THE INSTALLATION OF THOSE UTILITIES ASSOCIATED WITH THIS PROJECT.
UTILITIES	
1.	ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2503 PIPE SEWER SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
2.	ALL WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2504 WATER MAIN AND SERVICE LINE INSTALLATION SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
3.	ALL GAS LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2505 GAS MAIN SPEC OF THE CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS. (AVAILABLE AT: http://www.duluthmn.gov/engineering/spec_book/PDFs/2013%20Standard%20Construction%20Specifications.pdf)
4.	UTILITIES IF INDICATED ON PLANS ARE APPROXIMATE LOCATIONS ONLY, TAKEN FROM THE UTILITY COMPANY MAPS. IF THE CONTRACTOR ENCOUNTERS ANY LINES OR TAPS NOT INDICATED ON THE DRAWINGS, MARKED IN THE FIELD BY THE UTILITY COMPANY OR OTHERS THAT MAY INTERFERE WITH HIS WORK, HE/SHE SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY IMMEDIATELY FOR DISPOSITION OF THOSE FACILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATIONS OF ALL PUBLIC AND PRIVATE UTILITY LINES IN THE AREA OF WORK.
FIELD ENGINEERING:	
1.	THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL STAKES, REFERENCE AND CONTROL POINTS, ETC. AGAINST DESTRUCTION AND SHALL PROMPTLY NOTIFY HIS ENGINEER/SURVEYOR OF ANY STAKES WHICH HAVE BEEN DISTURBED. IN CASE OF RESTAKING DUE TO TIMING LAG CAUSED BY THE CONTRACTOR'S WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR MAY BE CHARGED BY THE OWNER WITH THE RESULTING EXPENSE FOR THE RESTAKING.
2.	ENGINEER/SURVEYOR SHALL BE NOTIFIED TWO WORKING DAYS (48 HOURS) MINIMUM PRIOR TO THE FIELD STAKING SCHEDULING.
3.	ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
4.	ALL CONSTRUCTION STAKING FOR GRADE, ALIGNMENT AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED BELOW.
5.	THE CONTRACTOR'S ENGINEER/SURVEYOR AND THE DESIGN ENGINEER CANNOT GUARANTEE THE ACCURACY OF CONSTRUCTION STAKES FOR GRADE OR ALIGNMENT AFTER THE SURVEY CREW HAS LEFT THE SITE DUE TO VANDALISM AND CONSTRUCTION OPERATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW IN THE FIELD ALL CONSTRUCTION STAKING DONE PRIOR TO BEGINNING THE PLACEMENT OF FORMS OR BEGINNING CONSTRUCTION FOR THAT PHASE OF THE WORK. THE CONTRACTOR SHALL NOTIFY HIS ENGINEER/SURVEYOR IMMEDIATELY FOR VERIFICATION OF GRADE AND ALIGNMENT SHOULD A PROBLEM ARISE IN THE FIELD. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE COMPENSATION TO HIS ENGINEER/SURVEYOR FOR PRECHECKS AND RESTAKING.



413 GROUP

John Ivey Thomas Associates Inc. Architects, 413 East Superior Street, Duluth, Minnesota 55802 (218) 722-9271

City of Duluth Fire Station #1 Upper Lot Bituminous Replacement - Project #14-21-RH
602 West Second Street
Duluth, MN

