

WATER SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|------------------------------|
| | | CAP/PLUG |
| | | COUPLING |
| | | GUARD POST |
| | | REDUCER |
| | | THRUST BLOCKING |
| | | WATER METER |
| | | FIRE HYDRANT 2-NOZZLE |
| | | FIRE HYDRANT 3-NOZZLE |
| | | FLANGE/BLIND FL (FL) (BL FL) |
| | | MECHANICAL JOINT (MJ) |
| | | PUSH-ON/HUB |
| | | THREAD |
| | | AIR RELIEF VALVE |
| | | BLOW-OFF VALVE |
| | | BUTTERFLY VALVE |
| | | CHECK VALVE |
| | | GATE/GENERAL VALVE |
| | | PLUG VALVE |

GAS/POWER/TELEPHONE SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|---|
| | | GAS METER |
| | | GAS VALVE |
| | | PAD MOUNTED TRANSFORMER |
| | | POWER VAULT |
| | | TRANSMISSION TOWER |
| | | UTILITY POLE |
| | | UTILITY POLE ANCHOR |
| | | TELEPHONE RISER |
| | | TELEPHONE VAULT |
| | | ROADWAY LUMINAIRE |
| | | PEDESTRIAN LUMINAIRE |
| | | FRONTIER VAULT |
| | | COMCAST VAULT |
| | | MINI PAD TRANSFORMER W/COMBINATION JUNCTION BOX |

SURVEY SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|-----------------------|
| | | ANGLE POINT |
| | | BENCH MARK |
| | | BLOCK CORNER |
| | | IRON PIPE |
| | | MONUMENT (IN CASE) |
| | | MONUMENT (SURFACE) |
| | | OWNERSHIP TIE |
| | | SECTION CORNER |
| | | QUARTER CORNER |
| | | SIXTEENTH CORNER |
| | | CLOSING CORNER |
| | | MEANDER CORNER |
| | | WITNESS CORNER |
| | | SOIL BORING/POTHOLING |
| | | SPOT ELEVATION |
| | | TAX LOT/PARCEL NUMBER |

SIGNALIZATION SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|--|
| | | AERIAL DISCONNECT |
| | | AERIAL TERMINAL COMPARTMENT |
| | | DIPOLE DETECTOR |
| | | QUADRAPOLE DETECTOR |
| | | ROUND LOOP DETECTOR |
| | | PEDESTRIAN DETECTOR |
| | | INDICATOR LIGHT |
| | | OPTICOM SENSOR |
| | | OPTICOM SENSOR W/INDICATOR LIGHTS |
| | | FLASHING WARNING SYSTEM |
| | | JUNCTION BOXES (TYPE I, II, III) |
| | | PEDESTRIAN PUSHBUTTON POST W/ PUSHBUTTON |
| | | PEDESTRIAN SIGNAL HEAD |
| | | SIGNAL POLE NOTE |
| | | R/R CROSSING GATE |
| | | R/R CROSSING SIGNAL |
| | | SIGNAL CONTROLLER |
| | | SIGNAL LOAD CENTER |
| | | STREET LIGHT ASSEMBLY |
| | | TRAFFIC SIGN-BRIDGE |
| | | TRAFFIC SIGN-CANTILEVERED |
| | | TRAFFIC SIGN-SINGLE POST |
| | | TRAFFIC SIGN-DOUBLE POST |
| | | TRAFFIC SIGNAL POLE |
| | | TRAFFIC SIGNAL POLE W/ LUMINAIRE |
| | | TRAFFIC SIGNAL SUPPORT POLE |
| | | VEHICLE SIGNAL HEAD |
| | | VEHICLE SIGNAL HEAD W/ ARROW INDICATOR |
| | | WIRE NOTE |

SANITARY/STORM SEWER SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|----------------------------------|
| | | SANITARY SEWER CLEAN OUT |
| | | SANITARY SEWER MANHOLE |
| | | STORM DRAIN CATCH BASIN (TYPE 1) |
| | | STORM DRAIN CULVERT |
| | | STORM DRAIN CATCH BASIN (TYPE 2) |
| | | STORM DRAIN MANHOLE |
| | | ENERGY DISSIPATOR |
| | | OVERFLOW STRUCTURE |

CHANNELIZATION SYMBOLS

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|----------------------|
| | | BIKE PATH |
| | | HANDICAP SYMBOL |
| | | H.O.V. LANE SYMBOL |
| | | ONLY |
| | | RAILROAD CROSSING |
| | | SCHOOL |
| | | STOP |
| | | STRAIGHT ARROW |
| | | LT.RT.STR. ARROW |
| | | LEFT-RIGHT ARROW |
| | | 2-WAY LEFT TURN |
| | | LEFT TURN ARROW |
| | | RIGHT TURN ARROW |
| | | LEFT-STRAIGHT ARROW |
| | | RIGHT-STRAIGHT ARROW |
| | | LANE MARKER TYPE I |
| | | LANE MARKER TYPE II |

SURFACE FEATURES/LANDSCAPING

| SYMBOL EXIST. | PROP. | DESCRIPTION |
|---------------|-------|------------------|
| | | BUS STOP |
| | | EMBANKMENT |
| | | MAIL BOX |
| | | RIP RAP |
| | | ROCKERY |
| | | SHRUB |
| | | SIGN |
| | | TREE (CONIFER) |
| | | TREE (DECIDUOUS) |
| | | FENCE POST |
| | | CURB RAMP |
| | | YARD LIGHT |

ABBREVIATIONS

| | |
|------------|---|
| ADJ | ADJUST |
| ALIGN | ALIGNMENT |
| ALT | ALTERNATE |
| AP | ANGLE POINT |
| APPROX | APPROXIMATELY |
| ASPH | ASPHALT |
| AVE | AVENUE |
| AVG | AVERAGE |
| BM | BENCH MARK |
| BOT | BOTTOM |
| BTWN | BETWEEN |
| CB | CATCH BASIN |
| CB1 | CATCH BASIN TYPE 1 |
| CB2 | CATCH BASIN TYPE 2 |
| CG | CURB & GUTTER |
| C/L, CL, C | CENTERLINE |
| COM | COMMON |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCT |
| CONT | CONTINUED/CONTINUOUS |
| DET | DETAIL |
| DWG | DRAWING |
| E | EAST, VERTICAL DISTANCE BETWEEN PVI AND ROAD SURFACE |
| EA | EACH |
| EL | ELEVATION |
| EX, EXIST | EXISTING |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FT | FEET/FOOT |
| G | GAS LINE |
| GE | GROUND ELEVATION |
| GV | GAS VALVE |
| HORIZ | HORIZONTAL |
| HPS | HIGH PRESSURE SODIUM |
| HT | HEIGHT |
| IE | INVERT ELEVATION |
| IN | INCH/INCHES |
| INT | INTERSECTION |
| JUT | JOINT UTILITY TRENCH |
| K | RATE OF VERTICAL CURVATURE (LENGTH (FT) PER % DIFF. IN GRADE) |
| L | LENGTH OF ARC |
| LB | POUND |
| LBS | POUNDS |
| LF | LINEAL FOOT/FEET |
| LT | LEFT |
| LUMIN | LUMINAIRE |
| MAX | MAXIMUM |
| MB | MAILBOX |
| MH | MANHOLE |
| MIN | MINIMUM |
| MON | MONUMENT |
| N | NORTH |
| NA | NOT APPLICABLE |
| NTS | NOT TO SCALE |
| OPP | OPPOSITE |
| PC | POINT OF CURVE |
| PT | POINT OF TANGENT |
| PVC | POLYVINYL CHLORIDE / POINT OF VERTICAL CURVE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVMT | PAVEMENT |
| PVT | POINT OF VERTICAL TANGENT |
| R | RADIUS |
| REF | REFERENCE |
| RR | RAILROAD |
| RT | RIGHT |
| R/W, ROW | RIGHT OF WAY |
| S | SOUTH |
| SD | STORM DRAIN |
| STL | STREET LIGHT |
| SLJB | STREET LIGHTING JUNCTION BOX |
| SS | SANITARY SEWER |
| ST | STREET |
| STA | STATION |
| S/W | SIDEWALK |
| TOC | TOP OF CURB |
| TV | TELEVISION |
| UTIL | UTILITY |
| VERT | VERTICAL |
| W | WEST, WATER LINE |
| W/ | WITH |

LINETYPES

| LINETYPE | DESCRIPTION |
|----------|----------------------------------|
| | SURFACE FEATURES: |
| | EXISTING BUILDING LINE |
| | PROPOSED BUILDING LINE |
| | EXISTING DITCH |
| | PROPOSED DITCH |
| | EXISTING CURB/PAVEMENT/SIDEWALK |
| | PROPOSED CURB/PAVEMENT/SIDEWALK |
| | EXISTING FENCE LINE |
| | PROPOSED FENCE LINE |
| | EXISTING GRAVEL |
| | EXISTING GUARDRAIL |
| | PROPOSED GUARDRAIL |
| | LAKE/POND |
| | WETLAND/SWAMP PERIMETER |
| | RAILROAD |
| | EXISTING RETAINING WALL |
| | PROPOSED RETAINING WALL |
| | RIVERBANK/ShORELINE |
| | VEGETATION LINE |
| | SURVEY: |
| | EXISTING CENTERLINE |
| | PROPOSED CENTERLINE |
| | EXISTING CONTOUR (INTERMEDIATE) |
| | EXISTING CONTOUR (INDEX) |
| | PROPOSED CONTOUR (INTERMEDIATE) |
| | PROPOSED CONTOUR (INDEX) |
| | EXISTING EASEMENT LINE |
| | PROPOSED EASEMENT LINE |
| | EXISTING PROPERTY LINE |
| | EXISTING RIGHT OF WAY CENTERLINE |
| | EXISTING RIGHT OF WAY |
| | EXISTING RIGHT OF WAY (USED) |
| | PROPOSED RIGHT OF WAY |
| | SECTION LINE |
| | QUARTER SECTION LINE |
| | 16TH SECTION LINE |
| | UTILITIES (EXISTING) |
| | EXISTING GAS LINE |
| | EXISTING AERIAL POWER |
| | EXISTING BURIED POWER |
| | EXISTING STORM DRAIN |
| | EXISTING FORCE MAIN |
| | EXISTING SANITARY SEWER |
| | EXISTING AERIAL TELEPHONE |
| | EXISTING BURIED TELEPHONE |
| | EXISTING WATER LINE |
| | UTILITIES (PROPOSED) |
| | PROPOSED GAS LINE |
| | PROPOSED AERIAL POWER |
| | PROPOSED BURIED POWER |
| | PROPOSED STORM DRAIN |
| | PROPOSED FORCE MAIN |
| | PROPOSED SANITARY SEWER |
| | PROPOSED AERIAL TELEPHONE |
| | PROPOSED BURIED TELEPHONE |
| | PROPOSED WATER LINE |
| | PROPOSED COMCAST |
| | PROPOSED FRONTIER |
| | PROPOSED PUGET SOUND ENERGY |
| | PROPOSED JOINT UTILITY TRENCH |
| | CUSTOM: |
| | CUT LINE |
| | FILL LINE |
| | SILT FENCE |
| | CONSTRUCTION FENCE |

Mar 08, 2016 - 3:58pm MickeyC, X:\Kenmore, City of Kenmore, Services Contract 12-C1082-027 - Kenmore NE 181st St South Side Sidewalk\ADD20120170.LG.dwg Layout Name: Legend

| No. | Date | Revision | By | Appr. |
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 181ST ST SOUTH SIDE SIDEWALK

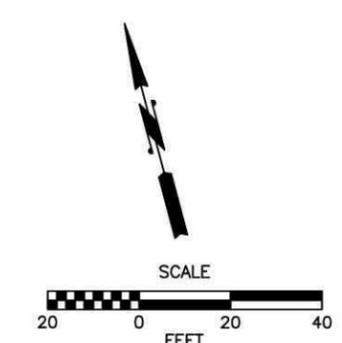
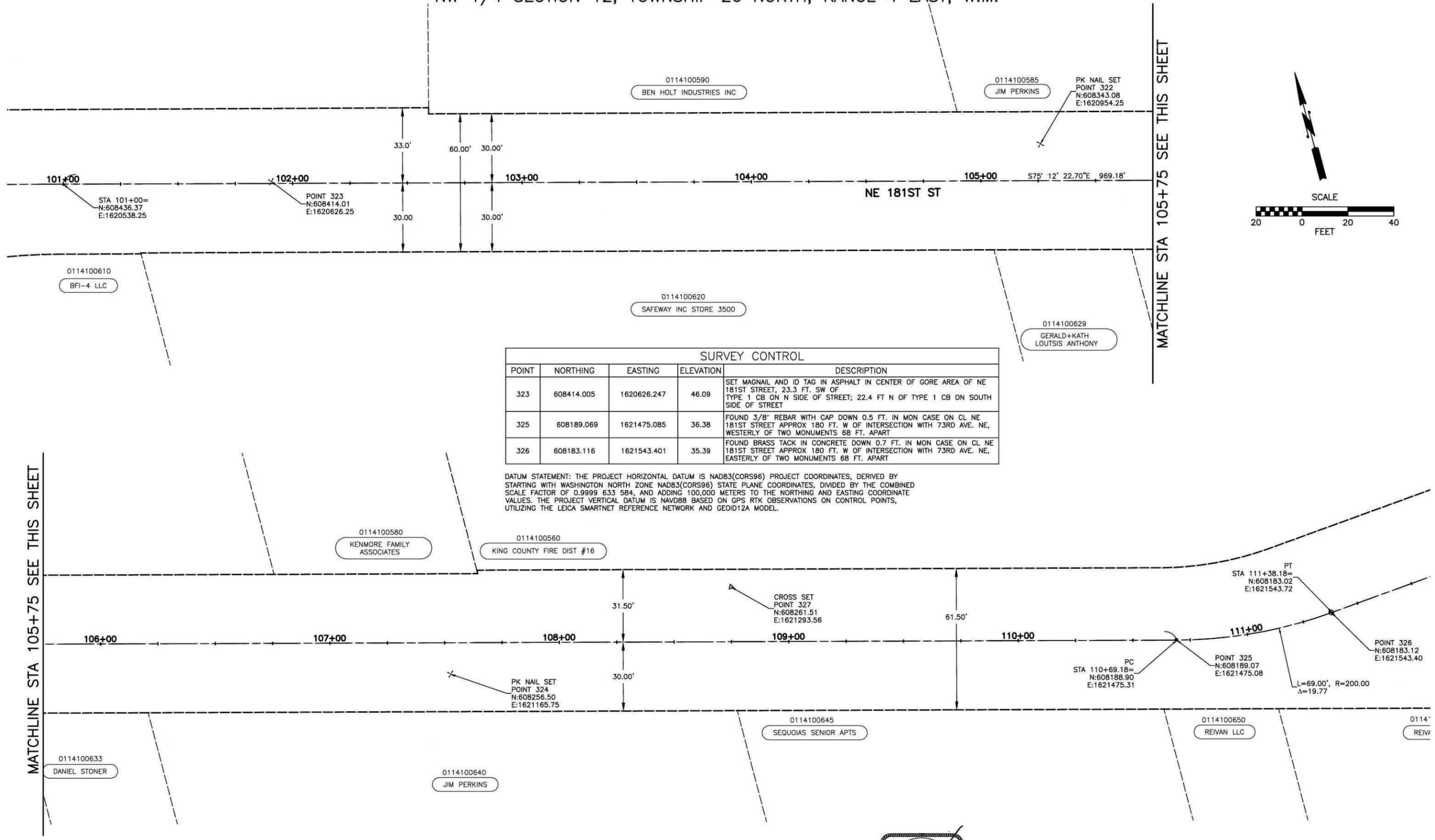


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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | | |
| Checked By | DD | | |
| Approved By | | | |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
LEGEND & ABBREVIATION

| | |
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| Drawing No. | LG1 |
| Sheet No. | 2 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



| SURVEY CONTROL | | | | |
|----------------|------------|-------------|-----------|---|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 323 | 608414.005 | 1620626.247 | 46.09 | SET MAGNAIL AND ID TAG IN ASPHALT IN CENTER OF GORE AREA OF NE 181ST STREET, 23.3 FT. SW OF TYPE 1 CB ON N SIDE OF STREET; 22.4 FT N OF TYPE 1 CB ON SOUTH SIDE OF STREET |
| 325 | 608189.069 | 1621475.085 | 36.38 | FOUND 3/8" REBAR WITH CAP DOWN 0.5 FT. IN MON CASE ON CL NE 181ST STREET APPROX 180 FT. W OF INTERSECTION WITH 73RD AVE. NE, WESTERLY OF TWO MONUMENTS 68 FT. APART |
| 326 | 608183.116 | 1621543.401 | 35.39 | FOUND BRASS TACK IN CONCRETE DOWN 0.7 FT. IN MON CASE ON CL NE 181ST STREET APPROX 180 FT. W OF INTERSECTION WITH 73RD AVE. NE, EASTERLY OF TWO MONUMENTS 68 FT. APART |

DATUM STATEMENT: THE PROJECT HORIZONTAL DATUM IS NAD83(CORS96) PROJECT COORDINATES, DERIVED BY STARTING WITH WASHINGTON NORTH ZONE NAD83(CORS96) STATE PLANE COORDINATES, DIVIDED BY THE COMBINED SCALE FACTOR OF 0.9999 633 584, AND ADDING 100,000 METERS TO THE NORTHING AND EASTING COORDINATE VALUES. THE PROJECT VERTICAL DATUM IS NAVD88 BASED ON GPS RTK OBSERVATIONS ON CONTROL POINTS, UTILIZING THE LEICA SMARTNET REFERENCE NETWORK AND GEOID12A MODEL.

MATCHLINE STA 105+75 SEE THIS SHEET

MATCHLINE STA 105+75 SEE THIS SHEET

Mar 08, 2016 - 3:59pm Mickey C. X:\Kenmore_City of Kenmore_City of Projects\2017\70 - Professional Services Contract\2-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\70 AL.dwg Layout Name: AL1

| No. | Date | Revision | By | Appr. |
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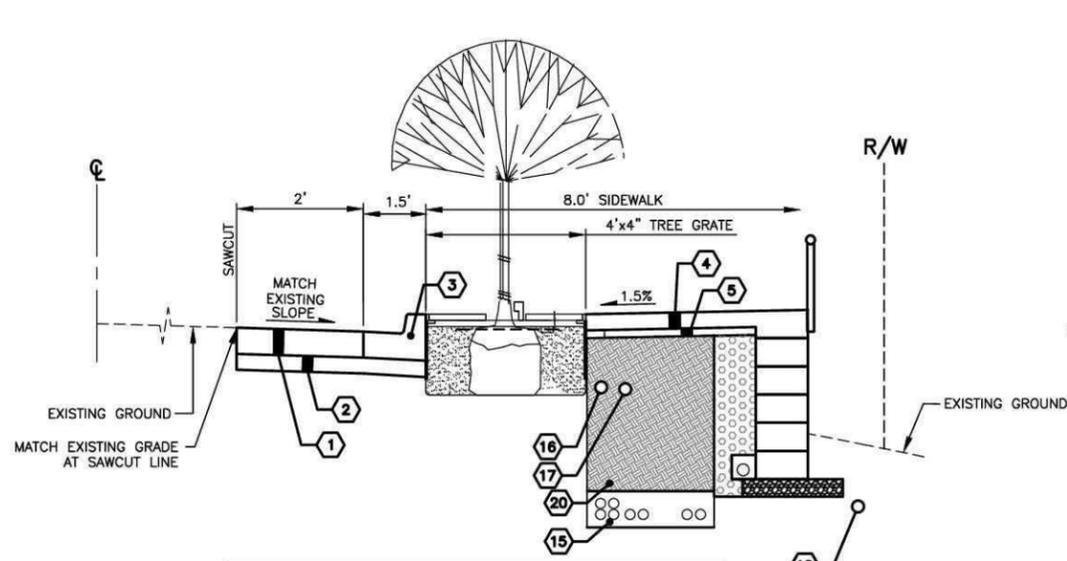
KENMORE
 CITY OF KENMORE

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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Checked By | JG |
| Approved By | JG | Date | 03/08/16 |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
 ALIGNMENT &
 SURVEY CONTROL PLAN

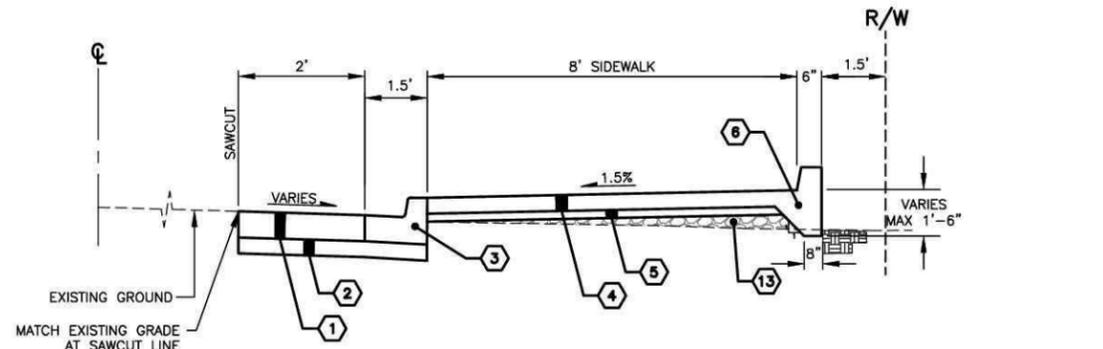
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| Drawing No. | AL1 |
| Sheet No. | 3 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

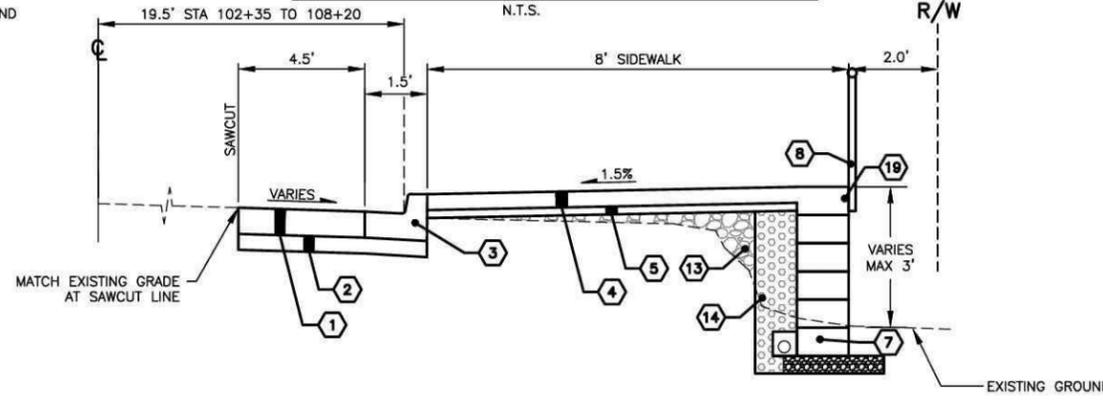


NOTE: REFER TO DETAIL SHEET UD3 FOR INDIVIDUAL TRENCH SECTIONS.

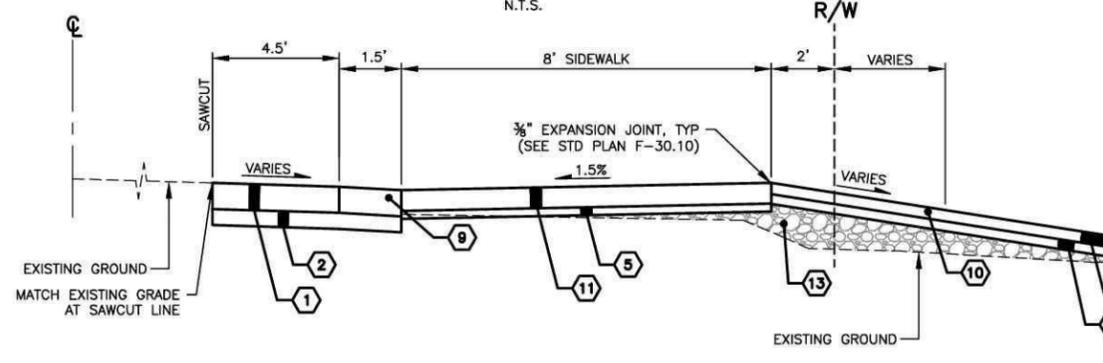
TYPICAL SECTION FOR UTILITY TRENCH/TREE GRATE
(SEE PLAN VIEW FOR LOCATIONS)
N.T.S.



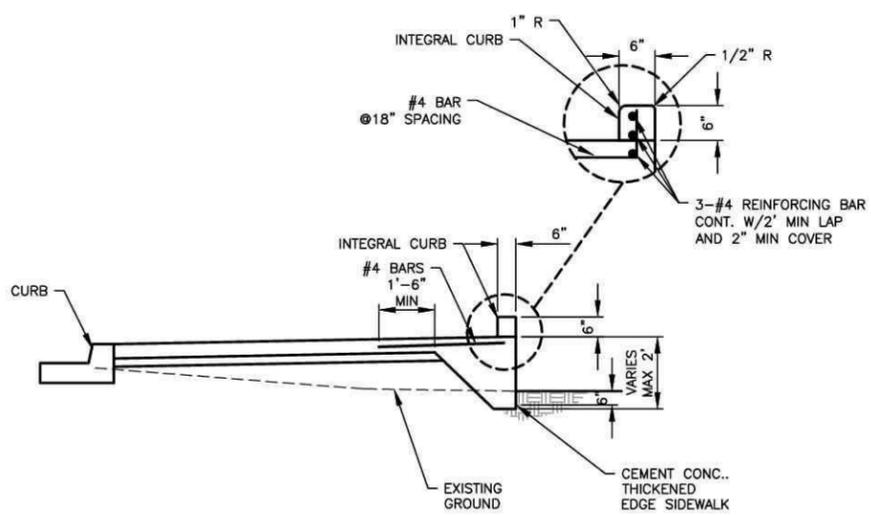
TYPICAL SECTION FROM STA 102+00-104+61.62
N.T.S.