GENERAL NOTES, LEGEND, & DEFINITIONS

Sheet: **C2**

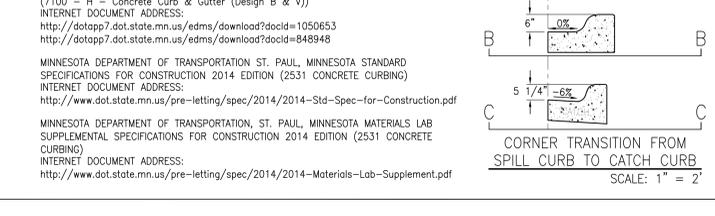
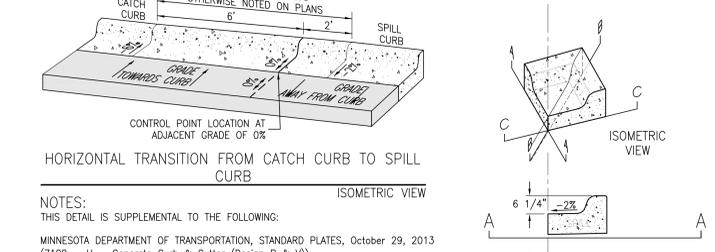
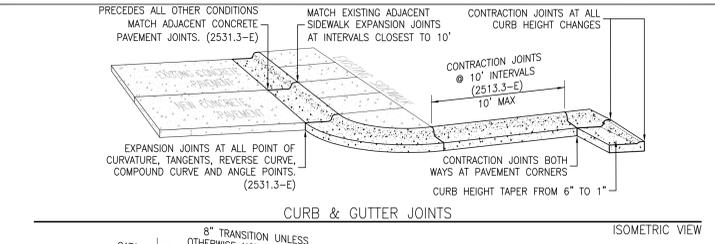
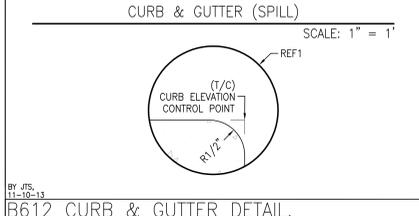
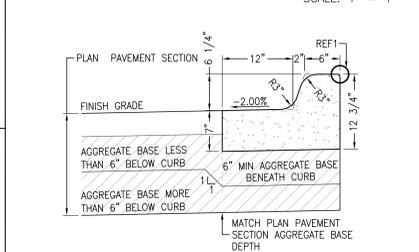
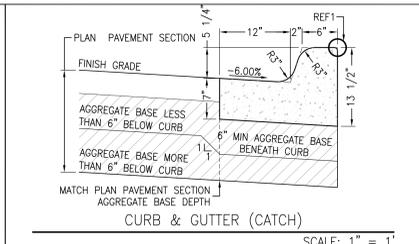
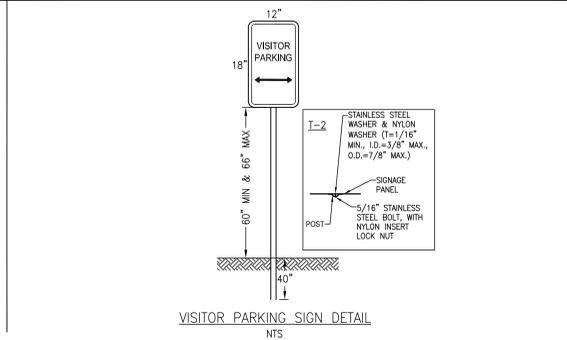
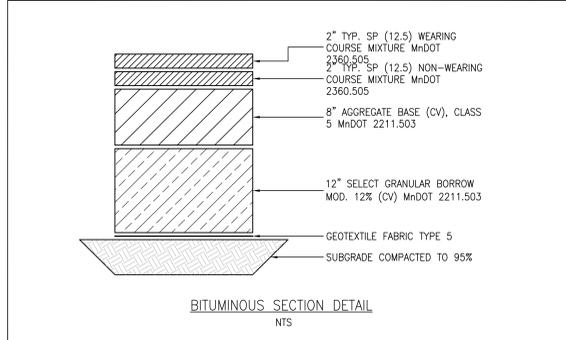
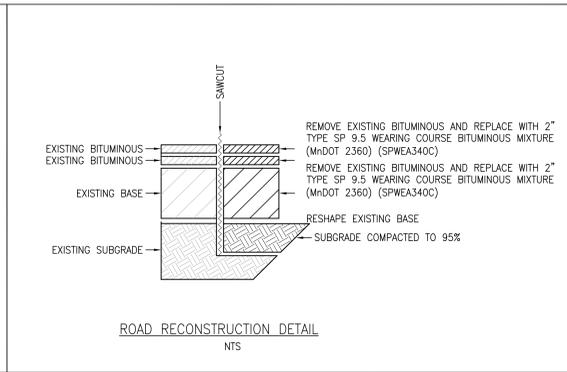
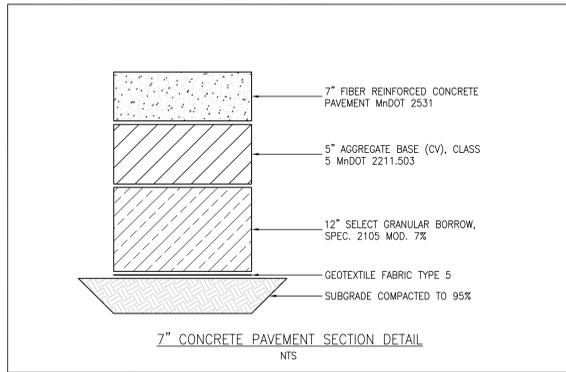
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Scale: 1" = 20'

Date: 1-3-2014

Drawn: TTP

Checked: 25



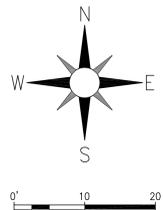
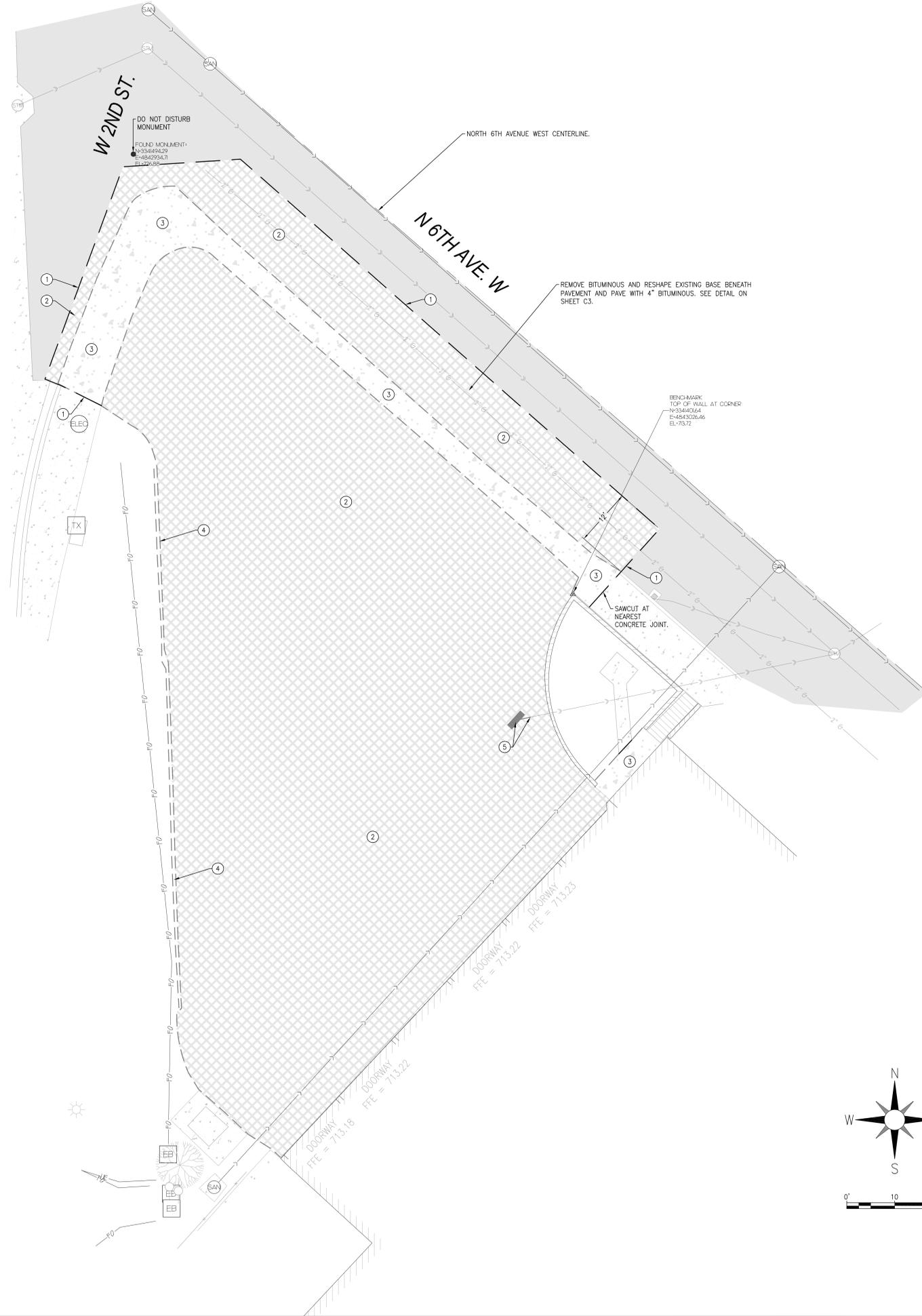
NOTES:
 THIS DETAIL IS SUPPLEMENTAL TO THE FOLLOWING:
 MINNESOTA DEPARTMENT OF TRANSPORTATION, STANDARD PLATES, October 29, 2013 (7100 - H - Concrete Curb & Gutter (Design B & V))
 INTERNET DOCUMENT ADDRESS:
<http://dotapp7.dot.state.mn.us/edms/download?docid=1050653>
<http://dotapp7.dot.state.mn.us/edms/download?docid=848948>
 MINNESOTA DEPARTMENT OF TRANSPORTATION ST. PAUL, MINNESOTA STANDARD SPECIFICATIONS FOR CONSTRUCTION 2014 EDITION (2531 CONCRETE CURBING)
 INTERNET DOCUMENT ADDRESS:
<http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Std-Spec-for-Construction.pdf>
 MINNESOTA DEPARTMENT OF TRANSPORTATION, ST. PAUL, MINNESOTA MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION 2014 EDITION (2531 CONCRETE CURBING)
 INTERNET DOCUMENT ADDRESS:
<http://www.dot.state.mn.us/pre-letting/spec/2014/2014-Materials-Lab-Supplement.pdf>