TYPICAL SECTION FROM 104+96.62-108+83.12 W/WALL
N.T.S.



TYPICAL SECTION FOR DRIVEWAYS
N.T.S.



CEMENT CONC. THICKENED EDGE SIDEWALK
N.T.S.

CONSTRUCTION NOTES:

- 1 6" HMA FOR PAVEMENT REPAIR CL. 1/2 IN. PG 64-22.
- 2 4" CSTC.
- 3 CEMENT CONC. VERTICAL CURB AND GUTTER PER WSDOT STD. PLAN F-10.12.3.
- 4 4" CEMENT CONC. SIDEWALK PER WSDOT STD. PLAN F-30.10-02, WITH 2'x2' TROWEL SCORING PATTERN.
- 5 2" CSTC.
- 6 CEMENT CONC. THICKENED EDGE SIDEWALK, SEE DETAIL, THIS SHEET.
- 7 MODULAR BLOCK WALL PER DETAIL SHEET WD1.
- 8 PEDESTRIAN RAIL PER DETAIL SHEET MD1.
- 9 DEPRESSED CURB & GUTTER PER WSDOT STD. PLAN F-10.12-03.
- 10 ASPHALT DRIVEWAY TRANSITION.
- 11 8" CEMENT CONC. DRIVEWAY ENTRANCE AT SAFEWAY. 6" CEMENT CONC. DRIVEWAY FOR ALL OTHERS PER DETAIL SHEET MD1.
- 12 4" HMA FOR APPROACH CL. 1/2 IN PG 64-22 AT SAFEWAY. 2" HMA FOR APPROACH CL. 1/2 IN. PG 64-22 AT ALL OTHERS.
- 13 GRAVEL BORROW WHERE NOT ABOVE JOINT UTILITY TRENCH.
- 14 GRAVEL BACKFILL FOR WALLS.
- 15 JOINT UTILITY TRENCH PER DETAIL SHEET UD1.
- 16 IRRIGATION LATERAL, SEE PLANTING & IRRIGATION PLANS.
- 17 ELECTRICAL LINE SEE ILLUMINATIONS PLANS.
- 18 IRRIGATION MAIN, SEE PLANTING & IRRIGATION PLANS.
- 19 COPING BAND PER DETAIL, SHEET WD1
- 20 GRAVEL BACKFILL FOR TRENCH

GENERAL NOTES:

1. FOR ALL PROPOSED SIDEWALK AREAS, EXISTING SCORING & JOINT STYLE FROM THE WEST END OF THE PROJECT ARE TO BE DUPLICATED. PROPOSED SCORING AND JOINTS ARE TO MATCH FOR THE ENTIRE LENGTH OF THE PROJECT.

Mar 08, 2016 - 3:59pm Mickey C. X:\Kenmore, City of\Projects\2017\1701 - Professional Services\Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\1701 TS.dwg Layout Name: TS1

| No. | Date | Revision | By | Appr. |
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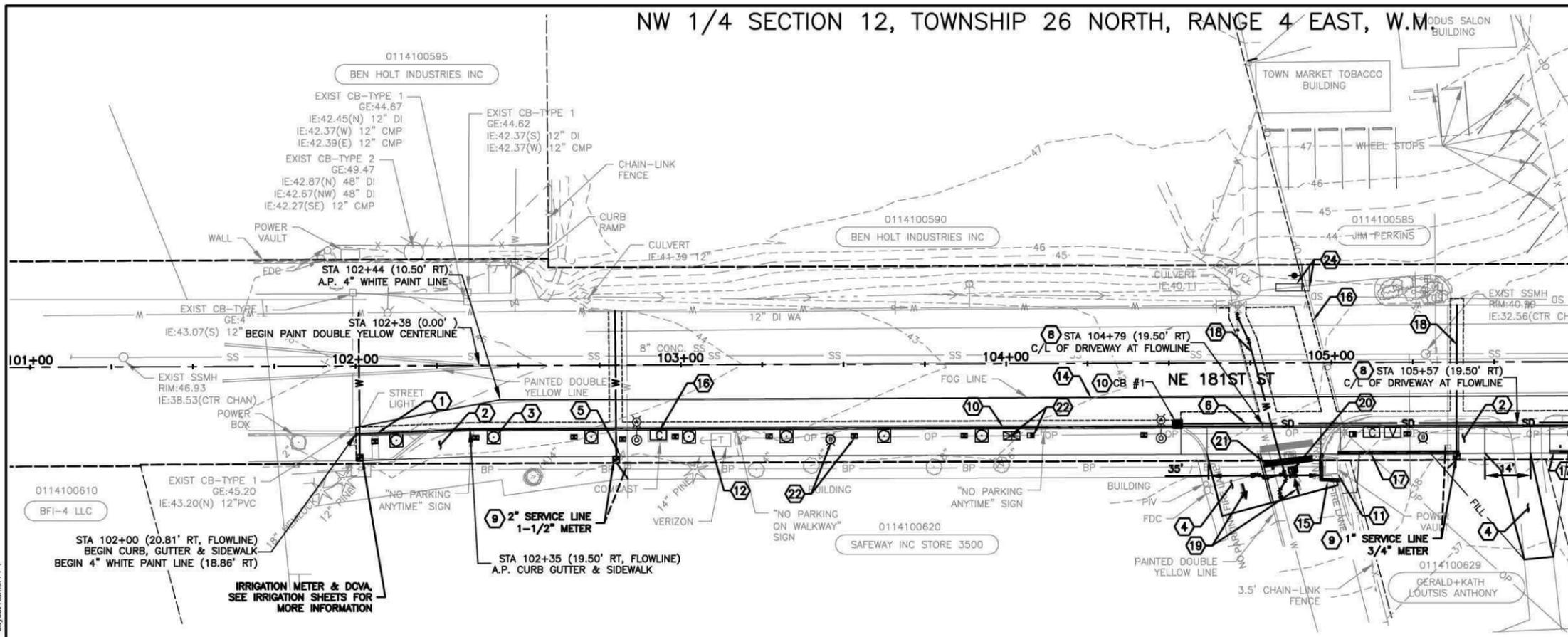


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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Date | 03/08/16 |
| Checked By | DD | Date | 03/08/16 |
| Approved By | | | |

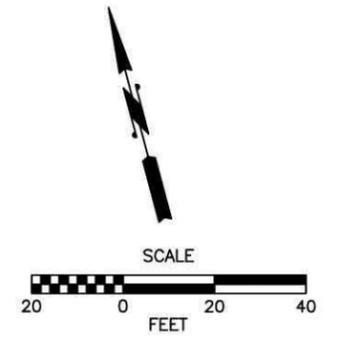
CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
TYPICAL SIDE WALK SECTIONS &
MISCELLANEOUS DETAILS

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| Drawing No. | TS1 |
| Sheet No. | 5 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



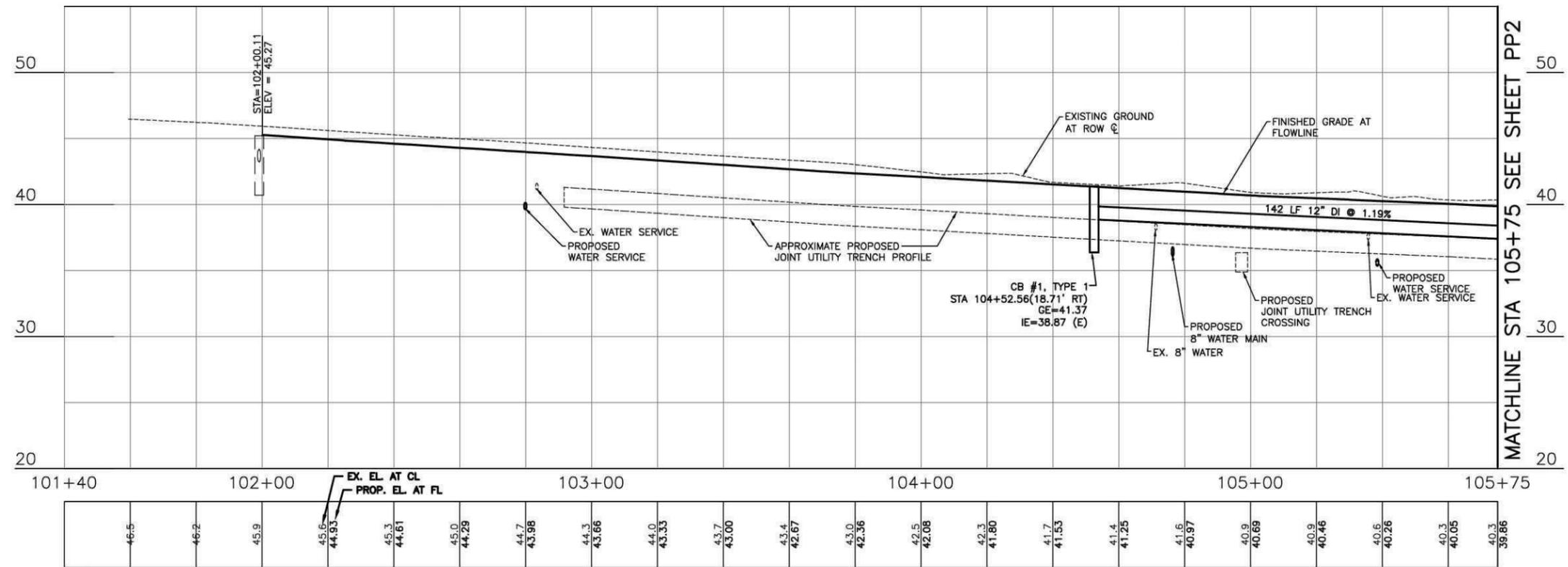
MATCHLINE STA 105+75 SEE SHEET PP2



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT CEMENT CONC. VERTICAL CURB AND GUTTER, PER WSDOT STD. PLAN F-10.12-03.
 - 2 CEMENT CONC. SIDEWALK, PER TS1.
 - 3 INSTALL STREET TREE AND TREE GRATE TYP. SEE IRRIGATION & PLANTING PLAN (TYP).
 - 4 CONSTRUCT DRIVEWAY APPROACH PER TS1.
 - 5 ABANDON IN PLACE EXISTING IRRIGATION SYSTEM.
 - 6 INSTALL DUCTILE IRON STORM SEWER PIPE, 12" DIAM.
 - 7 INSTALL MAILBOX UNIT PER KCDCS FIG. 5-017.
 - 8 CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE TYPE 2 PER MD1.
 - 9 REPLACE EXISTING WATER SERVICE WITH NEW, SIZE AS INDICATED. REMOVE AND DISPOSE OF EXISTING METER BOX AND CLOSE EXISTING CORPORATION STOP AT MAIN. RECONNECT EXISTING SERVICE LINE. SEE NUD STANDARD DETAILS AND SPECIFICATIONS. COORDINATE WITH NUD FOR METER REMOVAL AND REINSTALLATION.
 - 10 INSTALL CATCH BASIN TYPE 1, PER KCDCS FIG. 7-003.
 - 11 POWER VAULT TO BE ADJUSTED BY PSE.
 - 12 ADJUST UTILITY VAULT TO GRADE.
 - 13 CONNECT TO EXISTING DRAINAGE STRUCTURE.
 - 14 INSTALL 4" WHITE PLASTIC LINE.
 - 15 EXTRUDED CONC. CURB PER DETAIL SHEET MD1.
 - 16 REFER TO UT SHEETS FOR UNDERGROUNDING PLANS AND DETAILS.
 - 17 REFER TO SHEETS WP1 & WD1 FOR WALL PLANS AND DETAILS.
 - 18 REFER TO SHEETS WA1 & WA2 FOR WATER PLAN & DETAILS.
 - 19 INSTALL PAINTED TRAFFIC ARROW.
 - 20 INSTALL PAINTED TRAFFIC LETTER(S) "STOP".
 - 21 INSTALL PAINTED STOP LINE.
 - 22 ILLUMINATION SYSTEM, SEE ILLUMINATION PLANS, TYP.
 - 23 REMOVE EXISTING HYDRANT. CLOSE VALVE, REMOVE EXISTING HYDRANT. CAP HYDRANT LINE WITH RESTRAINED DI CAP AND THRUST BLOCK.
 - 24 FURNISH AND PLACE CONCRETE BARRIER TYPE 2 AROUND POLE AS DIRECTED BY THE ENGINEER.

- GENERAL NOTES:**
1. ALL GRATING, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK MUST HAVE SLIP RESISTANT SURFACES, BE FLUSH WITH SURFACE AND MATCH GRADE, AND BE ORIENTED SQUARE TO CURB.
 2. ALL WORK TO BE IN ACCORDANCE WITH THE WSDOT STANDARD PLANS, SPECIFICATIONS, AND ASSOCIATED SPECIAL PROVISIONS, UNLESS OTHERWISE NOTED.
 3. THE CONTRACTOR IS RESPONSIBLE FOR SEQUENCING OF THE UTILITY REMOVALS.
 4. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE STORM DRAINAGE SYSTEM.

MATCHLINE STA 105+75 SEE SHEET PP2



Mar 08, 2016 - 4:00pm MickeyC, X:\Kenmore, City of Kenmore, 181st St South Side Sidewalk\CAD\20120170 PP.dwg, Layout Name: PP1

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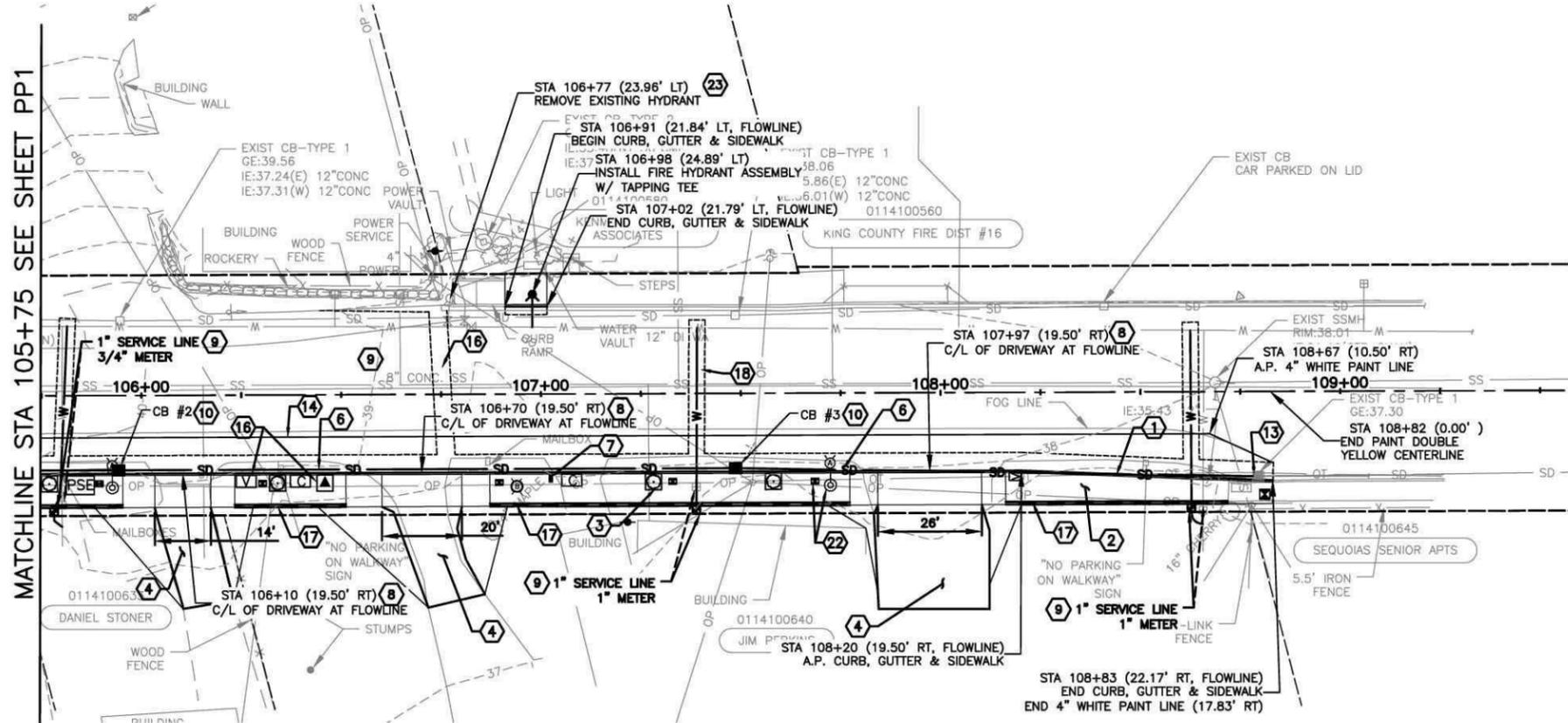
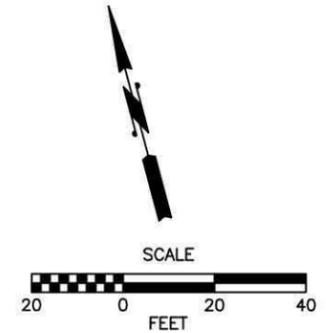


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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Checked By | DD |
| Checked By | DD | Approved By | DD |
| Approved By | | Project Number | |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
PLAN & PROFILE

Drawing No. **PP1**
 Sheet No. **6** of **31**

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

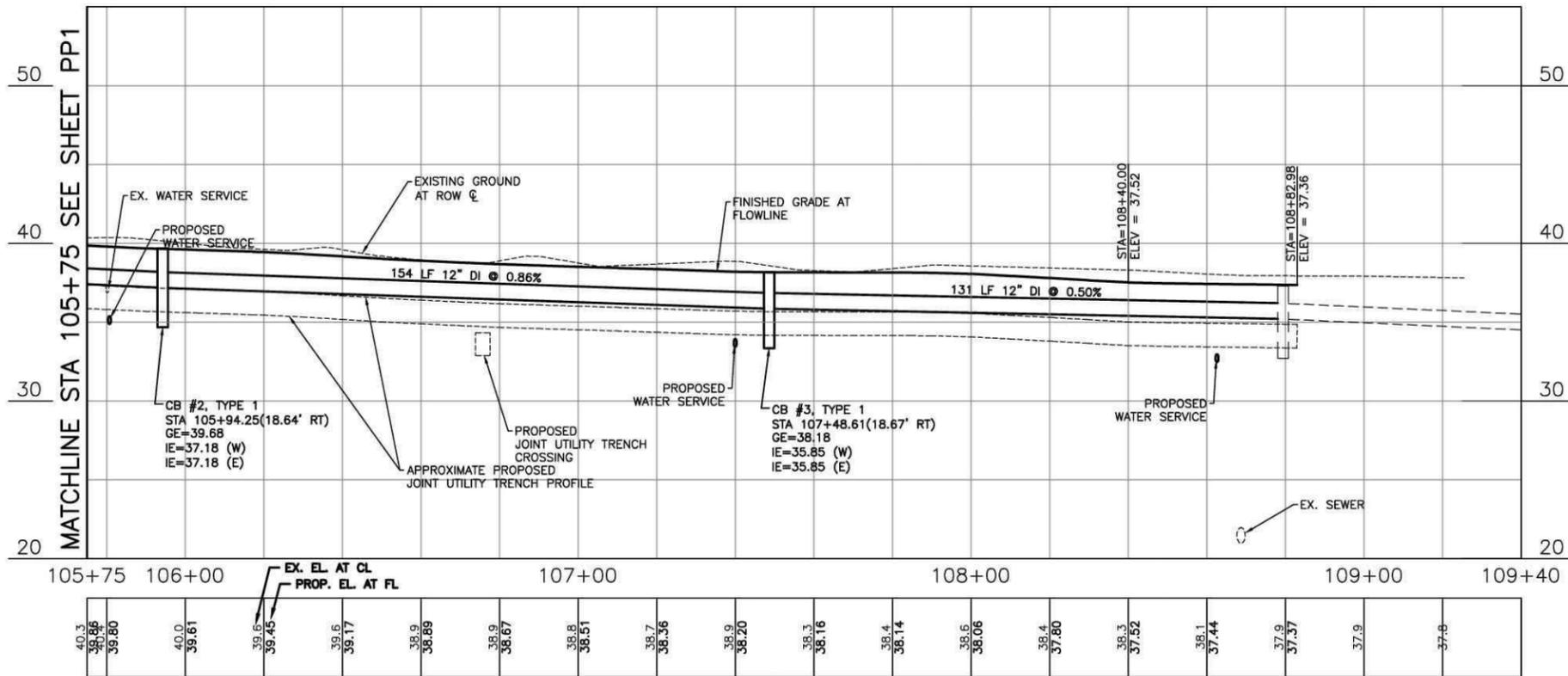


CONSTRUCTION NOTES:

- 1 CONSTRUCT CEMENT CONC. VERTICAL CURB AND GUTTER, PER WSDOT STD. PLAN F-10.12-03.
- 2 CEMENT CONC. SIDEWALK, PER TS1.
- 3 INSTALL STREET TREE AND TREE GRATE TYP. SEE IRRIGATION & PLANTING PLAN (TYP).
- 4 CONSTRUCT DRIVEWAY APPROACH PER TS1.
- 5 ABANDON IN PLACE EXISTING IRRIGATION SYSTEM.
- 6 INSTALL DUCTILE IRON STORM SEWER PIPE, 12" DIAM.
- 7 INSTALL MAILBOX UNIT PER KCDCS FIG. 5-017.
- 8 CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE TYPE 2 PER MD1.
- 9 REPLACE EXISTING WATER SERVICE WITH NEW, SIZE AS INDICATED. REMOVE AND DISPOSE OF EXISTING METER BOX AND CLOSE EXISTING CORPORATION STOP AT MAIN. RECONNECT EXISTING SERVICE LINE. SEE NUD STANDARD DETAILS AND SPECIFICATIONS. COORDINATE WITH NUD FOR METER REMOVAL AND REINSTALLATION.
- 10 INSTALL CATCH BASIN TYPE 1, PER KCDCS FIG. 7-003.
- 11 POWER VAULT TO BE ADJUSTED BY PSE.
- 12 ADJUST UTILITY VAULT TO GRADE.
- 13 CONNECT TO EXISTING DRAINAGE STRUCTURE.
- 14 INSTALL 4" WHITE PLASTIC LINE.
- 15 EXTRUDED CONC. CURB PER DETAIL SHEET MD1.
- 16 REFER TO UT SHEETS FOR UNDERGROUNDING PLANS AND DETAILS.
- 17 REFER TO SHEETS WP1 & WD1 FOR WALL PLANS AND DETAILS.
- 18 REFER TO SHEETS WA1 & WA2 FOR WATER PLAN & DETAILS.
- 19 INSTALL PAINTED TRAFFIC ARROW.
- 20 INSTALL PAINTED TRAFFIC LETTER(S) "STOP".
- 21 INSTALL PAINTED STOP LINE.
- 22 ILLUMINATION SYSTEM, SEE ILLUMINATION PLANS, TYP.
- 23 REMOVE EXISTING HYDRANT. CLOSE VALVE, REMOVE EXISTING HYDRANT, CAP HYDRANT LINE WITH RESTRAINED DI CAP AND THRUST BLOCK.
- 24 FURNISH AND PLACE CONCRETE BARRIER TYPE 2 AROUND POLE AS DIRECTED BY THE ENGINEER.

GENERAL NOTES:

1. ALL GRATING, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK MUST HAVE SLIP RESISTANT SURFACES, BE FLUSH WITH SURFACE AND MATCH GRADE, AND BE ORIENTED SQUARE TO CURB.
2. ALL WORK TO BE IN ACCORDANCE WITH THE WSDOT STANDARD PLANS, SPECIFICATIONS, AND ASSOCIATED SPECIAL PROVISIONS, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR IS RESPONSIBLE FOR SEQUENCING OF THE UTILITY REMOVALS.
4. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE STORM DRAINAGE SYSTEM.



| Station | Prop. El. at CL | Ex. El. at CL |
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| 105+75 | 39.80 | 40.3 |
| 106+00 | 39.61 | 40.0 |
| 107+00 | 38.67 | 39.5 |
| 108+00 | 38.06 | 38.9 |
| 109+00 | 37.44 | 38.3 |
| 109+40 | 37.8 | 37.9 |

Mar 08, 2016 - 4:00pm MickeyC, X:\Kenmore, City of Kenmore, 181st St South Side Sidewalk\CAD\20120170 PP.dwg Layout Name: PP2

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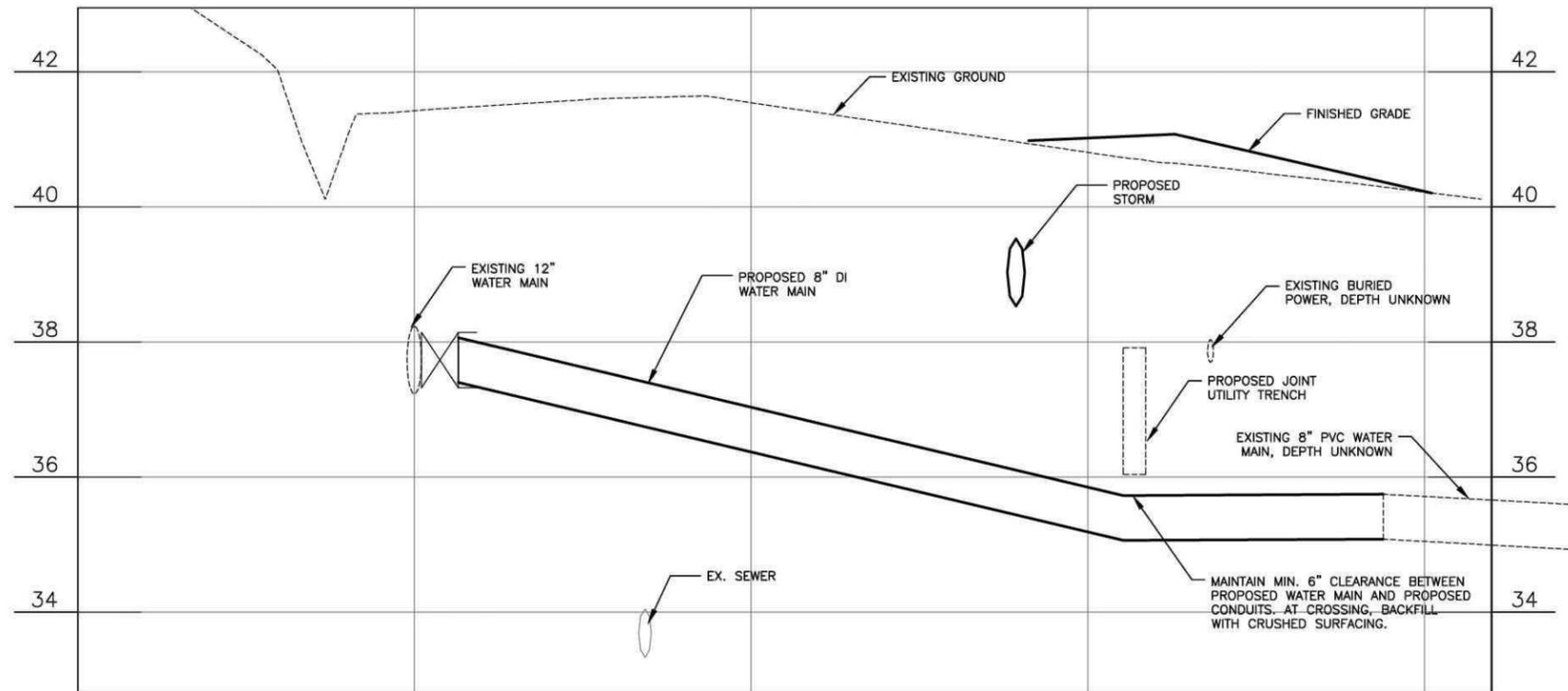
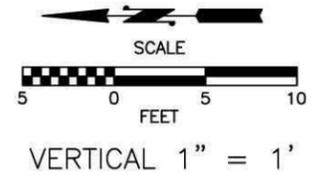
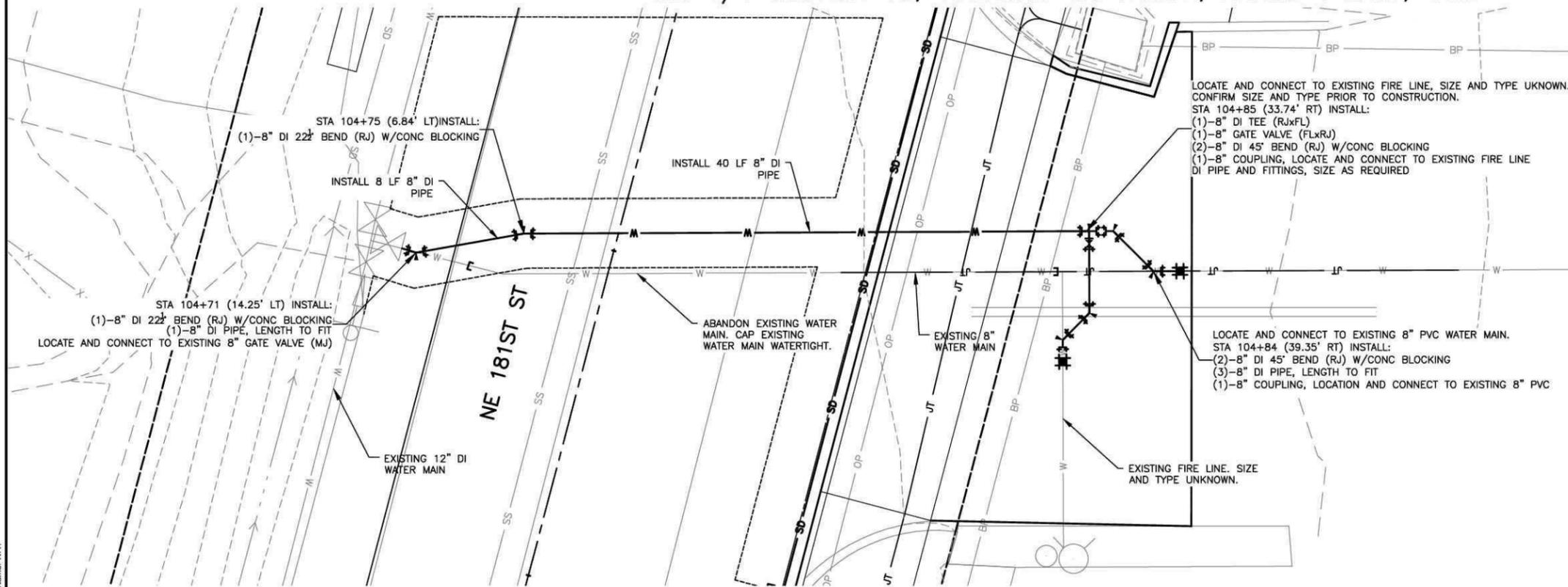


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| Designed By | CP | | |
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CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
PLAN & PROFILE

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| Drawing No. | PP2 |
| Sheet No. | 7 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



WATERLINE PROFILE

GENERAL NOTES:

1. ALL WATER MAIN JOINTS SHALL BE RESTRAINED.
2. CONTRACTOR TO COORDINATE WITH NORTHSORE UTILITY DISTRICT.
3. POT HOLE EXISTING 12" DI WATER MAIN AND 8" PVC WATER MAIN AT CONNECTION POINTS IN ORDER TO DETERMINE VERTICAL ALIGNMENT REQUIRED TO AVOID CONFLICT WITH JOINT UTILITY TRENCH.

Mar 08, 2016 - 4:01 pm Mickey C. X:\Kenmore_City_of\Projects\2017\1701 - Professional Services\Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\201701 WA.dwg Layout Name: WA1

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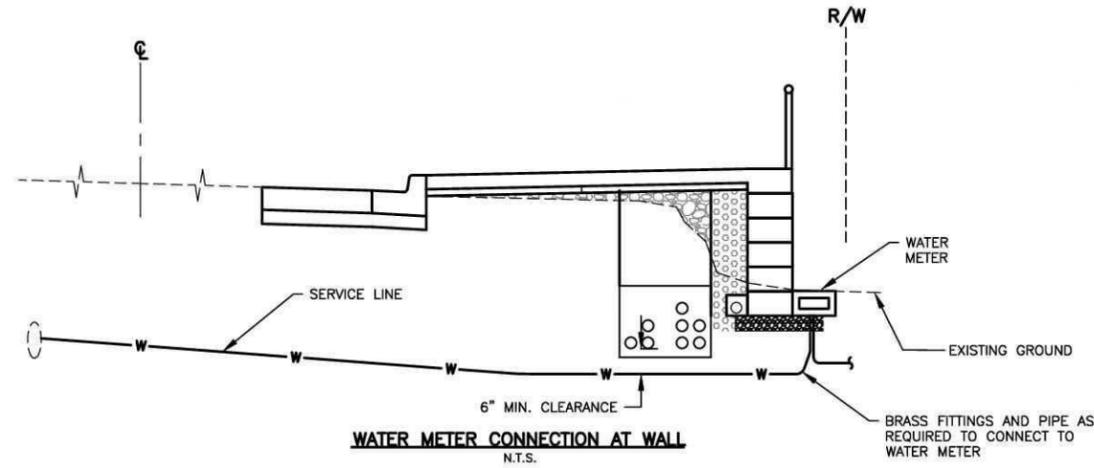
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| Designed By | CP | | |
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| Approved By | | | |

Project Number

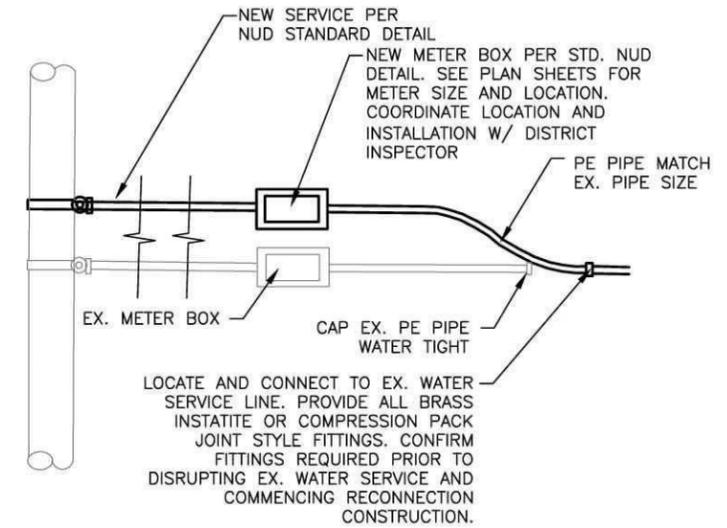
CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
WATER PLAN & PROFILE

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| Sheet No. | 8 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



WATER METER CONNECTION AT WALL
N.T.S.



8" WM SERVICE RECONNECTION
N.T.S.

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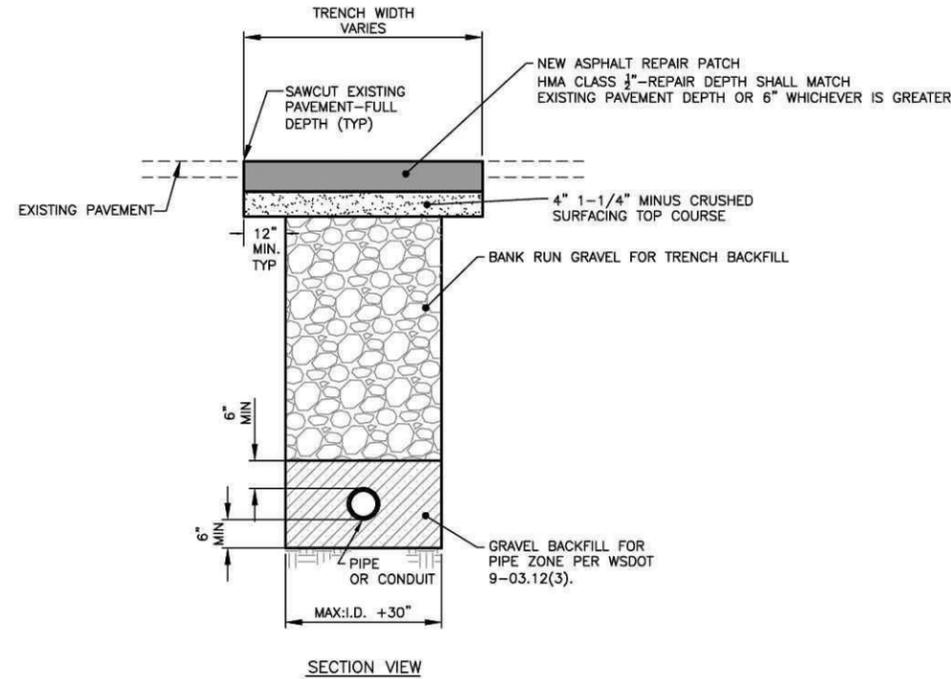
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| Designed By | CP | | |
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Project Number

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
WATER DETAILS

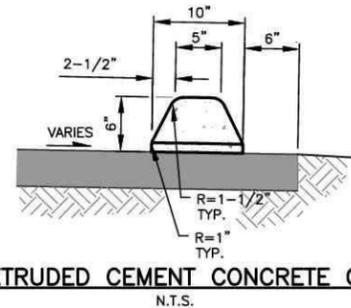
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| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



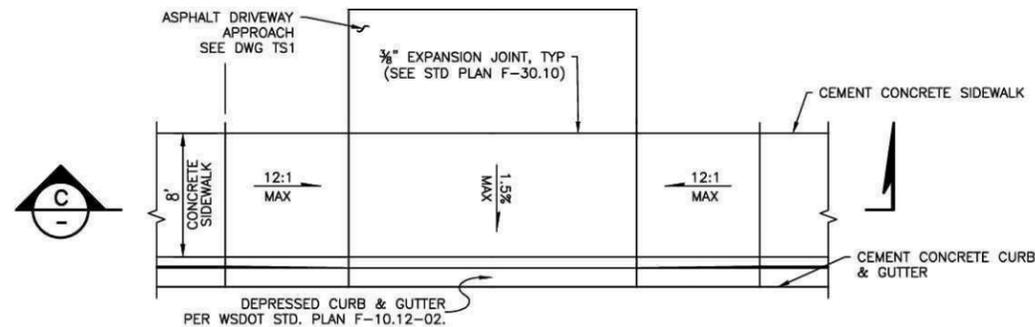
- NOTES:
- EXISTING ASPHALT PAVEMENT MUST BE SAWCUT TO PROVIDE A CLEAN STRAIGHT EDGE BEFORE PIPE PLACEMENT.
 - EXISTING MATERIAL DISTURBED UNDER THE PIPE SHALL BE REPLACED WITH BEDDING MATERIAL AND COMPACTED TO 95% MAX DENSITY.
 - BACKFILL MATERIAL SHALL BE INSTALLED IN AN APPROVED MANNER TO ENSURE NO DAMAGE TO THE PIPE.
 - REFER TO SHEETS UD2 AND UD3 FOR UTILITY TRENCH DETAILS.
 - ON CROSSINGS REQUIRED TO BE OPENED TO TRAFFIC, AND PRIOR TO FINAL RESTORATION, STEEL PLATES SHALL BE INSTALLED BY THE CONTRACTOR.

TYPICAL PAVEMENT REPAIR SECTION
N.T.S.

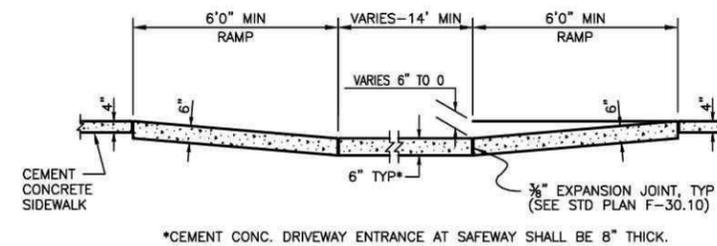


- SEE 2007 KING COUNTY ROAD STANDARDS SEC. 3.04 FOR JOINT REQUIREMENTS.
- EXTRUDED CEMENT CONCRETE CURB SHALL BE ANCHORED TO EXISTING PAVEMENT BY EITHER STEEL TIE BARS OR ADHESIVE IN CONFORMANCE WITH WSDOT/APWA STANDARD SPECIFICATION SECTION 8-04.

EXTRUDED CEMENT CONCRETE CURB
N.T.S.



CEMENT CONC. DRIVEWAY ENTRANCE
N.T.S.



SECTION C

Mar 08, 2016 - 4:01 pm M:\Kenmore_City of Projects\2017\170 - Professional Services Contract\12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\20170 MD.dwg Layout Name: MD1

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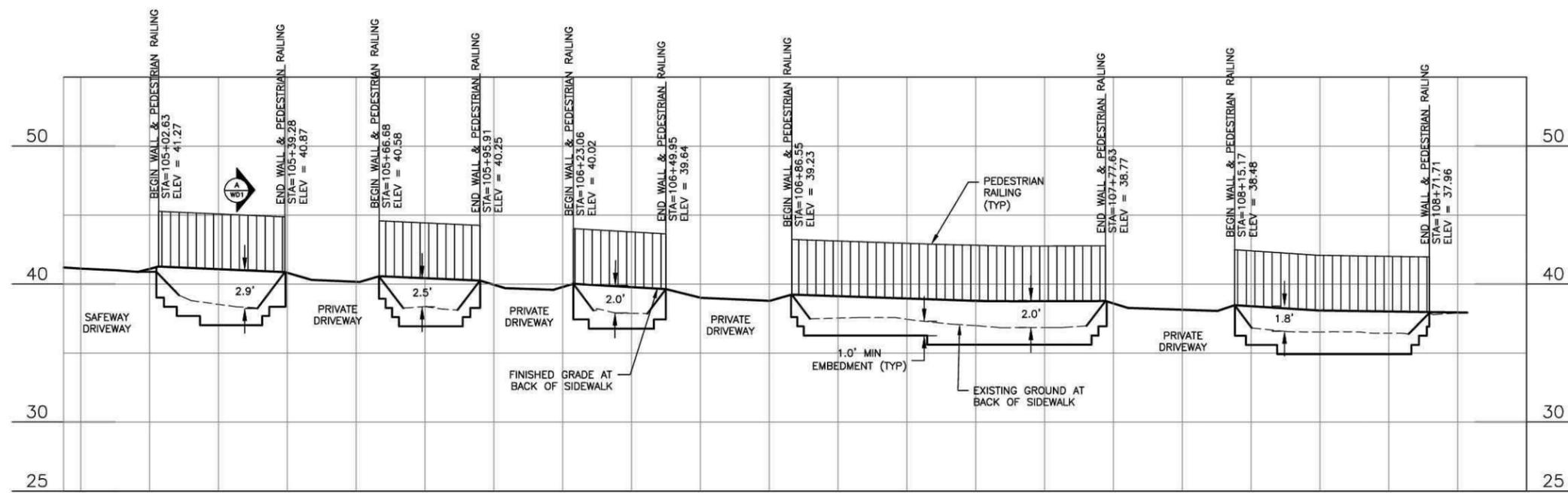
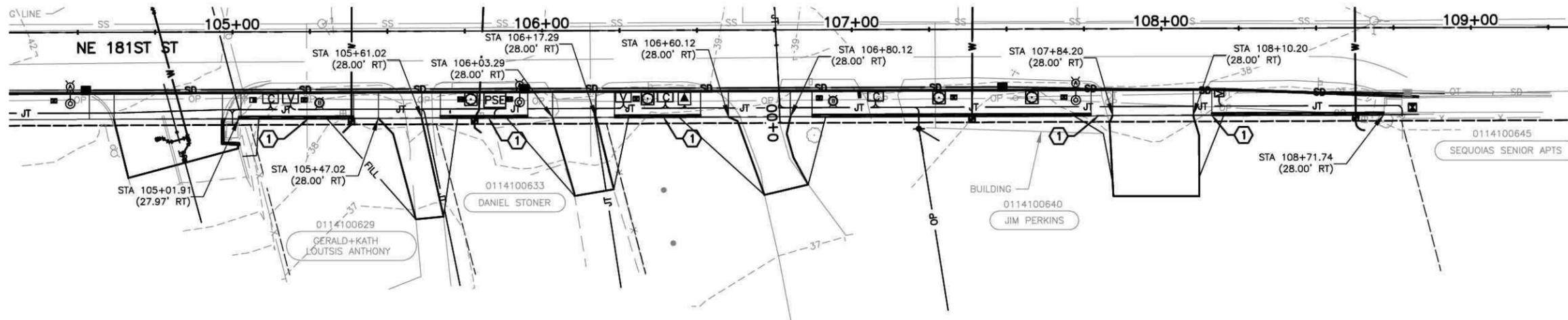
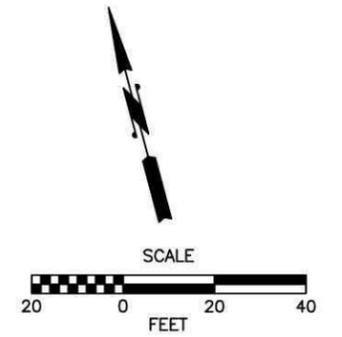
Drawn By: MC
Designed By: CP
Checked By: DD
Approved By: DD
Date: 03/08/16
Date: 03/08/16
Date: 03/08/16

Project Number

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
MISCELLANEOUS DETAILS

Drawing No. **MD1**
Sheet No. 10 of 31

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



WALL PROFILE

CONSTRUCTION NOTES:
 ① UNDERDRAIN PIPE THROUGH WALL AND DAYLIGHT. SEE DETAIL, SHEET WD1.

GENERAL NOTES:
 1. ALL CONSTRUCTION MUST CONFORM TO WALL MANUFACTURE'S SPECIFIC REQUIREMENTS.
 2. SEE SPECIAL PROVISIONS FOR WALL DESIGN REQUIREMENTS.
 3. SEE WALL DETAILS ON WD1.
 4. STATION, OFFSET, AND ELEVATION TOP OF SIDEWALK AT FACE OF WALL.
 5. SEE SECTION 8-05 OF THE SPECIAL PROVISIONS FOR PEDESTRIAN RAILING INFORMATION.

Mar 08, 2016 - 4:02pm Mickey C. X:\Kenmore, City of\Projects\2017\170 - Professional Services\12-C\1082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\20170170 WP.dwg Layout Name: WP1

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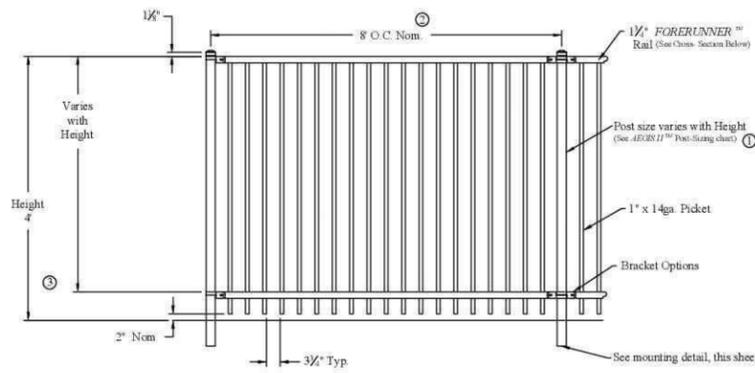


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| Approved By | DD | Date | 03/08/16 |

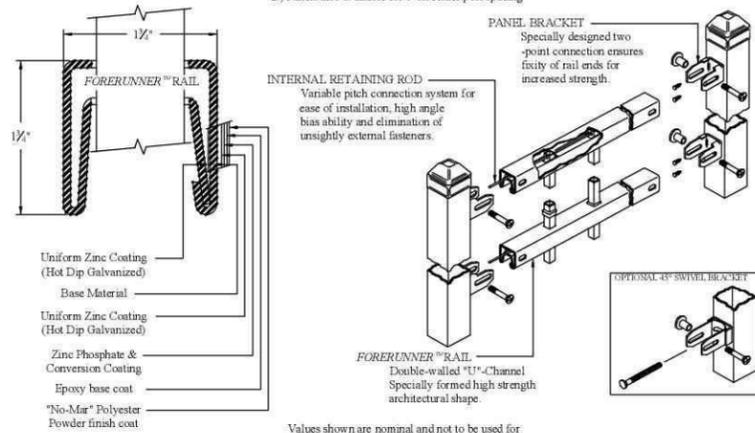
CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
WALL PROFILES

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| Drawing No. | WP1 |
| Sheet No. | 11 of 31 |

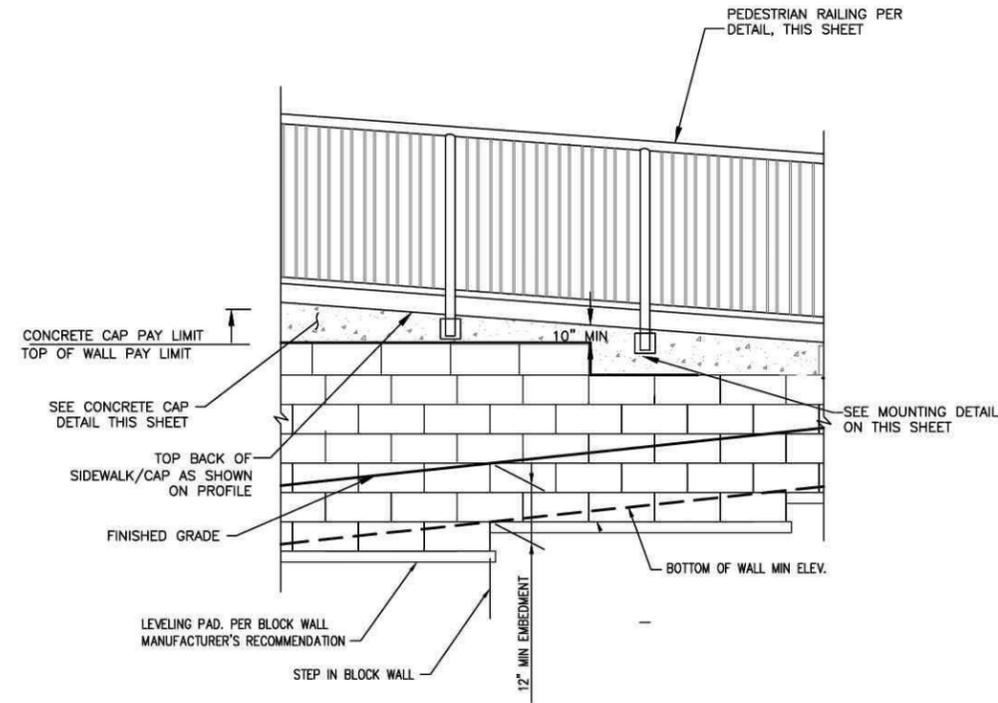
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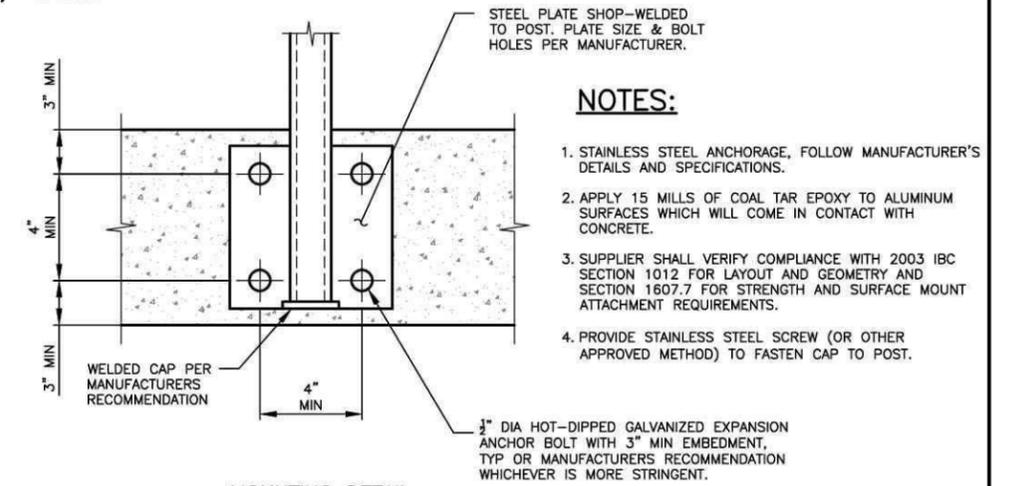
- NOTES:**
- 1.) Post size depends on fence height and wind loads. See AEGIS II™ post sizing chart.
 - 2.) Panels also available for 6' on center post spacing.