BY JIS, 11-30-13
B612 CURB & GUTTER DETAIL.

MESABA AVENUE

W 2ND ST.

N 6TH AVE. W



DEMOLITION NOTES

- ① - - - SAWCUT LINE
- ② [Pattern] SAWCUT AND REMOVE BITUMINOUS PAVEMENT.
- ③ [Pattern] SAWCUT AND REMOVE CONCRETE PAVEMENT.
- ④ [Pattern] SAWCUT AND REMOVE CURB & GUTTER.
- ⑤ [Pattern] REMOVE CATCH BASIN AND ±5 LF OF STORM PIPE TO ACCOMMODATE NEW CATCH BASIN. SEE C4 & C5.



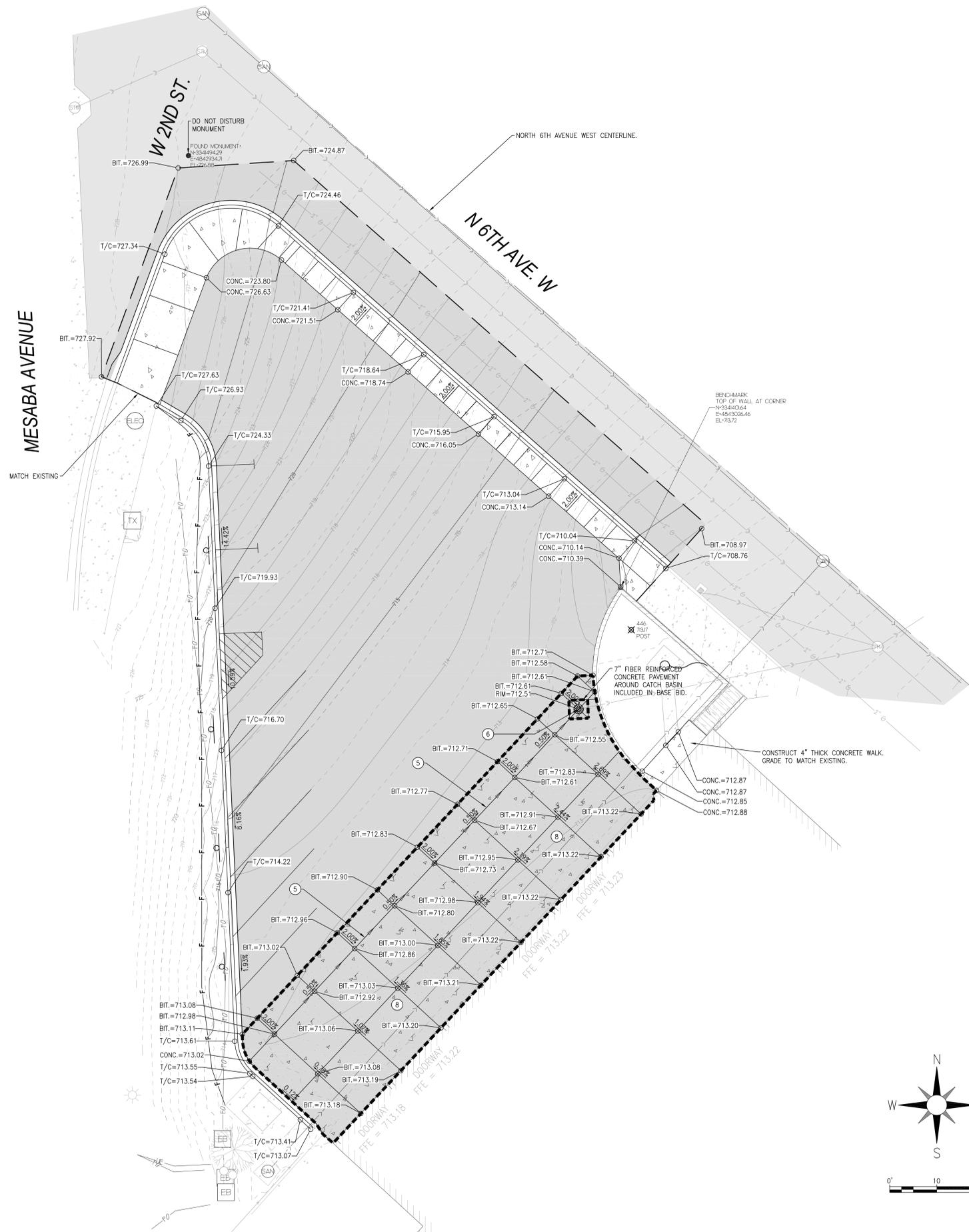
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of MINNESOTA.

D.M.D. G. BOUF
 Date: 7-3-2014
 Reg. No.: 49926

EXISTING CONDITIONS & REMOVALS PLAN

John Ivey Thomas Associates Inc. Architects, 413 East Superior Street, Duluth, Minnesota 55802 (218) 722-8271