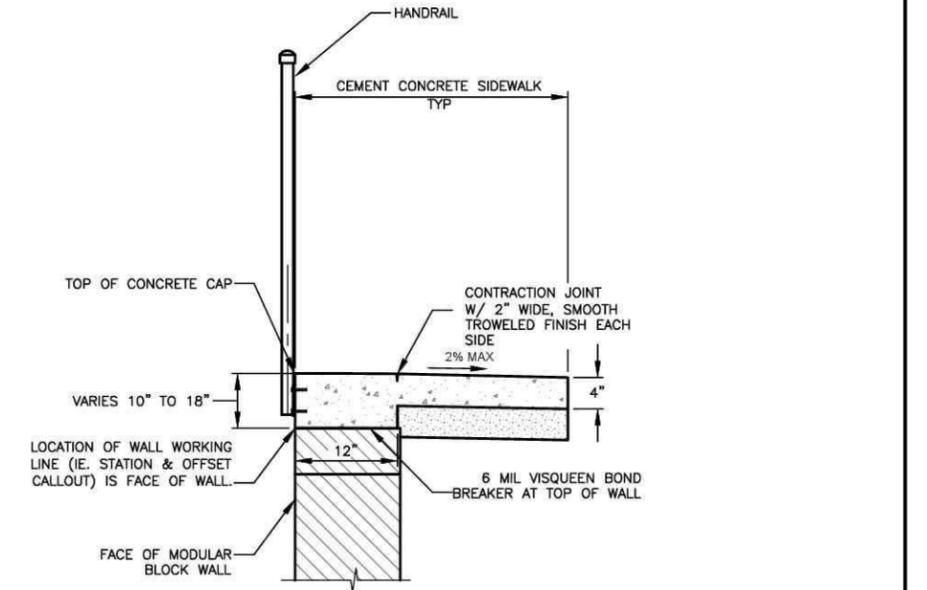
PEDESTRIAN RAILING
N.T.S.



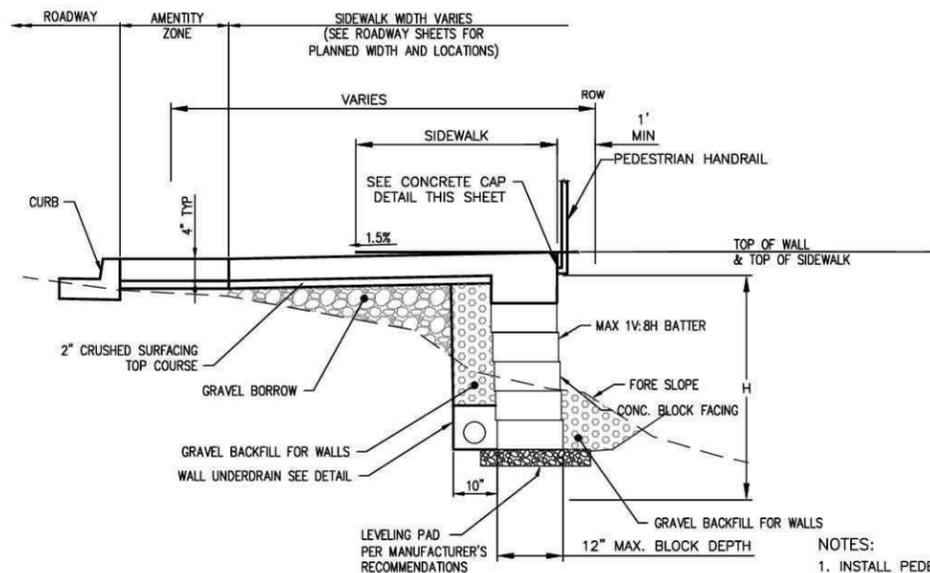
SOUTH WALLS - PARTIAL ELEVATION
N.T.S.



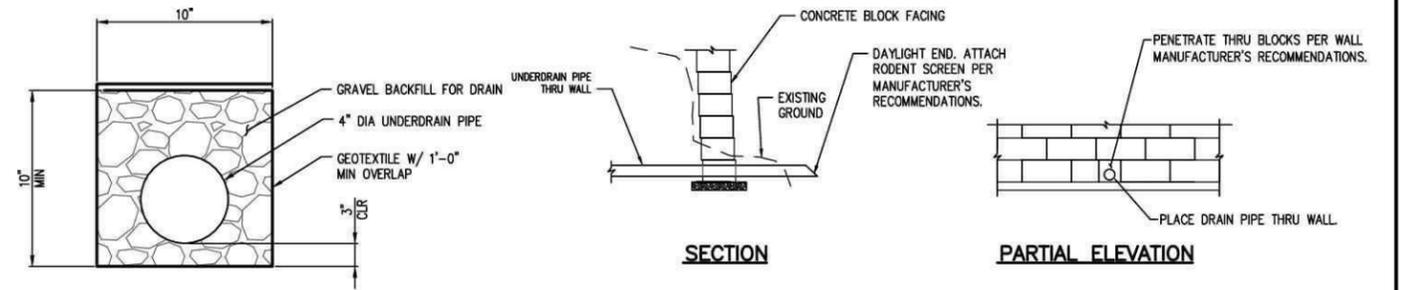
MOUNTING DETAIL
N.T.S.



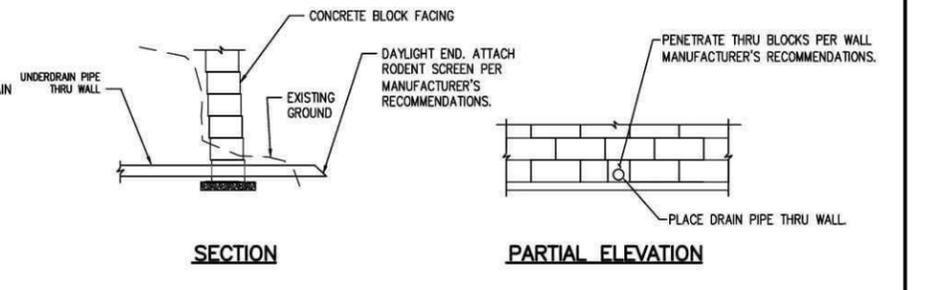
CONCRETE CAP DETAIL
N.T.S.



TOP OF WALL DETAIL WITH SIDEWALK & PEDESTRIAN RAILING
N.T.S.



WALL UNDERDRAIN DETAIL
N.T.S.



UNDERDRAIN THRU WALL
N.T.S.

- NOTES:**
1. INSTALL PEDESTRIAN RAILING PER MANUFACTURER'S RECOMMENDATIONS.
 2. WALL BATTER VARIES WITH MANUFACTURER & BLOCK TYPE. WALL SYSTEM USED SHALL BE MANUFACTURER'S NEAR VERTICAL SYSTEM.

Mar 08, 2016 - 4:02pm Mickey C. X:\Kenmore, City of\Projects\2017\170 - Professional Services\Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\170 WD.dwg Layout Name: WD1

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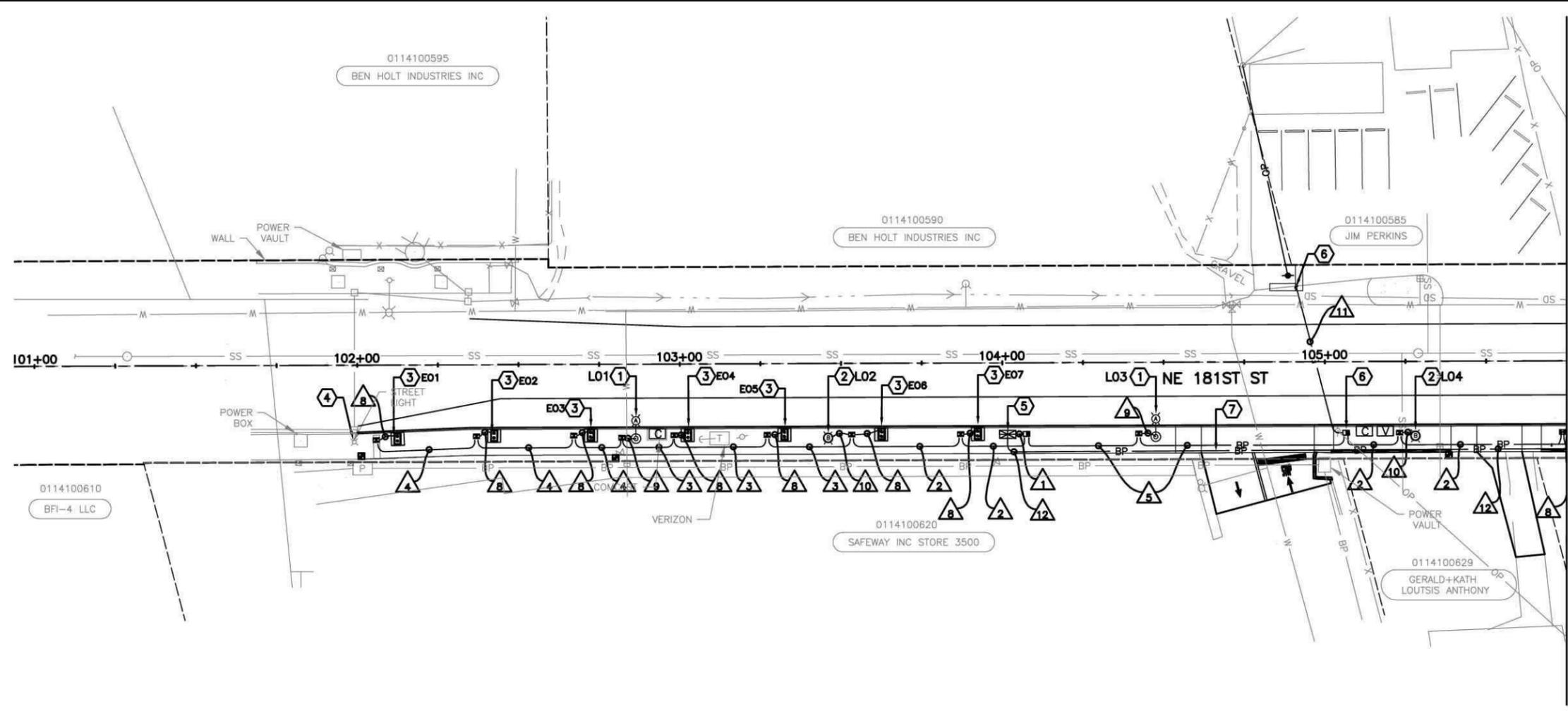
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Designed By: CP
Checked By: DD
Approved By: DD

Project Number

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
WALL DETAILS

Drawing No. **WD1**
Sheet No. 12 of 31

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CONSTRUCTION NOTES:

- 1 CONSTRUCT TOP OF FOUNDATION FLUSH WITH SIDEWALK FINISHED GRADE AND INSTALL ROADWAY LUMINAIRE POLE, BRACKET ARM, AND FIXTURE PER LUMINAIRE SCHEDULE. SEE DETAIL 1 ON IL3.
- 2 CONSTRUCT TOP OF FOUNDATION FLUSH WITH SIDEWALK FINISHED GRADE AND INSTALL PEDESTRIAN LUMINAIRE POLE AND FIXTURE PER LUMINAIRE SCHEDULE. SEE DETAIL 2 ON IL3.
- 3 INSTALL EXTERIOR OUTLET IN TREE PIT. DETAIL 4 ON IL3.
- 4 PROTECT EXISTING LUMINAIRE.
- 5 CONSTRUCT FOUNDATION AND INSTALL 200 AMP, 240V, SINGLE PHASE, TYPE ES-2EU SERVICE CABINET. SEE SHEET IL4 FOR CABINET DETAILS. COORDINATE WITH PSE FOR POWER CONNECTION. CABINET PLACEMENT SHALL BE SO THAT IT LINES UP WITH TREE PITS, KEEP OUT OF PEDESTRIAN ACCESS ROUTE. LOCATION TO BE FIELD VERIFIED BY ENGINEER.
- 6 INSTALL TYPE 2 JUNCTION BOX. ROUTE 2-2" CONDUITS ACROSS NE 181ST STREET WITHIN JUT AND INSTALL 90° BENDS POINTING UPWARD AND CAPPED AT THE BASE OF THE NEW POLE..
- 7 CONTRACTOR TO COORDINATE ELECTRICAL SERVICE CABINET CONNECTION TO PSE VAULT.
- 8 STUB-OUT AND CAP ONE 2-INCH CONDUIT HEADING EAST FOR FUTURE USE.

LEGEND

- ROADWAY LUMINAIRE
- PEDESTRIAN LUMINAIRE
- OUTLET IN TREE PIT
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- SERVICE CABINET
- ILLUMINATION CONDUIT

GENERAL NOTES

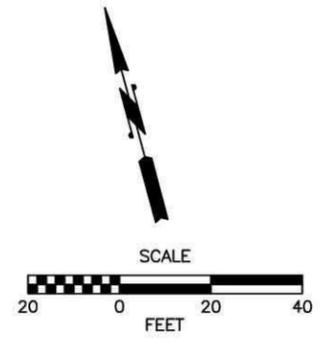
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE 2014 EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. LOCATION OF UTILITIES SHOWN ON PLANS ARE BASED ON BEST RECORDS AVAILABLE AND ARE SUBJECT TO VARIATION. CALL 1-800-424-5555 FOR ASSISTANCE IN UTILITY LOCATION.
3. ALL NEW CONDUIT SHALL BE SCHEDULE 40 PVC AND SHALL BE PLACED IN THE SAME TRENCH WITH OTHER CONDUIT WHEN POSSIBLE. SEE UTILITY CONVERSION PLANS (UD SHEETS) FOR TRENCH LOCATIONS.
4. ALL LUMINAIRE POLES SHALL BE LOCATED A MINIMUM OF 3 FT. FROM FACE OF CURB TO CENTER OF LUMINAIRE POLE.
5. REFER TO SHEET IL3 FOR ONE-LINE DIAGRAM AND CIRCUITRY OF OUTLETS ON LUMINAIRE POLE AND EXTERIOR OUTLETS IN TREE PIT.
6. ALL TYPE 1 AND TYPE 2 JUNCTION BOXES SHALL BE PER WSDOT STD PLAN J-40.10-03. ALL JUNCTION BOXES LIDS SHALL BE LABELED "CITY LIGHT".
7. ILLUMINATION JUNCTION BOXES, PULL BOXES, AND CABLE VAULTS SHALL BE KEPT OUT OF THE PEDESTRIAN ACCESS ROUTE AND SHALL HAVE A SLIP RESISTANT SURFACE LID PER THE SPECIAL PROVISIONS. FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.
8. SEE UTILITY CONVERSION PLANS (UD SHEETS) FOR ADDITIONAL DETAILS.

| WIRE SCHEDULE | | | | | |
|---------------|--------------|------------|-----|---------|-------------------------|
| X NO. | CONDUIT SIZE | CONDUCTORS | | CIRCUIT | COMMENTS |
| | | EXISTING | NEW | | |
| 1 | 2" | | 2#8 | A | ROADWAY ILLUMINATION |
| | | | 2#8 | B | PEDESTRIAN ILLUMINATION |
| | | | 2#8 | F | OUTLETS SOUTH |
| | | | 2#8 | H | OUTLETS POLE |
| | 2" | | | | SPARE |
| 2 | 2" | | 2#8 | A | ROADWAY ILLUMINATION |
| | | | 2#8 | B | PEDESTRIAN ILLUMINATION |
| | | | 2#8 | F | OUTLETS SOUTH |
| | | | 2#8 | H | OUTLETS POLE |
| 3 | 2" | | 2#8 | A | ROADWAY ILLUMINATION |
| | | | 2#8 | F | OUTLETS SOUTH |
| | | | 2#8 | H | OUTLETS POLE |
| | | | 2#8 | F | OUTLETS SOUTH |
| 5 | 2" | | 2#8 | A | ROADWAY ILLUMINATION |
| | | | 2#8 | B | PEDESTRIAN ILLUMINATION |
| | | | 2#8 | F | OUTLETS SOUTH |
| | | | 2#8 | H | OUTLETS POLE |

| WIRE SCHEDULE | | | | | |
|---------------|--------------|------------|-----|---------|--------------------------|
| X NO. | CONDUIT SIZE | CONDUCTORS | | CIRCUIT | COMMENTS |
| | | EXISTING | NEW | | |
| 6 | 2" | | 2#8 | A | ROADWAY ILLUMINATION |
| 7 | 2" | | 2#8 | F | OUTLETS SOUTH |
| 8 | 1" | | 2#8 | F | OUTLETS SOUTH |
| 9 | 1" | | 2#8 | A | ROADWAY ILLUMINATION |
| 10 | 1" | | 2#8 | H | OUTLETS POLE |
| 11 | 2" | | | | SPARE |
| 12 | 3" | | | | SEE CONSTRUCTION NOTE #7 |

| LUMINAIRE SCHEDULE | | | | | | | |
|--------------------|---------------------|----------|------------|-----------------|---------|-----------|--|
| POLE NO. | STATION | OFFSET | ARM LENGTH | MOUNTING HEIGHT | CIRCUIT | BASE TYPE | LUMINAIRE TYPE |
| L01 | 102+86.50 | 23.0' RT | 2' | 35' | A | SLIP | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L02 | 103+46.00 | 23.0' RT | N/A | 14' | B | FIXED | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L03 | 104+47.50 | 23.0' RT | 2' | 35' | A | SLIP | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L04 | 105+28.00 | 23.0' RT | N/A | 14' | B | FIXED | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L05 | 105+92.00 | 23.0' RT | 2' | 35' | A | SLIP | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L06 | 106+94.00 | 23.0' RT | N/A | 14' | B | FIXED | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| L07 | 107+76.00 | 23.0' RT | 2' | 35' | A | SLIP | SEE LUMINAIRE SPECIFICATION TABLE ON IL2 |
| E01 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E02 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E03 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E04 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E05 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E06 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E07 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E08 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E09 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |
| E10 | SEE LANDSCAPE PLANS | | | | F | | EXTERIOR OUTLET |

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1 800 424-5555
 UTILITIES UNDERGROUND LOCATION CENTER



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 CITY OF KENMORE

MARIO ALBERTO MACIAS
 STATE OF WASHINGTON
 REGISTERED PROFESSIONAL ENGINEER
 50475

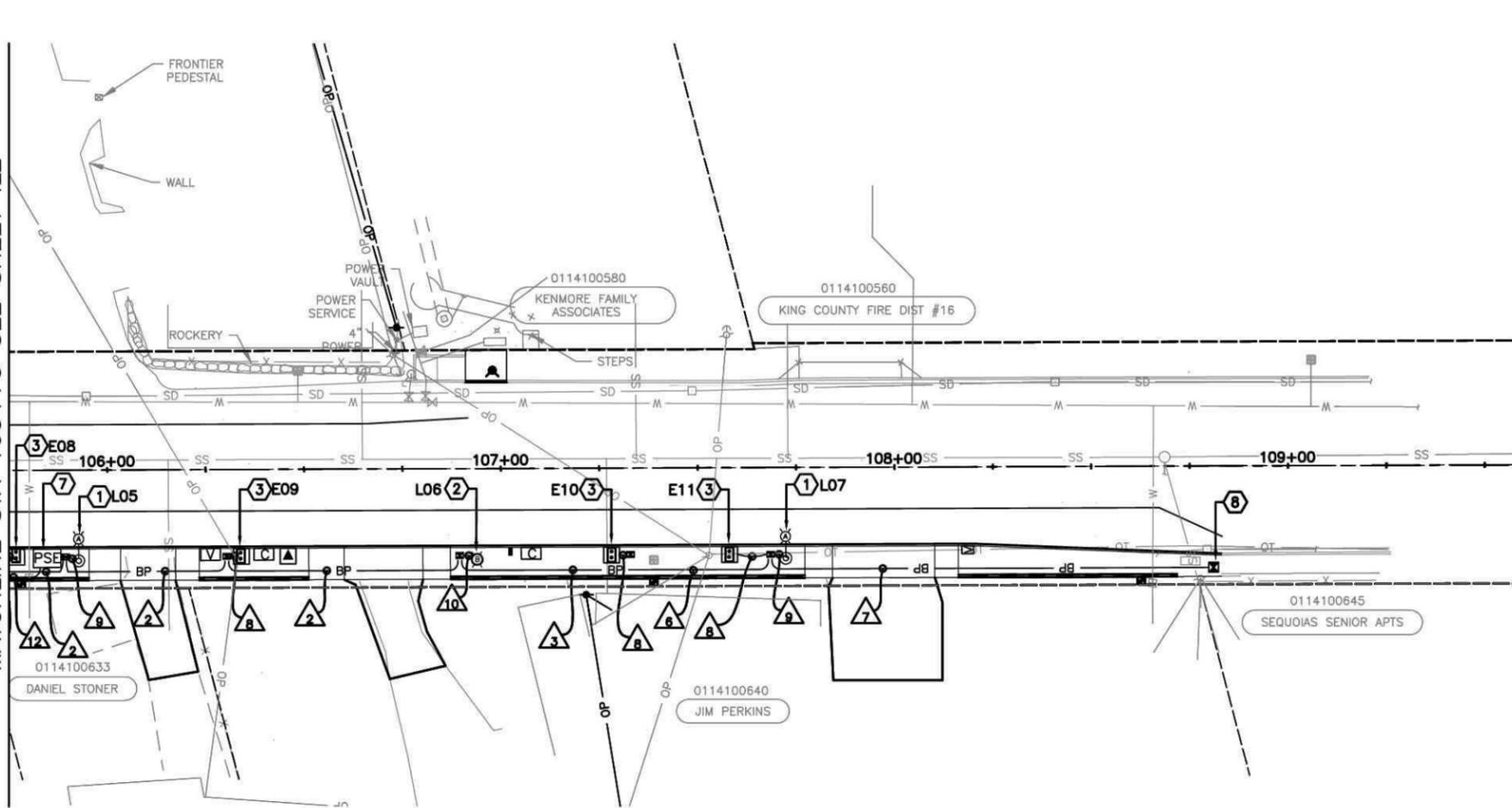
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 Checked By: DD Date: 03/08/16
 Approved By: DD Date: 03/08/16

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
ILLUMINATION PLAN

Drawing No. **IL1**
 Sheet No. 13 of 31

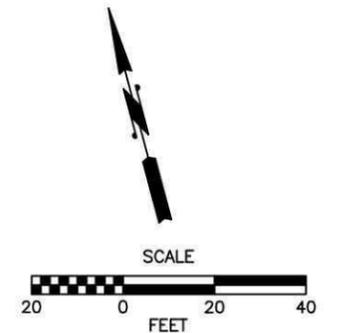
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MATCHLINE STA 105+75 SEE SHEET IL2



LEGEND

- ROADWAY LUMINAIRE
- PEDESTRIAN LUMINAIRE
- OUTLET IN TREE PIT
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- SERVICE CABINET
- ILLUMINATION CONDUIT



GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE 2014 EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. LOCATION OF UTILITIES SHOWN ON PLANS ARE BASED ON BEST RECORDS AVAILABLE AND ARE SUBJECT TO VARIATION. CALL 1-800-424-5555 FOR ASSISTANCE IN UTILITY LOCATION.
3. ALL NEW CONDUIT SHALL BE SCHEDULE 40 PVC AND SHALL BE PLACED IN THE SAME TRENCH WITH OTHER CONDUIT WHEN POSSIBLE. SEE UTILITY CONVERSION PLANS (UD SHEETS) FOR TRENCH LOCATIONS.
4. ALL LUMINAIRE POLES SHALL BE LOCATED A MINIMUM OF 3 FT. FROM FACE OF CURB TO CENTER OF LUMINAIRE POLE.
5. REFER TO SHEET IL3 FOR ONE-LINE DIAGRAM AND CIRCUITRY OF OUTLETS ON LUMINAIRE POLE AND EXTERIOR OUTLETS IN TREE PIT.
6. ALL TYPE 1 AND TYPE 2 JUNCTION BOXES SHALL BE PER WSDOT STD PLAN J-40.10-03. ALL JUNCTION BOXES LIDS SHALL BE LABELED "CITY LIGHT".
7. ILLUMINATION JUNCTION BOXES, PULL BOXES, AND CABLE VAULTS SHALL BE KEPT OUT OF THE PEDESTRIAN ACCESS ROUTE AND SHALL HAVE A SLIP RESISTANT SURFACE LID PER THE SPECIAL PROVISIONS. FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.
8. SEE UTILITY CONVERSION PLANS (UD SHEETS) FOR ADDITIONAL DETAILS.