 City of Duluth Fire Station #1 Upper Lot Bituminous Replacement - Project #14-21-RH
 Duluth, MN

Sheet: **C4**
 of: 1



GRADING PLAN NOTES

- ① CONSTRUCT BITUMINOUS PAVEMENT. SEE SHEET C3 FOR STREET RESTORATION AND CONSTRUCTION DETAILS.
 - ② CONSTRUCT 7" THICK FIBER REINFORCED CONCRETE PAVEMENT. SEE SHEET C3 FOR DETAILS.
 - ③ CONSTRUCT B612 CURB & GUTTER. SEE SHEET C3 FOR DETAILS.
 - ④ CONSTRUCT STRIPING.
 - ⑤ FLOW LINE.
 - ⑥ 24" RCP CATCH BASIN. CONNECT TO EXISTING CLAY PIPE.
 - ⑦ VISITOR PARKING SIGN.
 - ⑧ BASE BID - CONSTRUCT BITUMINOUS PAVEMENT. SEE SHEET C3 FOR DETAILS. ADD ALTERNATE #1 - CONSTRUCT 7" THICK FIBER REINFORCED CONCRETE PAVEMENT.
- GB GRADE BREAK LINE.
 500 MAJOR CONTOUR LINE.
 501 MINOR CONTOUR LINE.
 C CUT LINE.
 F FILL LINE.