CONSTRUCTION NOTES:

1. CONSTRUCT TOP OF FOUNDATION FLUSH WITH SIDEWALK FINISHED GRADE AND INSTALL ROADWAY LUMINAIRE POLE, BRACKET ARM, AND FIXTURE PER LUMINAIRE SCHEDULE. SEE DETAIL 1 ON IL3.
2. CONSTRUCT TOP OF FOUNDATION FLUSH WITH SIDEWALK FINISHED GRADE AND INSTALL PEDESTRIAN LUMINAIRE POLE AND FIXTURE PER LUMINAIRE SCHEDULE. SEE DETAIL 2 ON IL3.
3. INSTALL EXTERIOR OUTLET IN TREE PIT. DETAIL 4 ON IL3.
4. PROTECT EXISTING LUMINAIRE.
5. CONSTRUCT FOUNDATION AND INSTALL 200 AMP, 240V, SINGLE PHASE, TYPE ES-2EU SERVICE CABINET. SEE SHEET IL4 FOR CABINET DETAILS. COORDINATE WITH PSE FOR POWER CONNECTION. CABINET PLACEMENT SHALL BE SO THAT IT LINES UP WITH TREE PITS, KEEP OUT OF PEDESTRIAN ACCESS ROUTE. LOCATION TO BE FIELD VERIFIED BY ENGINEER.
6. INSTALL TYPE 2 JUNCTION BOX. ROUTE 2-2" CONDUITS ACROSS NE 181ST STREET WITHIN JUT AND INSTALL 90° BENDS POINTING UPWARD AND CAPPED AT THE BASE OF THE NEW POLE..
7. CONTRACTOR TO COORDINATE ELECTRICAL SERVICE CABINET CONNECTION TO PSE VAULT.
8. STUB-OUT AND CAP ONE 2-INCH CONDUIT HEADING EAST FOR FUTURE USE.

LUMINAIRE SPECIFICATION TABLE

| FIXTURE | | | | | | LUMINAIRE ARM | | POLE | | FINISH | TYPE OF BRACKET |
|---------|---|------------------------------|--------------------------|-----------------|-------------------------|--------------------------------------|----------------------------|--|----------------------------|---------------------------|-----------------------|
| TYPE | DESCRIPTION | MANUFACTURE CATALOG NUMBER | LAMP CONFIGURATION | NO. OF FIXTURES | TOTAL VOLTS PER FIXTURE | DESCRIPTION | MANUFACTURE CATALOG NUMBER | DESCRIPTION | MANUFACTURE CATALOG NUMBER | | |
| A | LITHONIA AERIS DECORATIVE ROADWAY LED LUMINAIRE | AS1-LED-1-63B30/40K-SR-3-240 | 63 LEDS, 109 W, TYPE III | 1 | 240 | LITHONIA AERIS DECORATIVE CURVED ARM | DCASDBXDU | VALMONT SQUARE STRAIGHT STEEL DECORATIVE ANCHOR BASE POLE (OR APPROVED EQUIVALENT) | 6" SQ-STR-7GA-HH-FP/GV-SB | POWDER COATED DARK BRONZE | BANNER |
| B | SELUX QUADRO H2 LED DECORATIVE PEDESTRIAN LUMINAIRE | QH2L-R5-1-4LT500-30-BZ-208 | 58W, TYPE V FULL CUTOFF | 1 | 240 | N/A | N/A | VALMONT SQUARE STRAIGHT STEEL DECORATIVE ANCHOR BASE POLE (OR APPROVED EQUIVALENT) | 4" SQ-STR-7GA-HH-FP/GV-FB | POWDER COATED DARK BRONZE | HANGING BASKET MOUNTS |

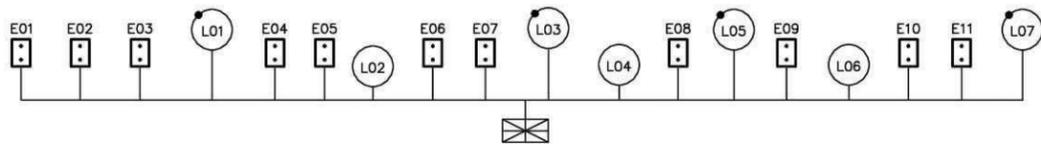
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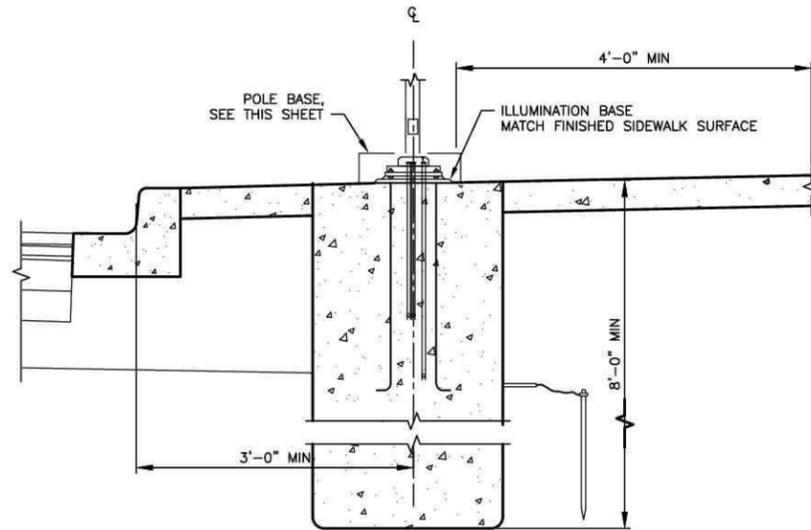
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| MM | 03/08/16 |
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| CITY OF KENMORE NE 181ST ST SOUTH SIDE SIDEWALK ILLUMINATION PLAN | Drawing No. |
| | IL2 |
| | Sheet No. 14 of 31 |

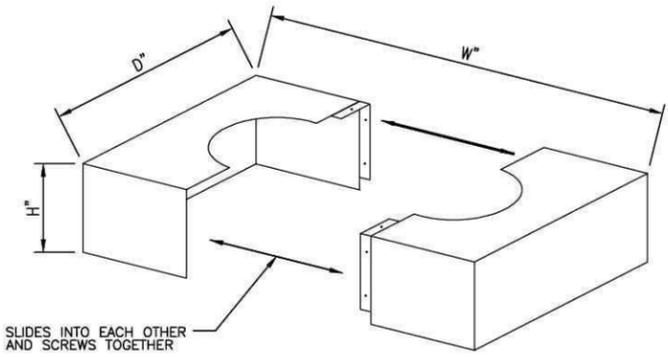


- LEGEND:**
- SERVICE CABINET
 - PEDESTRIAN LUMINAIRE W/O OUTLET
 - ROADWAY LUMINAIRE WITH OUTLET
 - OUTLET FIXTURE

ONE-LINE DIAGRAM
N.T.S.



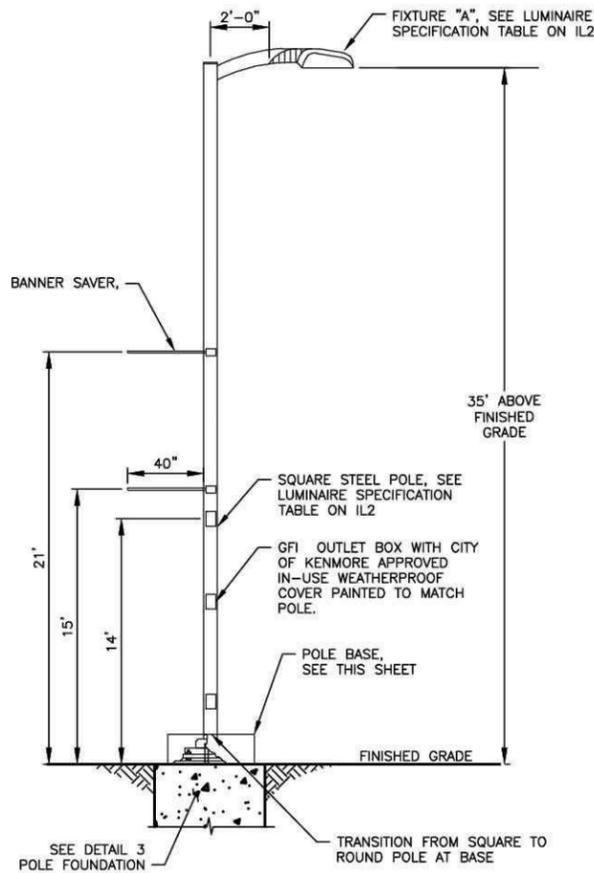
TYPICAL SIDEWALK SECTION AT LUMINAIRE POLES
N.T.S.



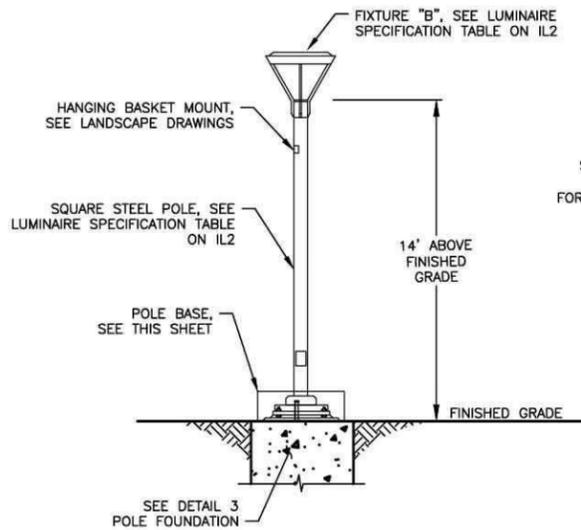
| DESCRIPTION | HEIGHT (H) | WIDTH (W) | DEPTH (D) | HOLE DIMENSION |
|---------------------------|------------|-----------|-----------|----------------|
| STREET LUMINAIRE POLE | 8" | 24" | 24" | 6" ROUND |
| PEDESTRIAN LUMINAIRE POLE | 8" | 24" | 24" | 4" SQ. |

(1) DIMENSIONS MAY VARY DEPENDING ON POLE BASE AND SLIP BASE ADAPTER.

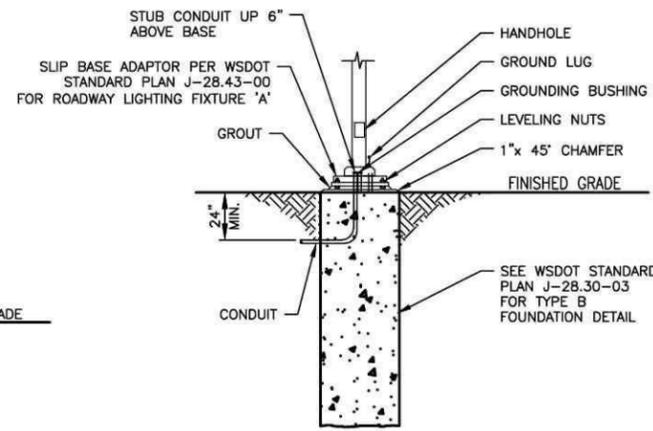
POLE BASE
N.T.S.



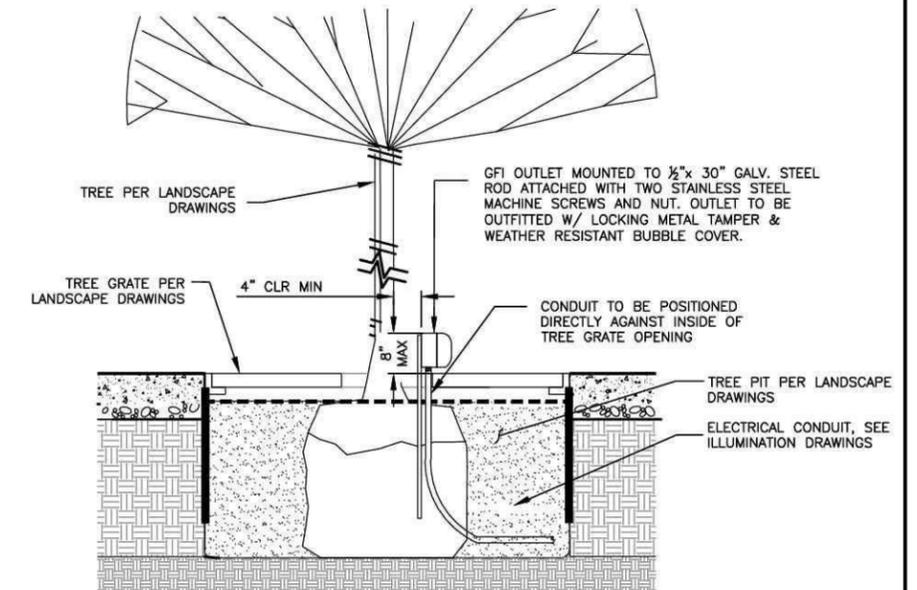
DETAIL 1 - POLE MOUNTED ROADWAY LIGHTING FIXTURE 'A'
N.T.S.



DETAIL 2 - POLE MOUNTED PEDESTRIAN LIGHTING FIXTURE 'B'
N.T.S.



DETAIL 3 - POLE FOUNDATION
N.T.S.



DETAIL 4 - EXTERIOR OUTLET IN TREE PIT
N.T.S.

Mar 08, 2016 - 4:03pm - MickeyC_X:\Kenmore_City of Projects\2017\170 - Professional Services Contract 12-C1082\027 - Kenmore NE 181st St South Side Sidewalk\CAD\2017\170 IL.dwg - Layout Name: IL3

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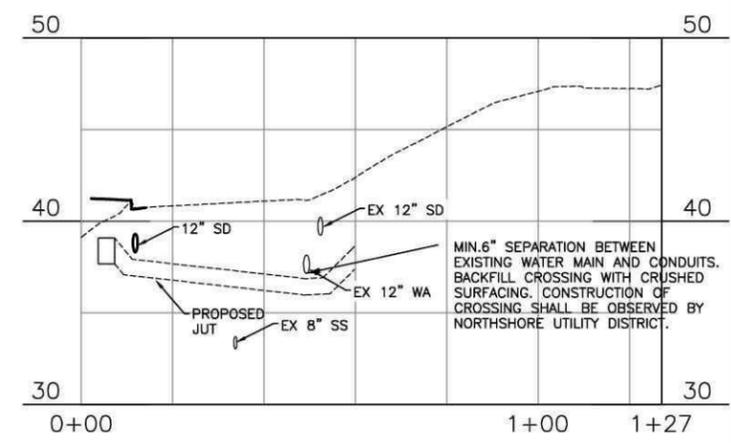
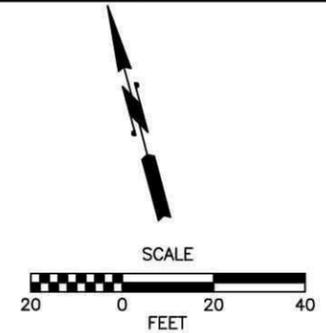
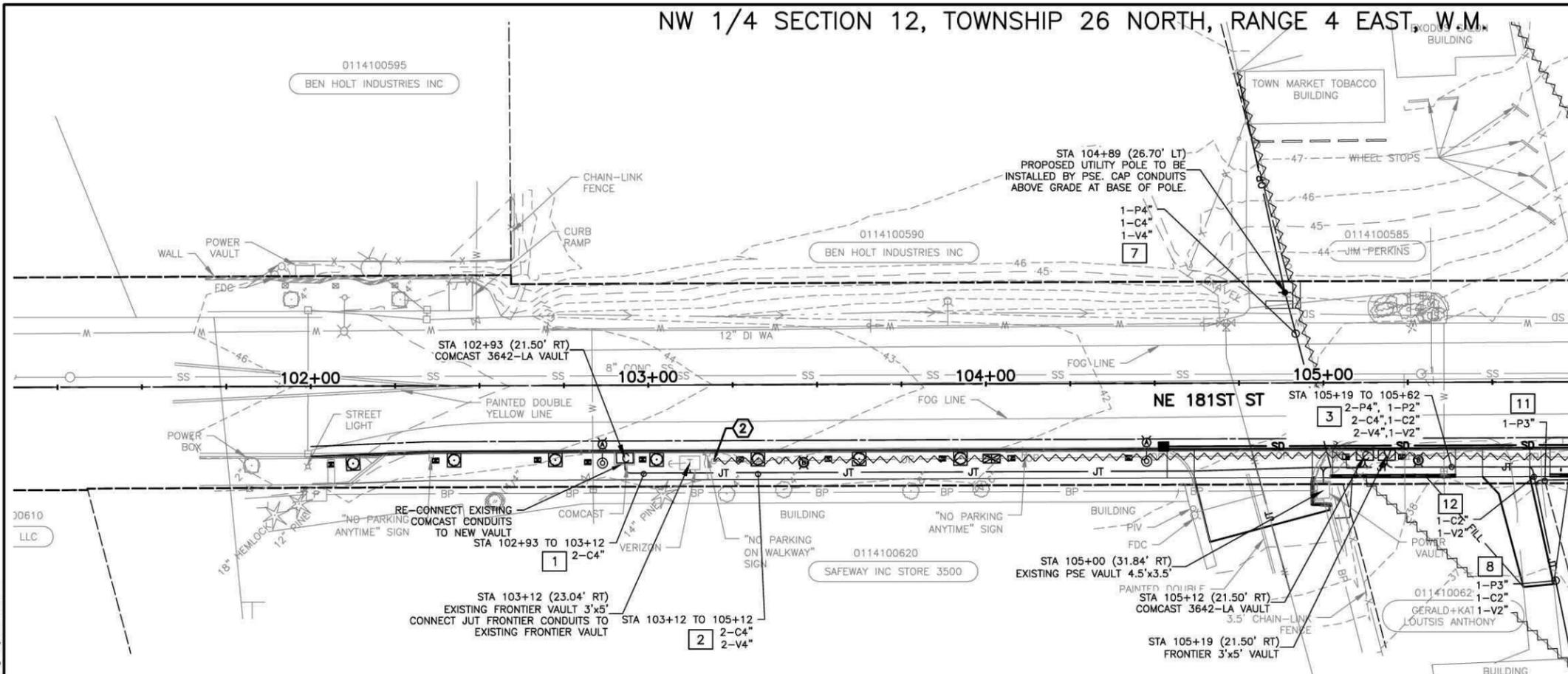
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| Designed By | MM | Date | 03/08/16 |
| Checked By | DD | Date | 03/08/16 |
| Approved By | | | |

Project Number

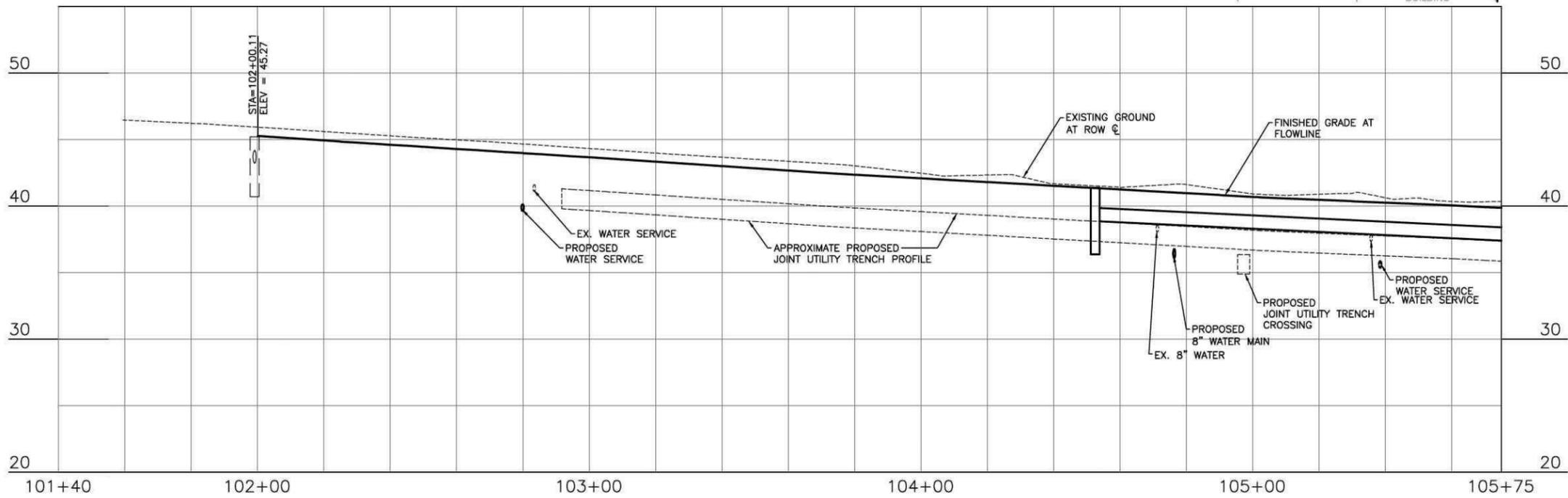
CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
ILLUMINATION DETAILS

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| Drawing No. | IL3 |
| Sheet No. | 15 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



STA 105+00 TRENCH PROFILE



CONSTRUCTION NOTES:

- ① RE-ROUTED OVERHEAD POWER.
- ② POLE TO BE REMOVED BY PSE.
- ③ SEE UTILITY CONVERSION DETAILS ON DWG U02

- C — PROPOSED COMCAST
- V — PROPOSED FRONTIER
- PSE — PROPOSED PUGET SOUND ENERGY
- ⊙ ROADWAY LUMINAIRE
- ⊙ PEDESTRIAN LUMINAIRE
- FRONTIER VAULT 5'x3'
- ⊞ COMCAST UTILITY VAULT #3642-LA
- ▲ PSE MINIPAD TRANSFORMER WITH COMBINATION JUNCTION BOX
- JUNCTION BOX
- ◆ POWER POLE

GENERAL NOTES:

1. STATIONS AND OFFSETS PROVIDED FOR VAULTS, TRANSFORMERS, AND HANDHOLES ARE REFERENCE TO THE CENTER OF APPURTENANCE LOCATION. ILLUMINATION JUNCTION BOXES AND LUMINAIRES ARE SHOWN FOR REFERENCE ONLY. REFER TO SHEETS IL1-IL3.
2. STATIONS AND OFFSETS PROVIDED FOR VAULTS, TRANSFORMATIONS, AND HANDHOLES ALL REFERENCE TO THE CENTER OF THE APPURTENANCE LOCATION.

Mar 08, 2016 - 4:04pm Mickey C. X:\Kenmore_City_of_Kenmore_City_of_Proj\2017\170 - Professional Services Contract 12-C1082-027 - Kenmore NE 181st St South Side Sidewalk\CAD\2017\170 UT.dwg Layout Name: UT1

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 49442 REGISTERED PROFESSIONAL ENGINEER

DISTRICT OF WASHINGTON
 49442 REGISTERED PROFESSIONAL ENGINEER

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| Drawn By | Date |
| MC | 03/08/16 |
| Designed By | |
| CP | 03/08/16 |
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| DD | 03/08/16 |
| Approved By | |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
UTILITY CONVERSION PLAN

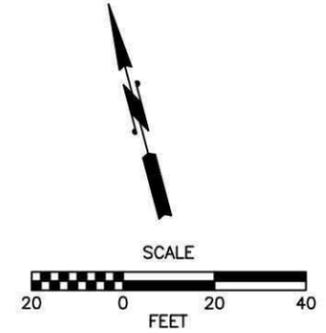
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| Drawing No. | UT1 |
| Sheet No. | 17 of 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

MATCHLINE STA 105+75 SEE SHEET UT1

CONSTRUCTION NOTES:

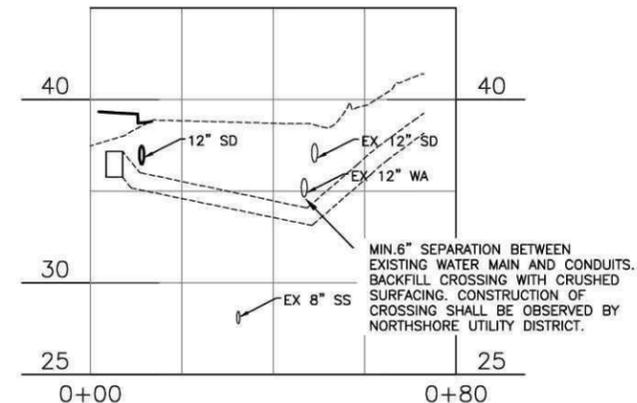
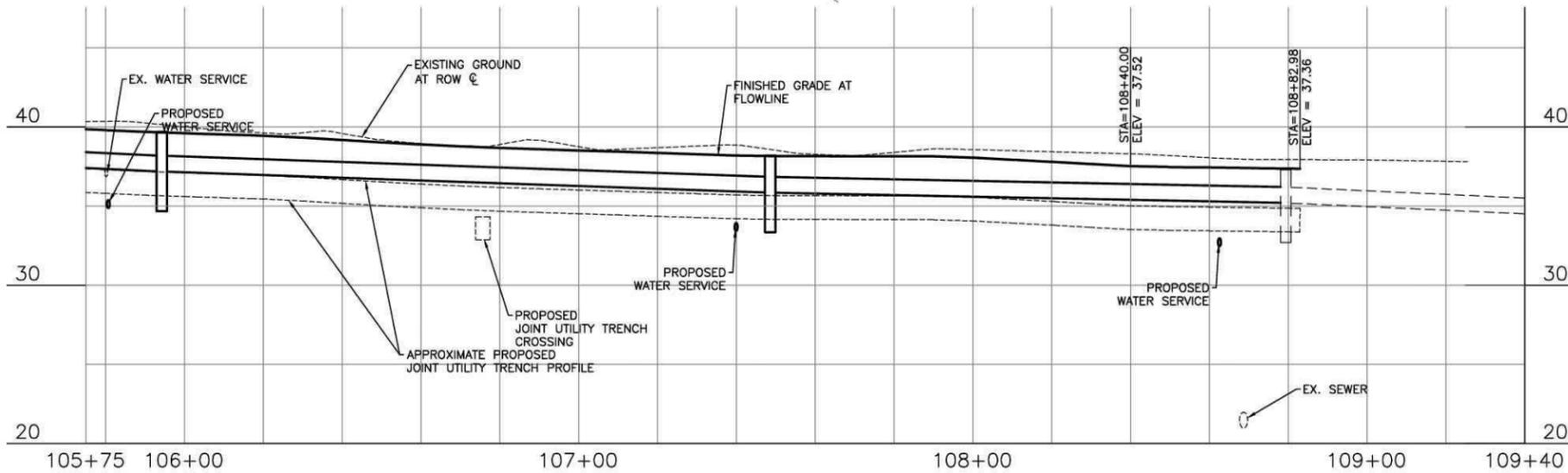
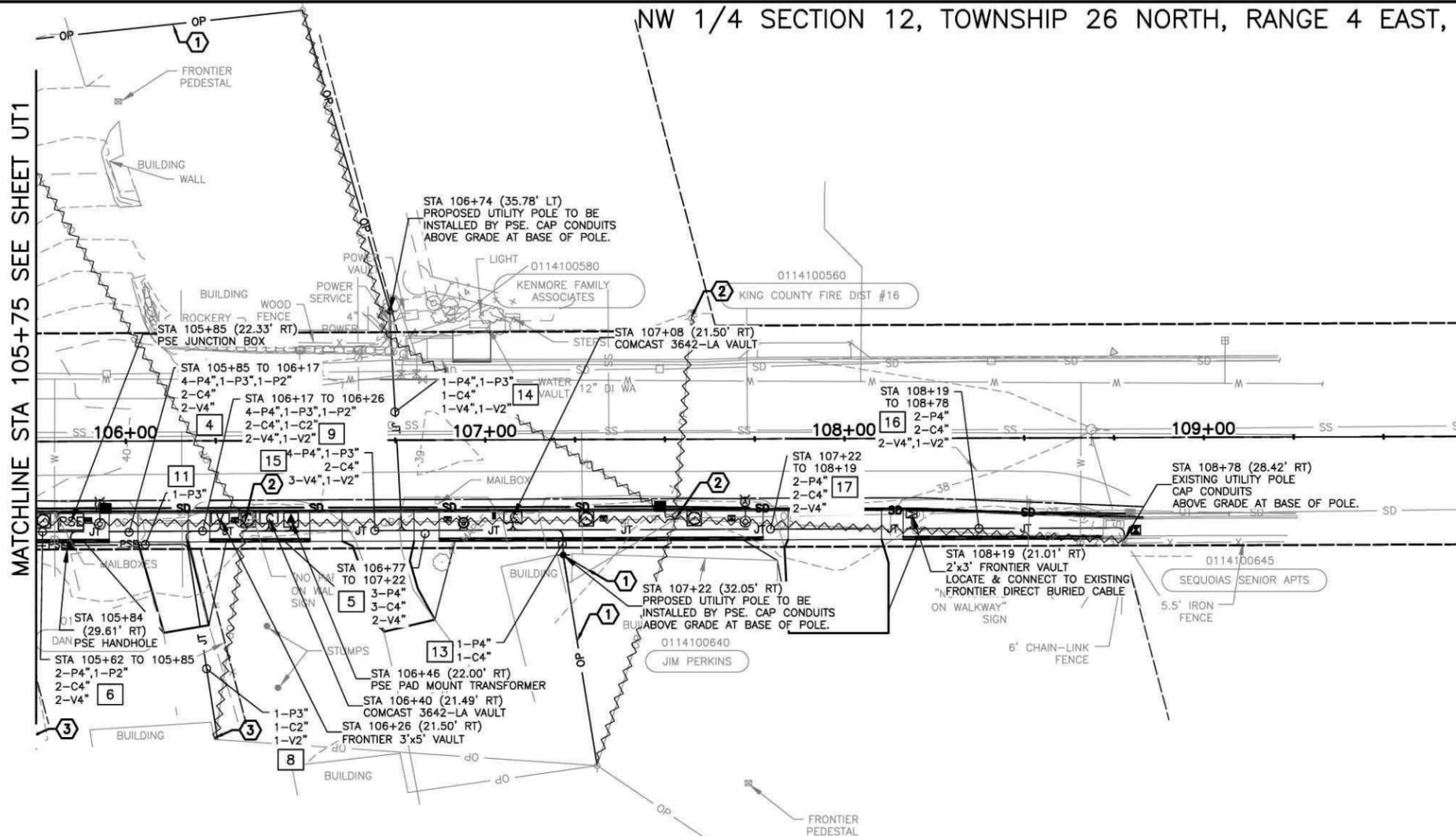
- ① RE-ROUTED OVERHEAD POWER.
- ② POLE TO BE REMOVED BY PSE.
- ③ SEE UTILITY CONVERSION DETAILS ON DWG UD2



- C — PROPOSED COMCAST
- V — PROPOSED FRONTIER
- PSE — PROPOSED PUGET SOUND ENERGY
- ⊙-⊙ ROADWAY LUMINAIRE
- ⊙ PEDESTRIAN LUMINAIRE
- FRONTIER VAULT 5'x3'
- COMCAST UTILITY VAULT #3642-LA
- ▲ PSE MINIPAD TRANSFORMER WITH COMBINATION JUNCTION BOX
- JUNCTION BOX
- POWER POLE

GENERAL NOTES:

- STATIONS AND OFFSET PROVIDED FOR VAULTS, TRANSFORMERS, AND HANDHOLES ARE REFERENCE TO THE CENTER OF APPURTENANCE LOCATION. ILLUMINATION JUNCTION BOXES AND LUMINAIRES ARE SHOWN FOR REFERENCE ONLY. REFER TO SHEETS IL1-IL3.
- STATIONS AND OFFSETS PROVIDED FOR VAULTS, TRANSFORMATIONS, AND HANDHOLES ALL REFERENCE TO THE CENTER OF THE APPURTENANCE LOCATION.



STA 106+75 TRENCH PROFILE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Mar 08, 2016 - 4:04pm MickeyC_X:\Kenmore_City of Projects\2017\170 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CAD\2017\170 UT.dwg Layout Name: UT2

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| Designed By | CP | Checked By | DD |
| Approved By | | Date | 03/08/16 |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
UTILITY CONVERSION PLAN

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| Drawing No. | UT2 |
| Sheet No. | 18 of 31 |

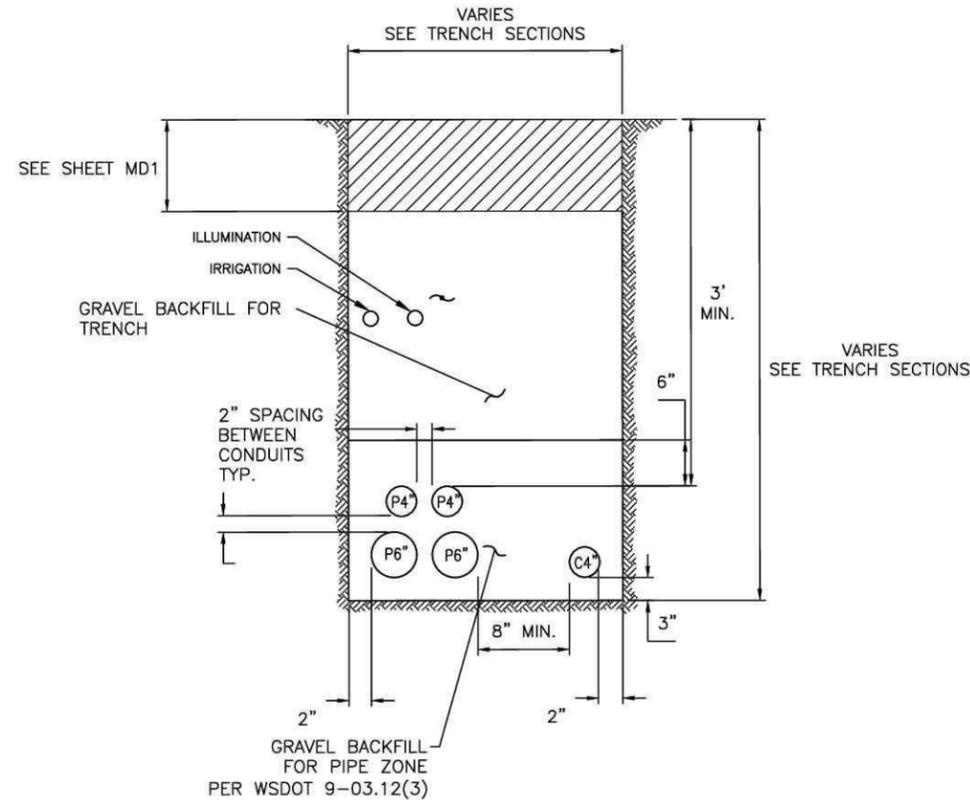
NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

LEGEND

-  CSTC
-  GRAVEL BORROW BACKFILL
-  COMPACTED SUBGRADE
-  HOT MIX ASPHALT OR CONCRETE SIDEWALK
-  LOCATE RIBBON, PLACED 12" ABOVE HIGHEST CONDUIT IN EACH RUN
-  PROPOSED PSE CONDUIT
-  PROPOSED COMCAST CONDUIT
-  PROPOSED FRONTIER CONDUIT
-  TRENCH NUMBER, SEE UT1-UT2 FOR LOCATIONS.

NOTES:

1. CONTRACTOR TO INSTALL THE NUMBER CONDUITS AS SHOWN ON THE ILLUMINATION PLANS AND SHEET UD3.
2. CONDUITS INDICATE OWNER AND SIZE.
3. TRENCH WIDTH AND DEPTH ARE MINIMUMS. CONTRACTOR SHALL ADJUST TO MAINTAIN 12" BETWEEN CONDUITS AND EXISTING UTILITIES AND ENSURE PROPER COMPACTION OF BACKFILL.
4. SEE SHEET TS1 FOR RELATIONSHIP BETWEEN UTILITY TRENCH LOCATION, SIDEWALK, CURB, TREE WELLS AND WALLS.

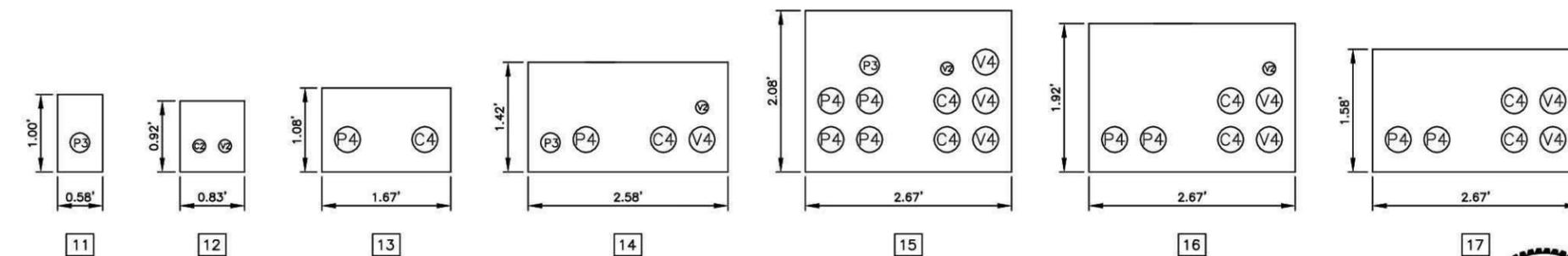
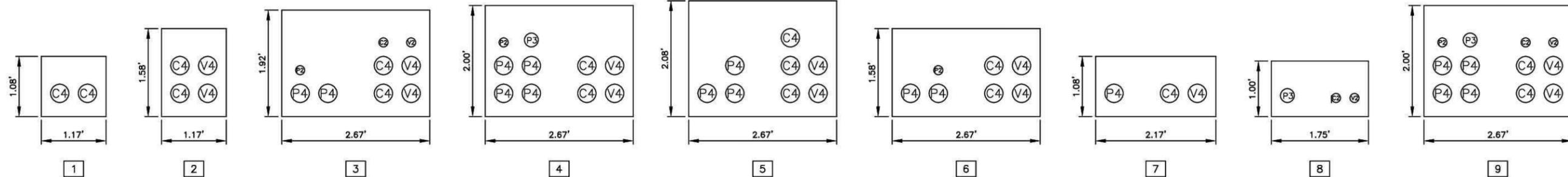


JOINT UTILITY TRENCH TYPICAL SECTION

N.T.S.

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR FRANCHISE UTILITY AGREEMENTS AND FRANCHISE UTILITY PLANS.
2. SHEETS UT1-UT2: JOINT UTILITY TRENCH SHOWN SCHEMATICALLY. PLACE ALL VAULTS, PEDESTALS, HANDHOLES, AND BOXES WITHIN THE RIGHT-OF-WAY AND OUTSIDE OF DRIVEWAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY COORDINATION, LAYOUT, SURVEYING, TRENCHING, EXCAVATION, BEDDING, BACKFILL, AND RESTORATION FOR THE FRANCHISE UTILITIES TO SUCCESSFULLY COMPLETE THE CONVERSION.
4. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, ELEVATIONS, TYPE AND SIZE OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF NEW UTILITY CONDUITS AND SHALL ADJUST NEW UTILITY CONDUITS AS REQUIRED. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS NOT SHOWN ON THE PLANS.
5. THE JOINT UTILITY TRENCH LAYOUT, SWEEPS, VAULTS AND OTHER FEATURES SHOWN ARE APPROXIMATE. ADJUST AS NECESSARY TO MEET FRANCHISE UTILITY REQUIREMENTS AND TO PROVIDE A COMPLETE, FUNCTIONING SYSTEM. FRANCHISE UTILITIES WILL PROVIDE ALL CONDUIT AND VAULTS. CONTRACTOR WILL INSTALL ALL CONDUIT AND VAULTS PER THE REQUIREMENTS AND SPECIFICATIONS OF THE FRANCHISE UTILITY.
6. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES, UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
7. ALL CONDUITS AND VAULTS/HANDHOLES/PEDESTALS TO BE INSPECTED BY UTILITY COMPANY INSPECTOR.
8. ALL CONDUITS ENTERING AND EXITING VAULTS MUST HAVE A MINIMUM 2-FOOT STRAIGHT STRETCH OF CONDUIT PRIOR TO THE INSTALLATION OF ANY BENDS, UNLESS NOTED OTHERWISE OR APPROVED BY THE UTILITY COMPANY'S INSPECTOR.
9. CAP AND MARK ENDS OF ALL CONDUITS WITH 2" DIAMETER PVC MARKER. MARKERS SHALL EXTEND FROM INVERT OF CONDUITS TO 18" ABOVE FINISHED GRADE AND SHALL IDENTIFY UTILITY MARKED.
10. ALL UTILITY POLES TO BE INSTALLED BY OTHERS.
11. CONTRACTOR SHALL TERMINATE ALL CONDUIT IN VAULTS, PEDESTALS, HANDHOLES OR 2- FEET ABOVE GRADE.
12. WORK SHALL BE SEQUENCED TO ALLOW CONTINUED OPERATION OF ALL EXISTING UNDERGROUND & OVERHEAD UTILITIES UNTIL THE WORK IS COMPLETE.
13. EXISTING JUNCTION BOXES, VAULTS, OR CABINETS FOR PUBLIC AND PRIVATE UTILITIES SHALL BE PROTECTED IN PLACE UNTIL SUCH TIME THE CONTRACTOR COORDINATES THEIR REMOVAL WITH THE APPROPRIATE OWNER.
14. COORDINATE WITH PRIVATE UTILITIES PRIOR TO REMOVAL OR DECOMMISSIONING OF ANY ASSOCIATED EQUIPMENT.
15. SEE ILLUMINATION AND IRRIGATION PLANS FOR MORE DETAILS.



Mar 08, 2016 - 4:04pm Mickey C. X:Kenmore, City of Kenmore, 181st St South Side SidewalkCAD20120170 UD.dwg Layout Name: UD1

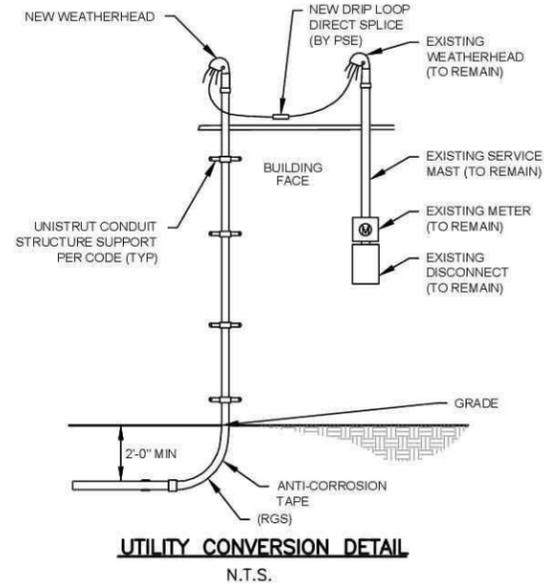
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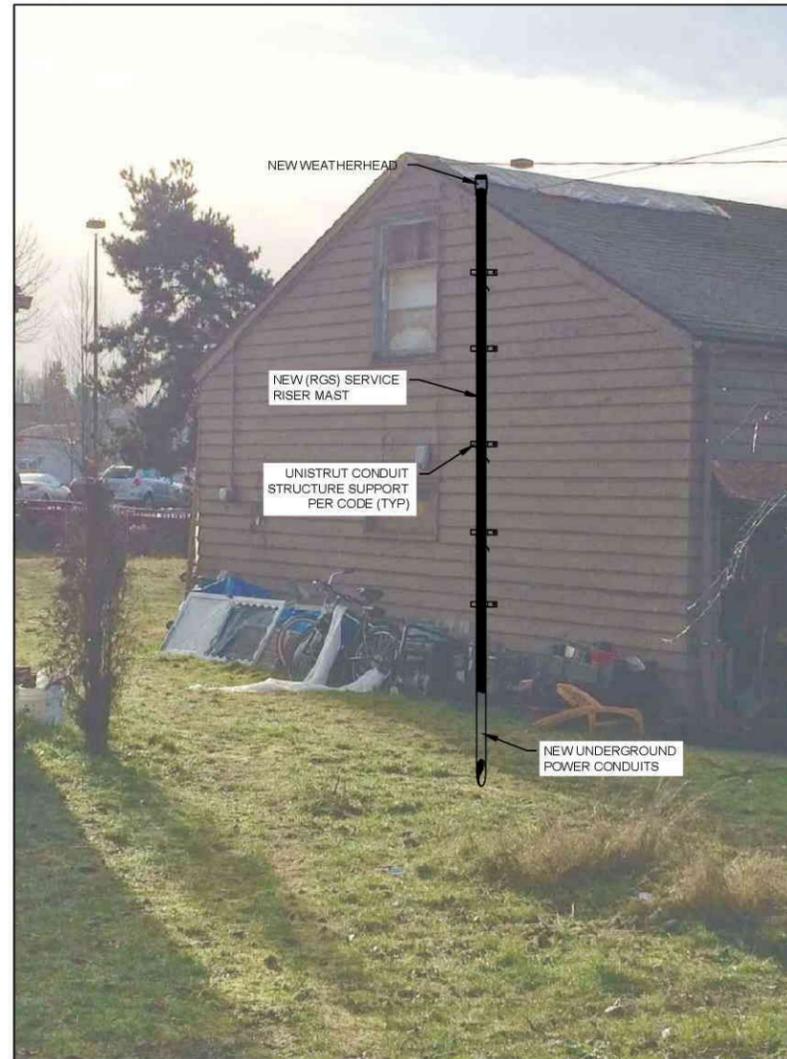
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CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
 UTILITY CONVERSION DETAILS

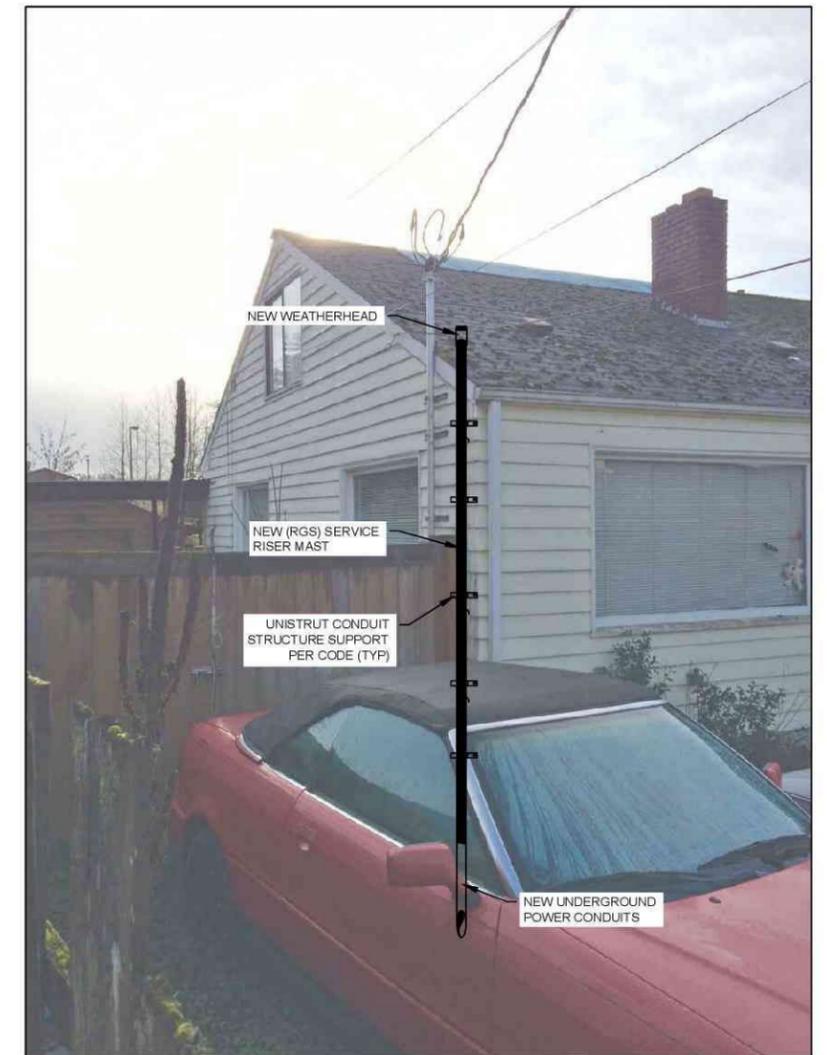
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| Drawing No. | UD1 |
| Sheet No. | 19 of 31 |



1. NEW SERVICE MAST TO BE APPROX SAME HEIGHT AS EXISTING MAST AND BE NO GREATER THAT 3'-0" SEPARATION DISTANCE.
2. ALL ABOVE GROUND CONDUITS SHALL BE RGS. CONTINUE RGS BELOW GRADE THROUGH FIRST ELBOW AND PROTECT WITH ANTI-CORROSION TAPE SUCH AS SCOTCH 51. CONTINUE BELOW GRADE CONDUIT WITH SCHEDULE 40 PVC TO HANDHOLE OR VAULT.



7009 NE 181ST UTILITY CONVERSION
N.T.S.



7015 NE 181ST UTILITY CONVERSION
N.T.S.

Mar 08, 2016 - 4:04pm MickeyC X:\Kenmore_City of Projects\2017\201701 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\2017\201701 UD.dwg Layout Name: UD2

| No. | Date | Revision | By | Appr. |
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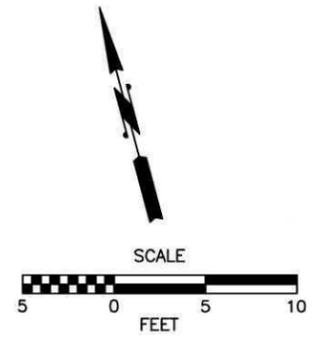
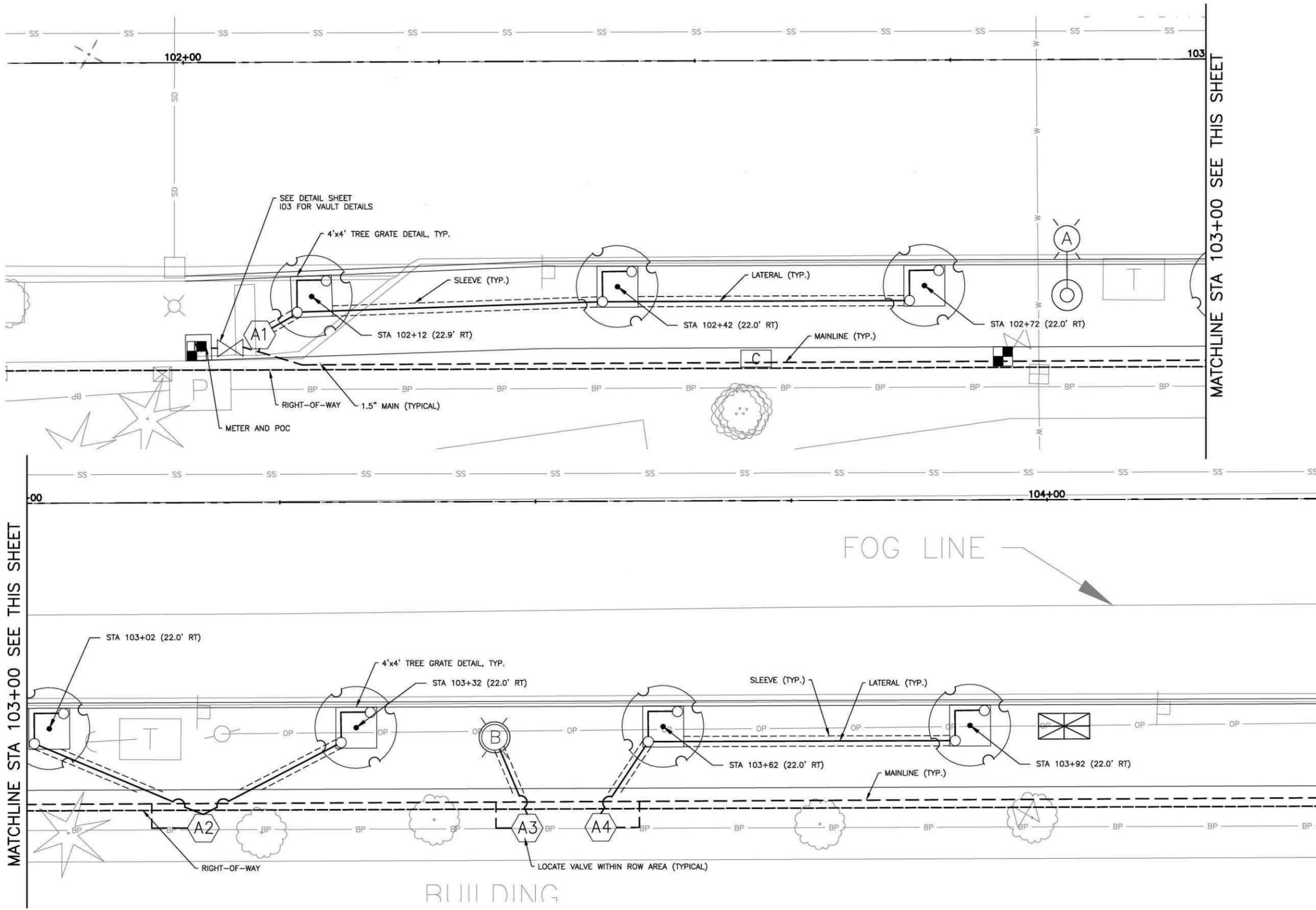
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| Designed By | CP | | |
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Project Number

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
UTILITY CONVERSION DETAILS

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| Drawing No. | UD2 |
| Sheet No. | 20 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



- GENERAL NOTES:**
1. SEE SHEET ID1-ID2 FOR LEGEND, NOTES, AND DETAILS.
 2. REFER TO SHEET IR1 FOR LOCATION REFERENCE.
 3. THIS LAYOUT IS APPROXIMATE. ADJUST AS NECESSARY TO MEET REQUIREMENTS AND TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
 4. REFER TO NUD WATER DETAILS 13 & 14 FOR SPRINKLER OR BACKFLOW PREVENTIONS & PREMISE ISOLATION BACKFLOW ASSEMBLY GUIDELINES.

Mar 10, 2016 - 3:39pm MickeyC: X:\Kenmore_City of Projects\2017\170 - Professional Services Contract 12-C1082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\170 IR.dwg Layout Name: IR2

MATCHLINE STA 103+00 SEE THIS SHEET

MATCHLINE STA 103+00 SEE THIS SHEET

MATCHLINE STA 104+30 SEE SHEET IR3

| No. | Date | Revision | By | Appr. |
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| CP | 03/08/16 |
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| DD | 03/08/16 |
| Approved By | |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
IRRIGATION & PLANTING PLAN

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| Drawing No. | IR2 |
| Sheet No. | 22 |
| of Total | 31 |



NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

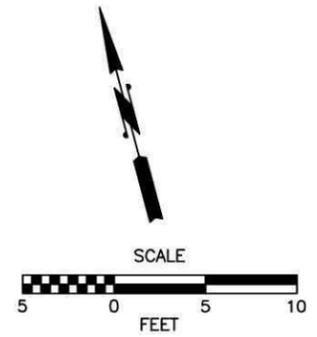
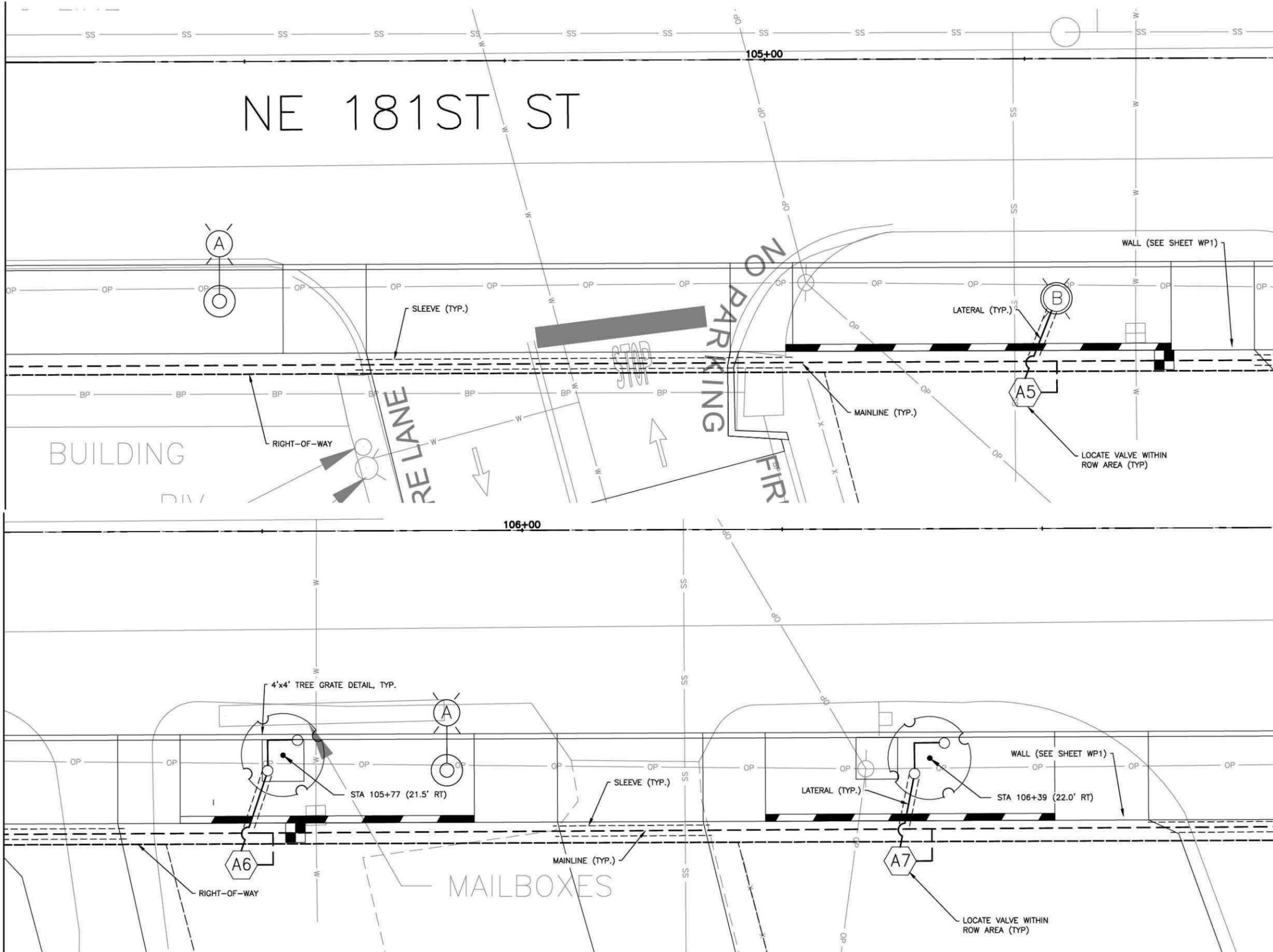
MATCHLINE STA 104+30 SEE SHEET IR2

MATCHLINE STA 105+50 SEE THIS SHEET

MATCHLINE STA 105+50 SEE THIS SHEET

MATCHLINE STA 106+75 SEE SHEET IR4

NE 181ST ST



GENERAL NOTES:

1. SEE SHEET ID1-ID2 FOR LEGEND, NOTES, AND DETAILS.
2. REFER TO SHEET IR1 FOR LOCATION REFERENCE.
3. THIS LAYOUT IS APPROXIMATE. ADJUST AS NECESSARY TO MEET REQUIREMENTS AND TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
4. REFER TO NUD WATER DETAILS 13 & 14 FOR SPRINKLER OR BACKFLOW PREVENTIONS & PREMISE ISOLATION BACKFLOW ASSEMBLY GUIDELINES.

Mar 10, 2016 - 3:39pm Mickey C. X:\Kenmore_City of Projects\2017\1701 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\170 IR.dwg Layout Name: IR3

| No. | Date | Revision | By | Appr. |
|-----|------|----------|----|-------|
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| | | | |
|-------------|----|------|----------|
| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Date | 03/08/16 |
| Checked By | DD | Date | 03/08/16 |
| Approved By | | | |

CITY OF KENMORE

NE 181ST ST SOUTH SIDE SIDEWALK

IRRIGATION & PLANTING PLAN

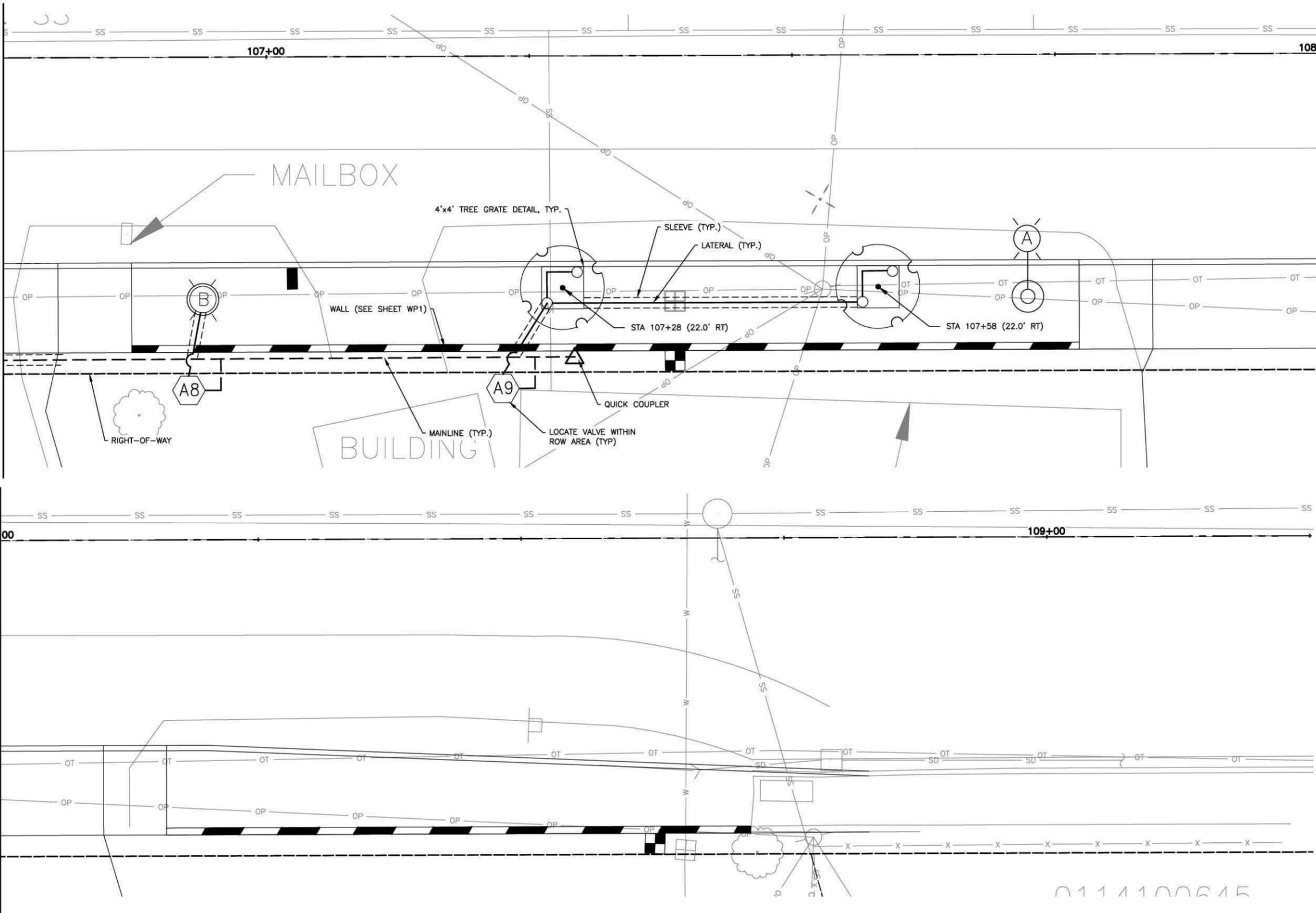
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| Drawing No. | IR3 |
| Sheet No. | 23 of 31 |



NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

MATCHLINE STA 106+75 SEE SHEET IR3

MATCHLINE STA 108+00 SEE THIS SHEET



- GENERAL NOTES:**
1. SEE SHEET ID1-ID2 FOR LEGEND, NOTES, AND DETAILS.
 2. REFER TO SHEET IR1 FOR LOCATION REFERENCE.
 3. THIS LAYOUT IS APPROXIMATE. ADJUST AS NECESSARY TO MEET REQUIREMENTS AND TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
 4. REFER TO NUD WATER DETAILS 13 & 14 FOR SPRINKLER OR BACKFLOW PREVENTIONS & PREMISE ISOLATION BACKFLOW ASSEMBLY GUIDELINES.

Mar 10, 2016 - 3:39pm MickeyC_X:\Kenmore_City_of\Projects\2017\170 - Professional Services\Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\20170 IR.dwg Layout Name: IR4

MATCHLINE STA 108+00 SEE THIS SHEET

0114100615

| No. | Date | Revision | By | Appr. |
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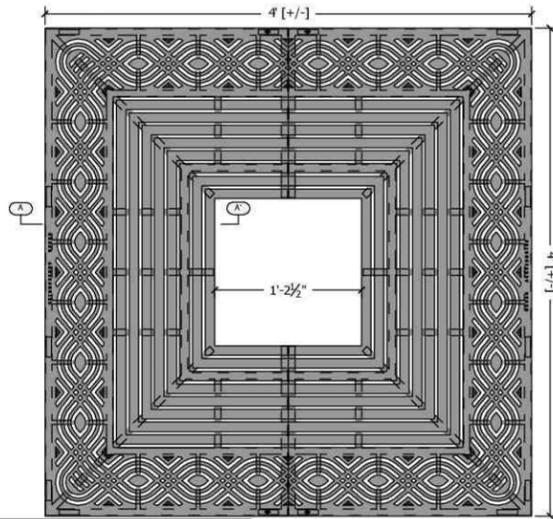
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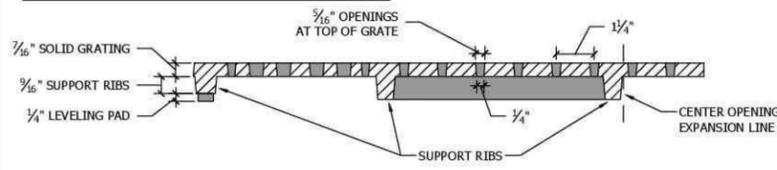
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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Date | 03/08/16 |
| Checked By | DD | Date | 03/08/16 |
| Approved By | | | |

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| CITY OF KENMORE | | | Drawing No. IR4 |
| NE 181ST ST SOUTH SIDE SIDEWALK | | | |
| IRRIGATION & PLANTING PLAN | | | |

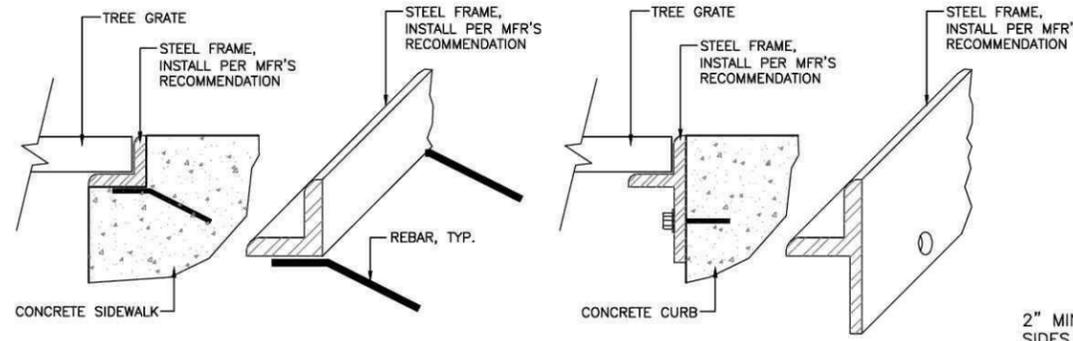
NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



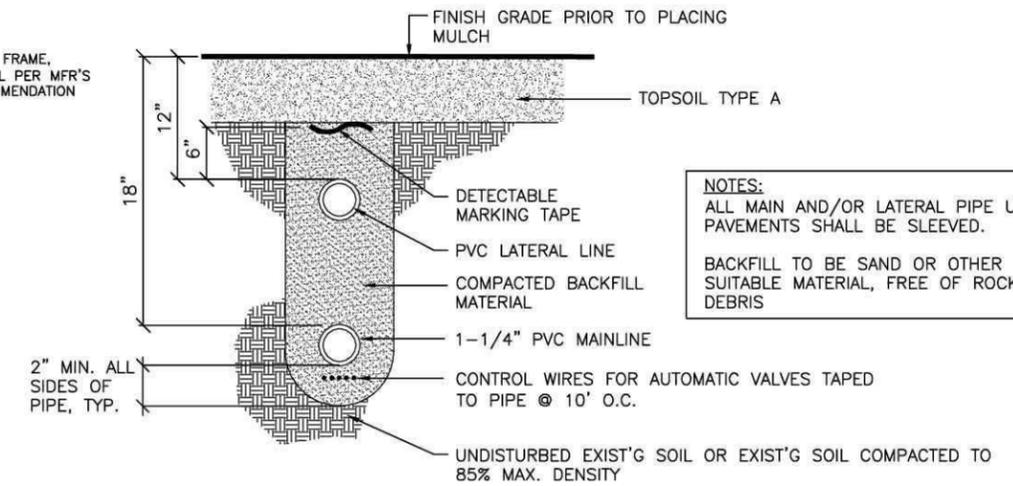
NOTES:
TREE GRATE SHALL BE THE URBAN ACCESSORIES 4' SQ. CHINOOK GRATE.



TREE GRATE PLAN VIEW
N.T.S.

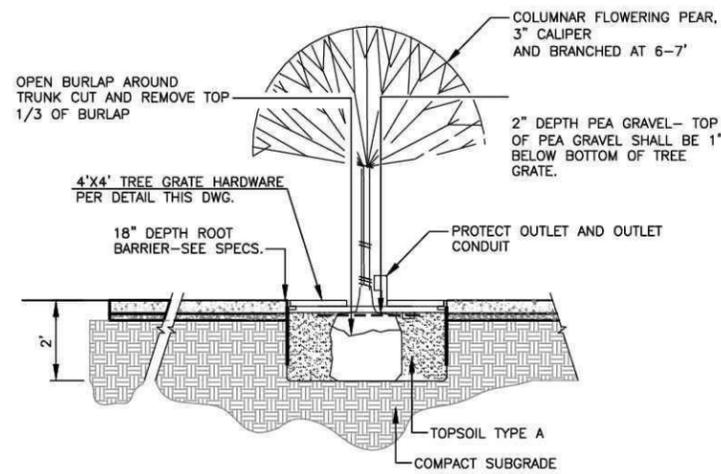


TREE GRATE HARDWARE DETAIL
N.T.S.

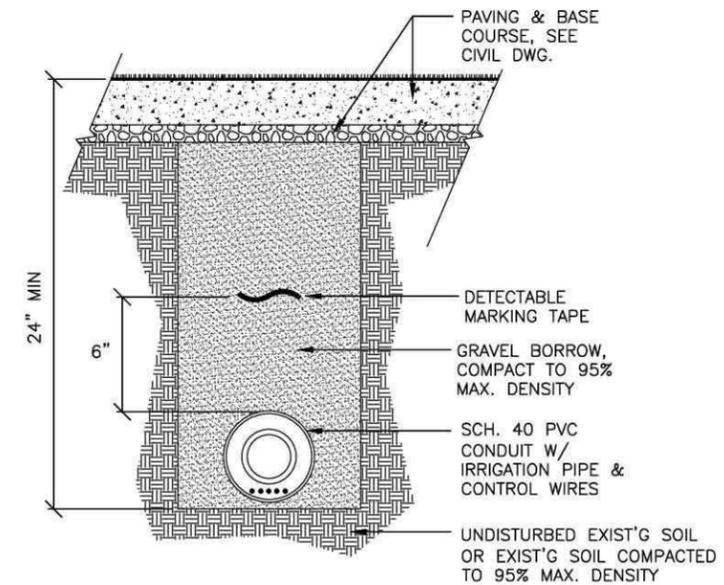


NOTES:
ALL MAIN AND/OR LATERAL PIPE UNDER PAVEMENTS SHALL BE SLEEVED.
BACKFILL TO BE SAND OR OTHER SUITABLE MATERIAL, FREE OF ROCK OR DEBRIS

MAIN AND/OR LATERAL PIPE TRENCH
N.T.S.



STREET TREE AND TREE GRATE DETAIL
N.T.S.



CONDUIT UNDER PAVEMENT
N.T.S.

Mar 10, 2016 - 4:06pm Mickey C. X:\Kenmore, City of\Projects\2017\170 - Professional Services\Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\2017\170 ID.dwg Layout Name: ID1

| No. | Date | Revision | By | Appr. |
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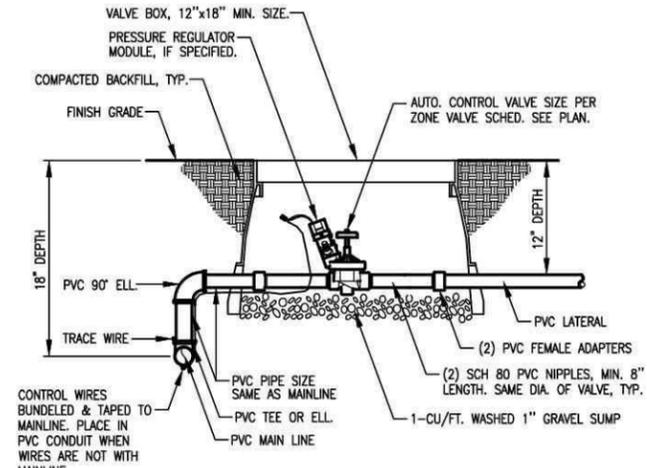
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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Checked By | DD |
| Approved By | JW | Date | 03/08/16 |

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
IRRIGATION & PLANTING DETAILS

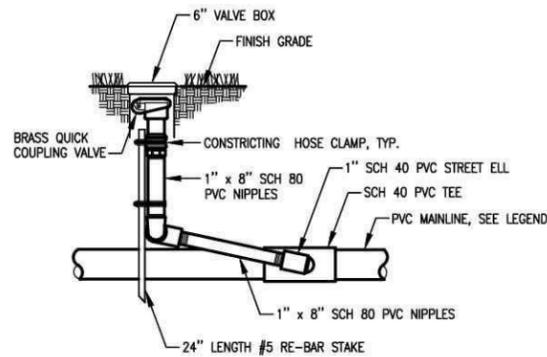
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| Drawing No. | ID1 |
| Sheet No. | 25 |
| of Total | 31 |



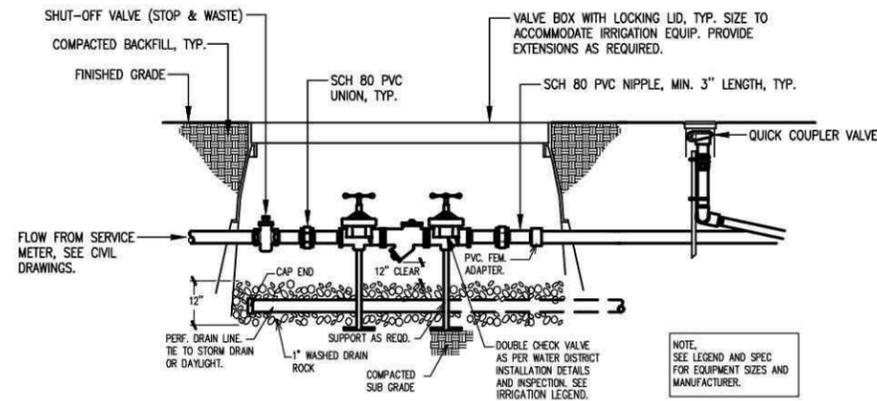
IRRIGATION NOTES, LEGENDS AND DETAILS



AUTOMATIC CONTROL VALVE DETAIL IN PLANTER
N.T.S.



QUICK COUPLER VALVE (QCV) DETAIL
N.T.S.



DVCA CONNECTION ASSEMBLY
N.T.S.