**ALL SPOT ELEVATIONS SHOWN ARE AT THE BACK OF CURB UNLESS OTHERWISE NOTED.

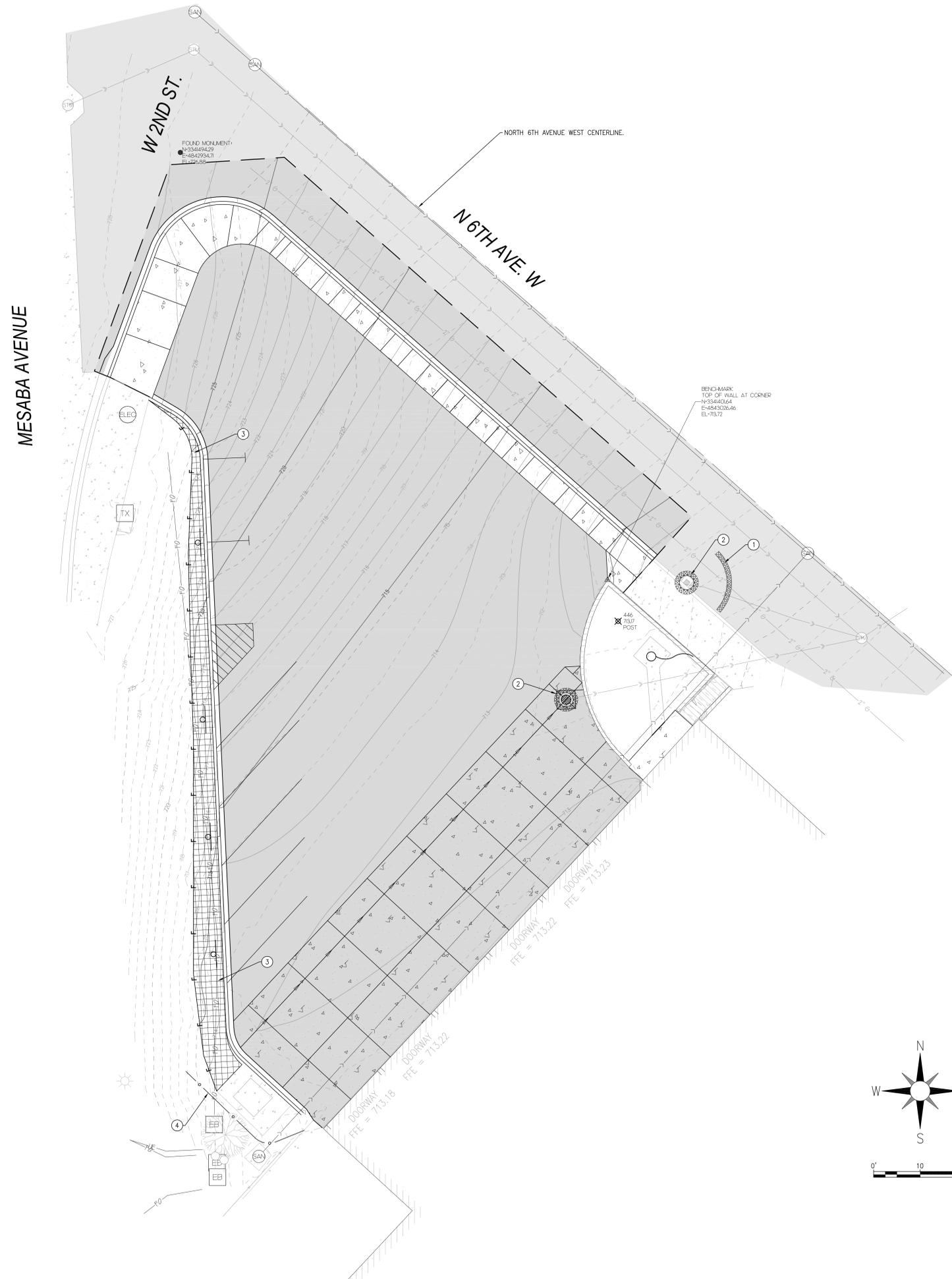
ABBREVIATIONS:
 CONC. CONCRETE SURFACE
 BIT. BITUMINOUS SURFACE
 T/C TOP OF CURB
 FG FINISH GRADE