IRRIGATION GENERAL NOTES

- GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR TO COORDINATE:
 - PROTECTION OF SITE, INCLUDING: LOCATING ALL EXISTING AND NEW UNDERGROUND UTILITY LINES PRIOR TO ANY CONSTRUCTION, SAVING AND PROTECTING EXISTING TREES DESIGNATED TO REMAIN, REPAIRING ANY DAMAGE DONE TO CURBING, SIDEWALKS, FENCES, AND ANY OTHER DAMAGE CAUSED AS A RESULT OF THIS CONTRACT.
 - INSTALLATION OF 110V ELECTRICAL SERVICE FROM ELECTRICAL SOURCE TO AUTOMATIC CONTROLLER, INCLUDING WIRE HOOK-UP INTO MOUNTED CONTROLLER. IRRIGATION CONTRACTOR WILL MOUNT CONTROLLER PER DESIGN AND COORDINATE WITH GENERAL CONTRACTOR.
 - INSTALLATION OF IRRIGATION/SERVICE METER AND STUB TO IRRIGATION POINTS OF CONNECTION, PER UTILITY PLAN(S) AND PURSUANT TO WATER DISTRICT REQUIREMENTS.
 - PROVISION OF STANDARD THREADED STUB-OUT WITH THREADED CAP ON DISCHARGE SIDE OF METERS. STUB-OUT TO BE INSTALLED APPROXIMATELY 18 INCHES BELOW FINISHED GRADE.
 - VERIFICATION OF STATIC WATER PRESSURE AT POINT-OF-CONNECTION (P.O.C.) CONTRACTOR SHALL NOTIFY ENGINEER OF STATIC PRESSURE AND ADVISE IF SYSTEM PRV IS NECESSARY
 - INSTALLATION OF SLEEVING TO BE COORDINATED WITH GENERAL CONTRACTOR.
- CONTROLLER IS TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR WHILE THE POWER WIRING FOR THE CONTROLLER WILL BE PROVIDED BY THE GENERAL CONTRACTOR.
- SYSTEM HAS BEEN DESIGNED FOR MAX. 20 GPM AT 35 PSI AT THE FURTHEST NOZZLE. VERIFY ADEQUATE STATIC PRESSURE SETTING AT SYSTEM PRV FOR OPTIMAL SYSTEM PERFORMANCE.
- PRIOR TO INITIATION OF WORK CONTRACTOR SHALL VERIFY ALL WORK TO BE DONE PER LOCAL CODE AND PER MANUFACTURER'S SPECIFICATIONS.
- SET VALVE BOXES FLUSH WITH FINISHED GRADES IN PLANTING AREAS.
- PIPES FOR LATERAL LINES SHALL BE SIZED BY CONTRACTOR IN DECREASING DOWNSTREAM ORDER (PER RAIN BIRD DESIGN STANDARDS).
- LINE POSITIONING IS DIAGRAMMATIC ON PLAN. ADJUST IN FIELD AS NECESSARY FOR ADEQUATE COVERAGE. COORDINATE WITH LANDSCAPE PLANS. VALVES SHALL BE POSITIONED ADJACENT TO CURBS, IN SHRUB BEDS WHERE POSSIBLE. FOR SCHEMATIC CLARITY, MAIN AND LATERAL LINE SYMBOLS ON PLANS MAY BE INDICATED AT PAVEMENT, AND ADJACENT AND PARALLEL TO PLANTING AREAS, AND OUTSIDE OF LOT LINES. LINES SHOWN FOR CLARITY IN THESE AREAS ARE TO BE PLACED IN ADJACENT PLANTING AREAS, WITHIN THE PROJECT SITE.
- PROVIDE OWNER WITH TWO (2) SETS OF AS-BUILT DRAWINGS AND OPERATOR'S MANUAL UPON COMPLETION. INSTRUCT OWNER AS TO PROPER WINTERIZATION OF IRRIGATION SYSTEM (BLOW OUT).
- FAMILIARIZE FACILITY OPERATOR WITH IRRIGATION SYSTEM FUNCTION, CONTROLLER PROGRAMMING, SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS.
- ALL CONTROL WIRE SPLICES SHALL BE MADE AT VALVE BOXES.
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. TESTED AND APPROVED, AND SHALL BEAR THE U.L. LABEL.
- PROVIDE MANUAL SHUT-OFF VALVE TO LATERAL LINES IN CONTROL VALVE BOX.
- CROSS CONNECTION PROTECTION INSPECTION REQUIRED. BACKFLOW DEVICES SHALL BE TESTED UPON INSTALLATION. A PERSON HOLDING A CURRENT CERTIFICATE AS A BACKFLOW TESTER SHALL PERFORM THE TESTING. THE TEST REPORT SHALL BE SUBMITTED TO THE LOCAL WATER DISTRICT AND OWNER. CONTRACTOR SHALL INCLUDE TESTING IN THE SCOPE OF WORK. OWNER IS RESPONSIBLE FOR ANNUAL INSPECTIONS AFTER THE INITIAL INSPECTION.
- CONTRACTOR SHALL PROVIDE SYSTEM WINTERIZATION/SPRING SERVICE WHEN INSTALLATION HAS BEEN COMPLETED WITHIN 90 DAYS OF NOVEMBER 1 FOR WINTERIZATION, OR MAY 15 FOR SPRING SERVICE. SERVICE TO BE PERFORMED AS NEAR AS PRACTICAL TO THE ABOVE DATES, OR AS FREEZE/PRECIPITATION CONDITIONS DETERMINE SERVICE NEED.
- PROVIDE AUTOMATIC RAIN SHUT-OFFS FOR EACH CONTROLLER.
- IRRIGATION CONTRACTOR TO PROVIDE A ONE YEAR WARRANTY AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP.
- SEE SPECIFICATIONS

IRRIGATION PARTS LEGEND

| SYMBOL | DESCRIPTION | MANUFACTURER/NOTES |
|--------------|--|---|
| M | IRRIGATION METER | 1" INSTALLED PER WATER APPLICATION PROCESS. (METER BY MECHANICAL ALL DOWNSTREAM COMPONENTS BY IRRIGATION CONTRACTOR). |
| C | CONTROLLER (LOCATION VERIFIED BY ENGINEER) | RAIN BIRD ESP SERIES CONTROLLER WITH EXPANSION MODULES AS NEEDED GENERAL TO PROVIDE POWER SOURCE IN CONDUIT PROVIDE VANDAL RESISTANT PEDESTAL ENCLOSURE |
| ⊗ | P.O.C. | P.O.C TO INCLUDE: DVCA AND QCV |
| 12 | ELECTRONIC CONTROL VALVE WITH DRIP KIT | RAIN BIRD XCZ-075(COM) KIT FOR EACH DRIP ZONE |
| ▲ | QUICK COUPLER | RAINBIRD 33DRC W/ KEY AT POC AND END OF MAINS |
| ○ | DRIP BUBBLER | RAIN BIRD XERIGATION BUBBLERS (2 PER TREE WELL ON SPIKES) SBX-180-1032 (0.21 GPM, 13 GPH) |
| SEE DETAIL ↓ | BASKET EMITTERS | RAIN BIRD XB-05PC (0.5 GPM, 15 GPH) |
| --- | MAINLINE | 1-1/4" SIZE - SCH. 40 PVC BELL PIPE |
| --- | LATERAL LINE | CLASS 200 PVC BELL PIPE, 3/4" FOR ENTIRE DRIP ZONE |
| --- | SLEEVE | SCH 40 PVC, TWICE SIZE OF INSERT PIPE |

ZONE SCHEDULE

| ZONE | SIZE | GPM | TYPE |
|------|------|------|----------------------------|
| A1 | 1" | 1.26 | TREE WELL DRIP ZONE |
| A2 | 1" | 0.84 | TREE WELL DRIP ZONE |
| A3 | 1" | 2.0 | STREET LIGHT DRIP EMITTERS |
| A4 | 1" | 1.26 | TREE WELL DRIP ZONE |
| A5 | 1" | 2.0 | STREET LIGHT DRIP EMITTERS |
| A6 | 1" | 0.42 | TREE WELL DRIP ZONE |
| A7 | 1" | 0.42 | TREE WELL DRIP ZONE |
| A8 | 1" | 2.0 | STREET LIGHT DRIP EMITTERS |
| A9 | 1" | 0.84 | TREE WELL DRIP ZONE |

PLANT SCHEDULE

| TREES SYMBOL | SCIENTIFIC NAME | COMMON NAME | SPACING | QTY. | SIZE (MIN.) | NOTES |
|--------------|--------------------------------|-------------------------|----------|------|-------------|---|
| (Symbol) | PYRUS CALLERYANA 'CHANTICLEER' | COLUMNAR FLOWERING PEAR | PER PLAN | 12 | 3" CAL. | SINGLE TRUNK, MATCHED, 6'-7' CLEAR CANOPY |



Mar-10-2016 - 4:06pm Mickey C. X:\Kenmore_City of Kenmore Services Contract 12-C1082\027 - Kenmore NE 181st St South Side Sidewalk\CAD\20120170 ID.dwg Layout Name: ID2

| No. | Date | Revision | By | Appr. |
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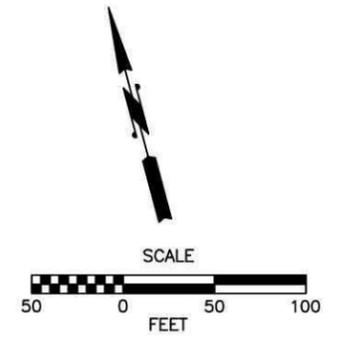


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| Drawn By MC | Date 03/08/16 |
| Designed By CP | 03/08/16 |
| Checked By DD | 03/08/16 |
| Approved By JW | |

CITY OF KENMORE
NE 181ST ST SOUTH SIDE SIDEWALK
IRRIGATION & PLANTING DETAILS

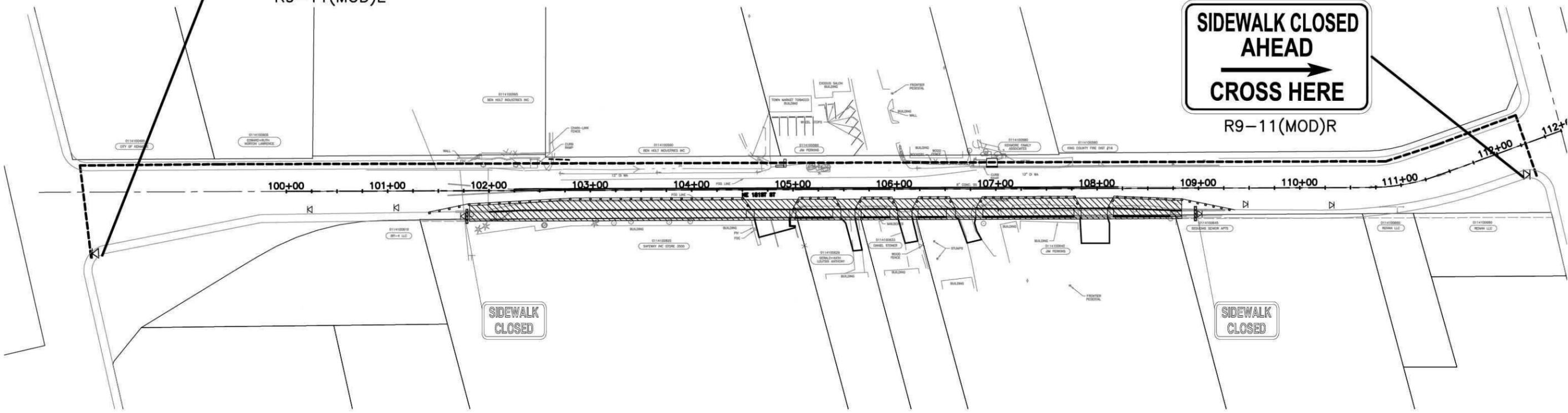
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| Drawing No. ID2 |
| Sheet No. 26 |
| of Total 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



SIDEWALK CLOSED AHEAD
CROSS HERE
 ←
 R9-11(MOD)L

SIDEWALK CLOSED AHEAD
CROSS HERE
 →
 R9-11(MOD)R



SIDEWALK CLOSED

SIDEWALK CLOSED

- LEGEND**
- ⊠ SIGN LOCATION
 - ▨ WORK AREA
 - - - PEDESTRIAN DETOUR
 - ▨▨▨ TYPE 2 BARRICADE

Mar 08, 2016 - 4:06pm Mickey C. X:\Kenmore_City of Projects\2017\1701 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CAD\2017\1701 TC.dwg Layout Name: TC1

| No. | Date | Revision | By | Appr. |
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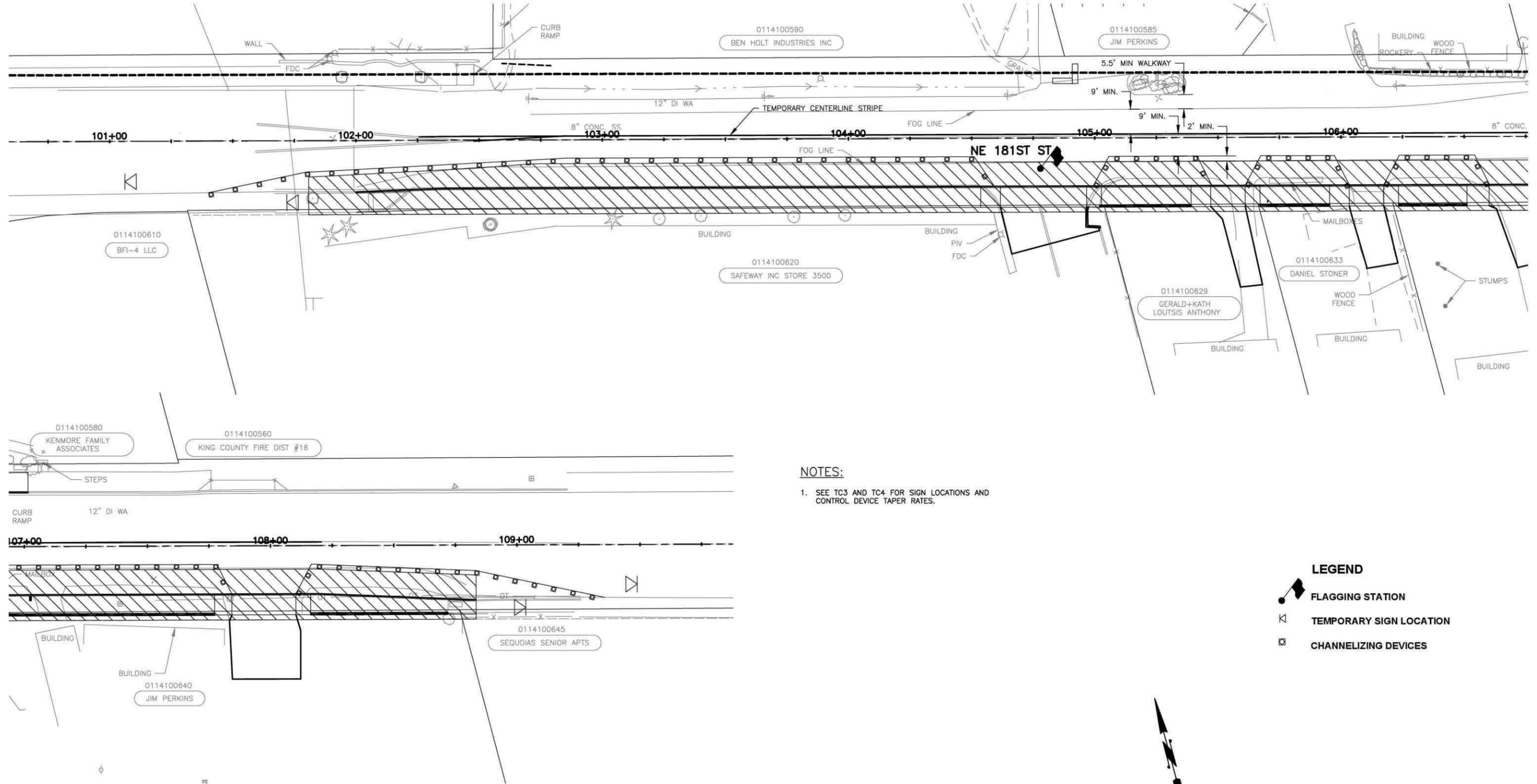
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| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Checked By | DD |
| Approved By | DD | Date | 03/08/16 |

CITY OF KENMORE

**NE 181ST ST SOUTH SIDE SIDEWALK
 TRAFFIC CONTROL &
 PEDESTRIAN DETOUR PLAN**

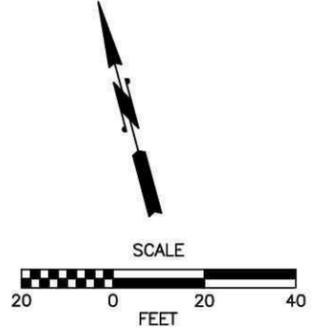
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| Drawing No. | TC1 |
| Sheet No. | 28 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.



NOTES:
 1. SEE TC3 AND TC4 FOR SIGN LOCATIONS AND CONTROL DEVICE TAPER RATES.

- LEGEND**
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES



Mar 08, 2016 - 4:12pm Mickey C. X:\Kenmore_City of Projects\2017\170 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CADD\20170 TC.dwg Layout Name: TC2

| No. | Date | Revision | By | Appr. |
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| MC | 03/08/16 |
| Designed By | |
| CP | 03/08/16 |
| Checked By | |
| DD | 03/08/16 |
| Approved By | |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
TRAFFIC CONTROL PLAN

| | |
|-------------|-----|
| Drawing No. | TC2 |
| Sheet No. | 29 |
| of Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

| SIGN SPACING = X (1) | | |
|--|----------------|------------|
| RURAL ROADS & URBAN ARTERIALS | 35 / 40 MPH | 350' □ |
| RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH | 200' □ (2) |
| URBAN STREETS | 25 MPH OR LESS | 100' □ (2) |

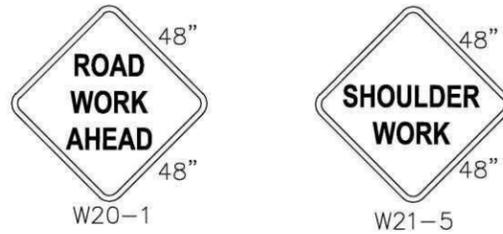
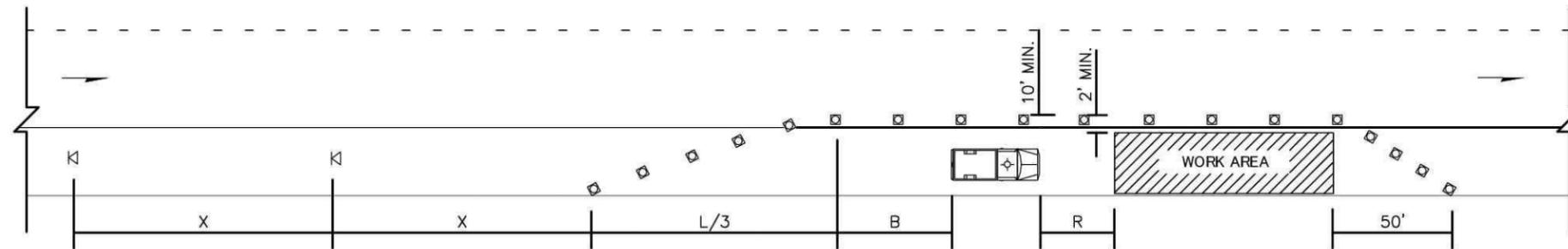
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

| MINIMUM SHOULDER TAPER LENGTH = L/3 (feet) | | | | | | | | | | |
|--|--------------------|----|----|----|----|----|----|----|----|----|
| SHOULDER WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8' | 40 | 40 | 60 | 90 | - | - | - | - | - | - |
| 10' | 40 | 60 | 90 | 90 | - | - | - | - | - | - |

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

| CHANNELIZATION DEVICE SPACING (feet) | | |
|--------------------------------------|-------|---------|
| MPH | TAPER | TANGENT |
| 35/40 | 30 | 60 |
| 25/30 | 20 | 40 |

| BUFFER DATA | | | | | | | | | | |
|--|-----|-----|-----|-----|----|----|----|----|----|--------------------------------|
| LONGITUDINAL BUFFER SPACE = B | | | | | | | | | | |
| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| LENGTH (feet) | 155 | 200 | 250 | 305 | | | | | | |
| BUFFER VEHICLE ROLL AHEAD DISTANCE = R | | | | | | | | | | |
| TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. | | | | | | | | | | 30 FEET MIN. TO 100 FEET MAX. |
| PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA. | | | | | | | | | | NO SPECIFIED DISTANCE REQUIRED |



LEGEND

- ⊠ TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

SHOULDER CLOSURE - LOW SPEED
(40 MPH OR LESS)

NOT TO SCALE

NOTES:

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

Mar 08, 2016 - 4:06pm - Mickey C. X:\Kenmore_City_of\Projects\2017\170 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\CAD\2017\170 TC.dwg - Layout Name: TC3

| No. | Date | Revision | By | Appr. |
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| Drawn By | Date |
| MC | 03/08/16 |
| Designed By | |
| CP | 03/08/16 |
| Checked By | |
| DD | 03/08/16 |
| Approved By | |

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| Project Number | |
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CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
TRAFFIC CONTROL PLAN

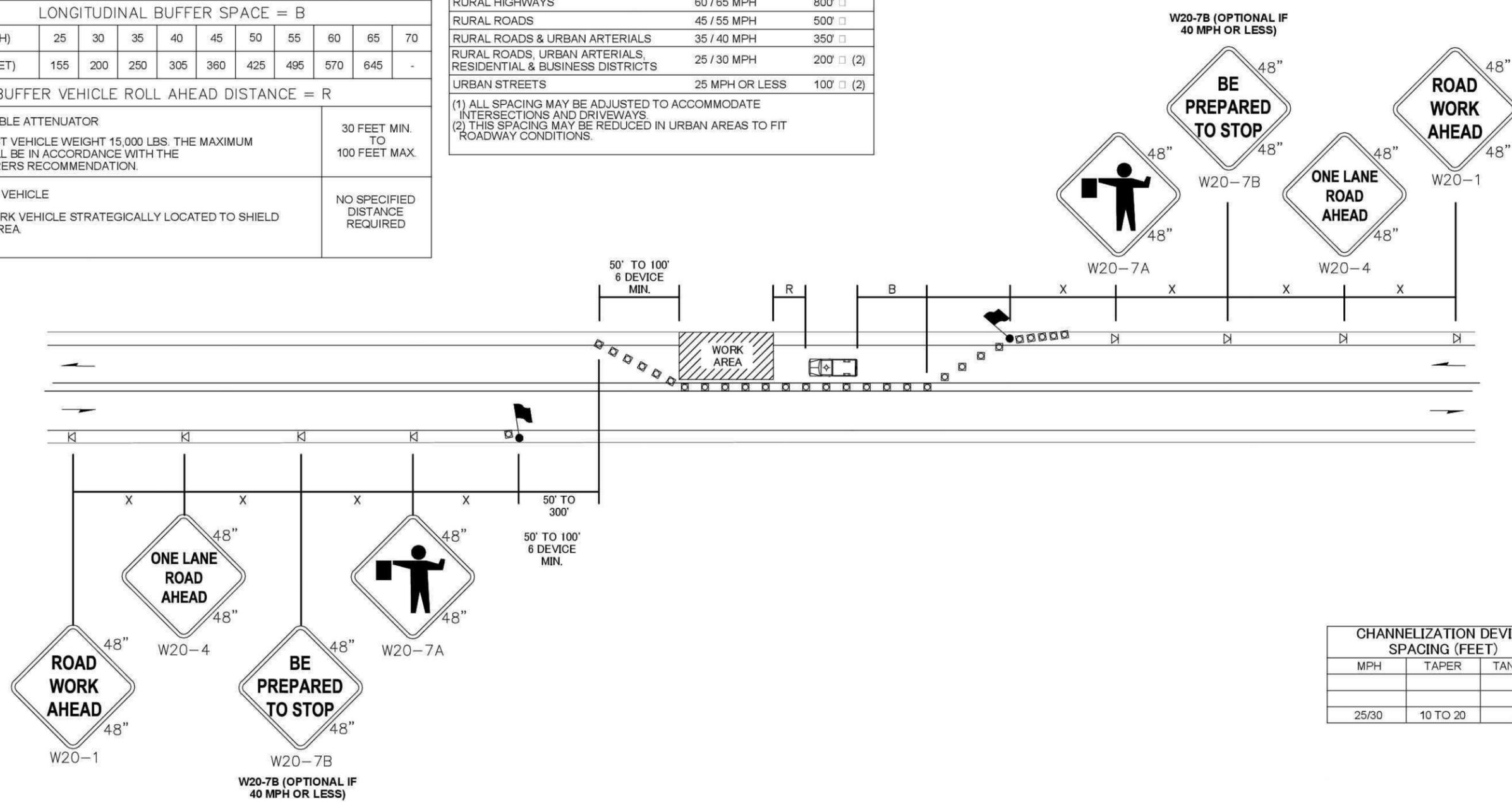
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| Sheet No. | 30 |
| Total | 31 |

NW 1/4 SECTION 12, TOWNSHIP 26 NORTH, RANGE 4 EAST, W.M.

| BUFFER DATA | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-----|----|
| LONGITUDINAL BUFFER SPACE = B | | | | | | | | | | |
| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| LENGTH (FEET) | 155 | 200 | 250 | 305 | 360 | 425 | 495 | 570 | 645 | - |
| BUFFER VEHICLE ROLL AHEAD DISTANCE = R | | | | | | | | | | |
| TRANSPORTABLE ATTENUATOR | | | | | | | | 30 FEET MIN. TO 100 FEET MAX. | | |
| MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. | | | | | | | | | | |
| PROTECTIVE VEHICLE | | | | | | | | NO SPECIFIED DISTANCE REQUIRED | | |
| MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA. | | | | | | | | | | |

| SIGN SPACING = X (1) | | |
|--|----------------|------------|
| RURAL HIGHWAYS | 60 / 65 MPH | 800' □ |
| RURAL ROADS | 45 / 55 MPH | 500' □ |
| RURAL ROADS & URBAN ARTERIALS | 35 / 40 MPH | 350' □ |
| RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH | 200' □ (2) |
| URBAN STREETS | 25 MPH OR LESS | 100' □ (2) |

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



| CHANNELIZATION DEVICE SPACING (FEET) | | |
|--------------------------------------|----------|---------|
| MPH | TAPER | TANGENT |
| 25/30 | 10 TO 20 | 40 |

- LEGEND**
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PROTECTIVE VEHICLE

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS TO BE USED FOR UTILITY CROSSINGS OR WHEN LANE CLOSURE IS NECESSARY

NOT TO SCALE

NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

Mar 08, 2016 - 4:06pm Mickey C. X:\Kenmore_City of Projects\2017\1701 - Professional Services Contract 12-C\082\027 - Kenmore NE 181st St South Side Sidewalk\201701 TC.dwg Layout Name: TC4

| No. | Date | Revision | By | Appr. |
|-----|------|----------|----|-------|
| | | | | |

Perteet
 425-252-7700 | 1-800-615-9900
 2707 Colby Avenue, Suite 900
 Everett, Washington 98201



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|-------------|----|------------|----------|
| Drawn By | MC | Date | 03/08/16 |
| Designed By | CP | Checked By | DD |
| Approved By | DD | Date | 03/08/16 |

CITY OF KENMORE
 NE 181ST ST SOUTH SIDE SIDEWALK
TRAFFIC CONTROL PLAN

| | |
|-------------|-----|
| Drawing No. | TC4 |
| Sheet No. | 31 |
| of Total | 31 |