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GRADING PLAN

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 602 West Second Street
 Duluth, MN

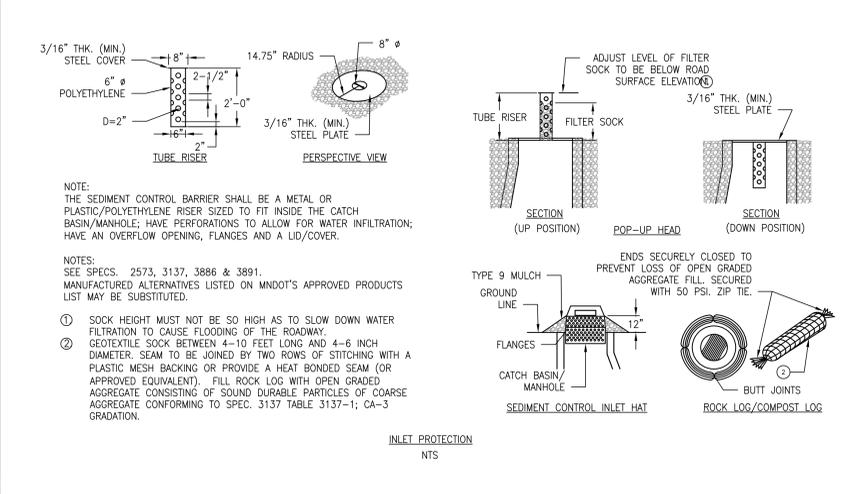
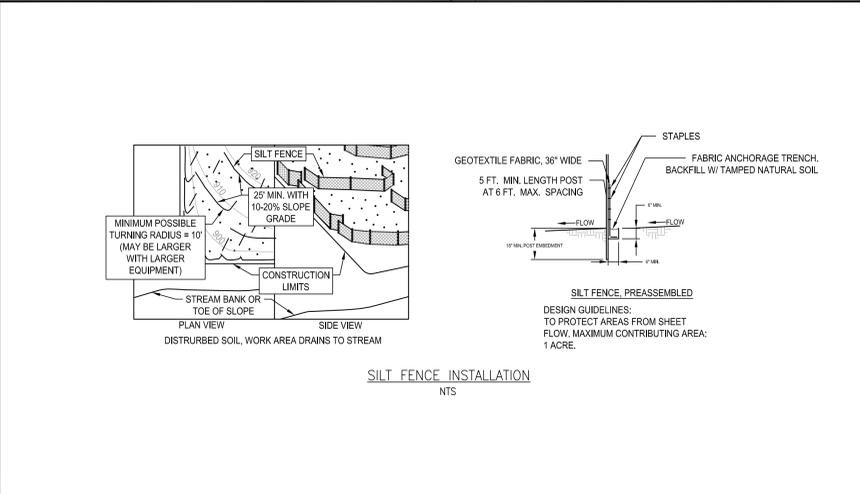


EROSION CONTROL NOTES	
①	COMPOST LOG.
②	INLET SEDIMENT PROTECTION. REFER TO DETAIL BELOW.
③	SOD DISTURBED AREAS.
④	CONSTRUCT SILT FENCE. REFER TO DETAIL BELOW.



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 DMD, C. BOLF
 Date: 7-3-2014
 Reg. No.: 40926

EROSION CONTROL PLAN



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