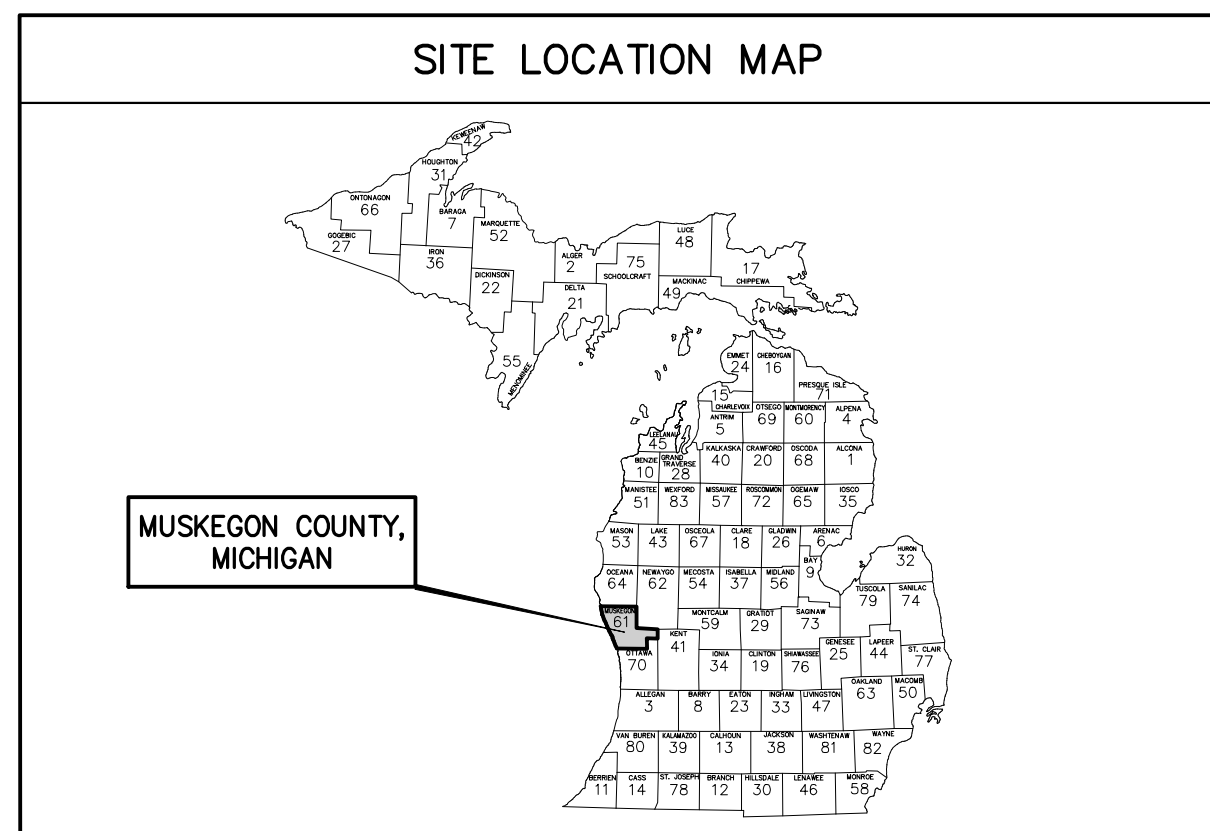
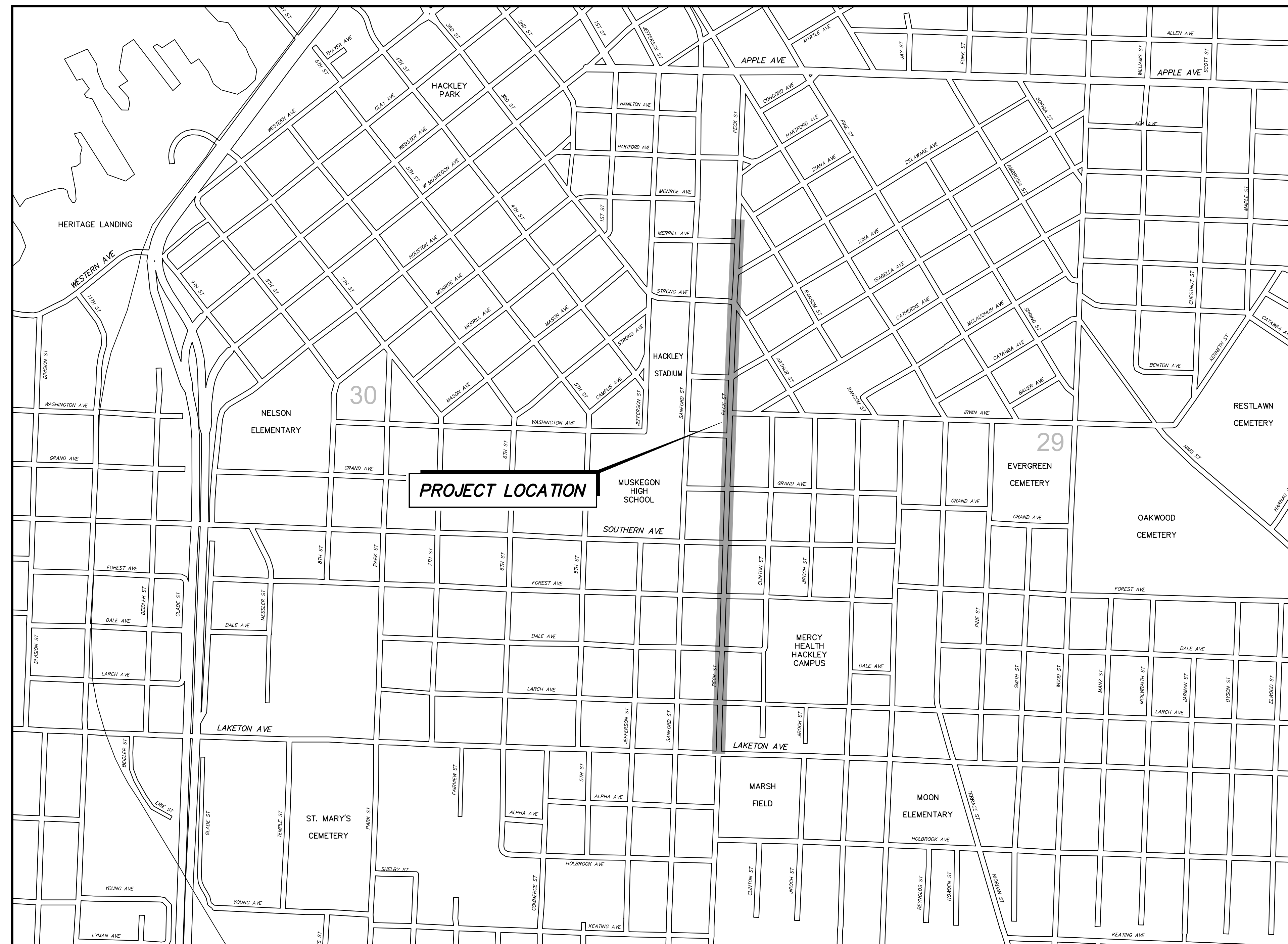
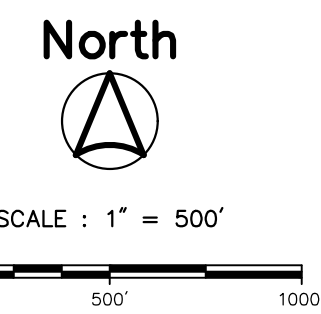


**CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN**

STREET AND UTILITY IMPROVEMENTS

PECK STREET : LAKETON TO MERRILL SRF PROJECT #5679-01 DWRF PROJECT #7466-01



SOIL BORING GENERAL NOTES

WITHIN EACH SOIL BORING, SOIL SAMPLES WERE OBTAINED BY THE STANDARD PENETRATION TEST METHOD, ASTM D1586, WHEREBY A SPLIT-SPOON SAMPLER IS DRIVEN THREE SUCCESSIVE 6-INCH INCREMENTS WITH A 140 POUND WEIGHT FALLING 30 INCHES. THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLER FOR EACH INCREMENT IS PRESENTED ON THE SOIL BORING LOGS.

THE SOIL BORING LOGS SHOWN ON THE CONSTRUCTION PLANS ARE BEING FURNISHED FOR YOUR CONVENIENCE AND GENERAL INFORMATION ONLY. THE DATA SHOWN ON THE BORING LOGS REPRESENTS SOIL AND GROUNDWATER CONDITIONS ENCOUNTERED AT THE RESPECTIVE BORING LOCATIONS. VARIATIONS MAY OCCUR BETWEEN THESE LOCATIONS. ADDITIONALLY, THE STRATIGRAPHIC LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES; HOWEVER, THE TRANSITION MAY BE MORE GRADUAL THAN WHAT IS SHOWN. FURTHERMORE, GROUNDWATER LEVELS CAN FLUCTUATE WITH SEASONAL VARIATIONS AND FOLLOWING PERIODS OF PROLONGED PRECIPITATION. THE BIDDER WILL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH SUBSURFACE CONDITIONS BY WHATEVER MEANS HE DEEMS NECESSARY AND SHALL MAKE HIS OWN DETERMINATIONS THEREFROM.

THE BIDDER BY SUBMITTING A BID, WAIVES ALL CLAIM FOR DAMAGES WHICH HE MAY SUFFER BY REASONS OF THE INADEQUACIES OR DISCREPANCIES OF THE INFORMATION SHOWN ON THESE SOIL BORING LOGS AND UNDERSTANDS THAT NO COMPENSATION WILL BE PAID TO HIM DUE TO AN INADEQUACY OR DISCREPANCY IN THIS DATA.

GENERAL NOTES

- CONTRACTOR TO CALL MISS DIG (CALL TOLL FREE 1-800-482-7171) THREE WORKING DAYS BEFORE STARTING YOUR PROJECT. (EXCLUDING WEEKENDS AND HOLIDAYS)
- CONTRACTOR SHALL PRESERVE ALL GOVERNMENT AND PROPERTY CORNERS.

SOIL EROSION CONTROL NOTES

TEMPORARY SEEDING :
TEMPORARY SEEDING SHALL BE CAST ON ALL DISTURBED AREAS AS DIRECTED BY THE ENGINEER WITHIN 1 WEEK OF DISTURBANCE.

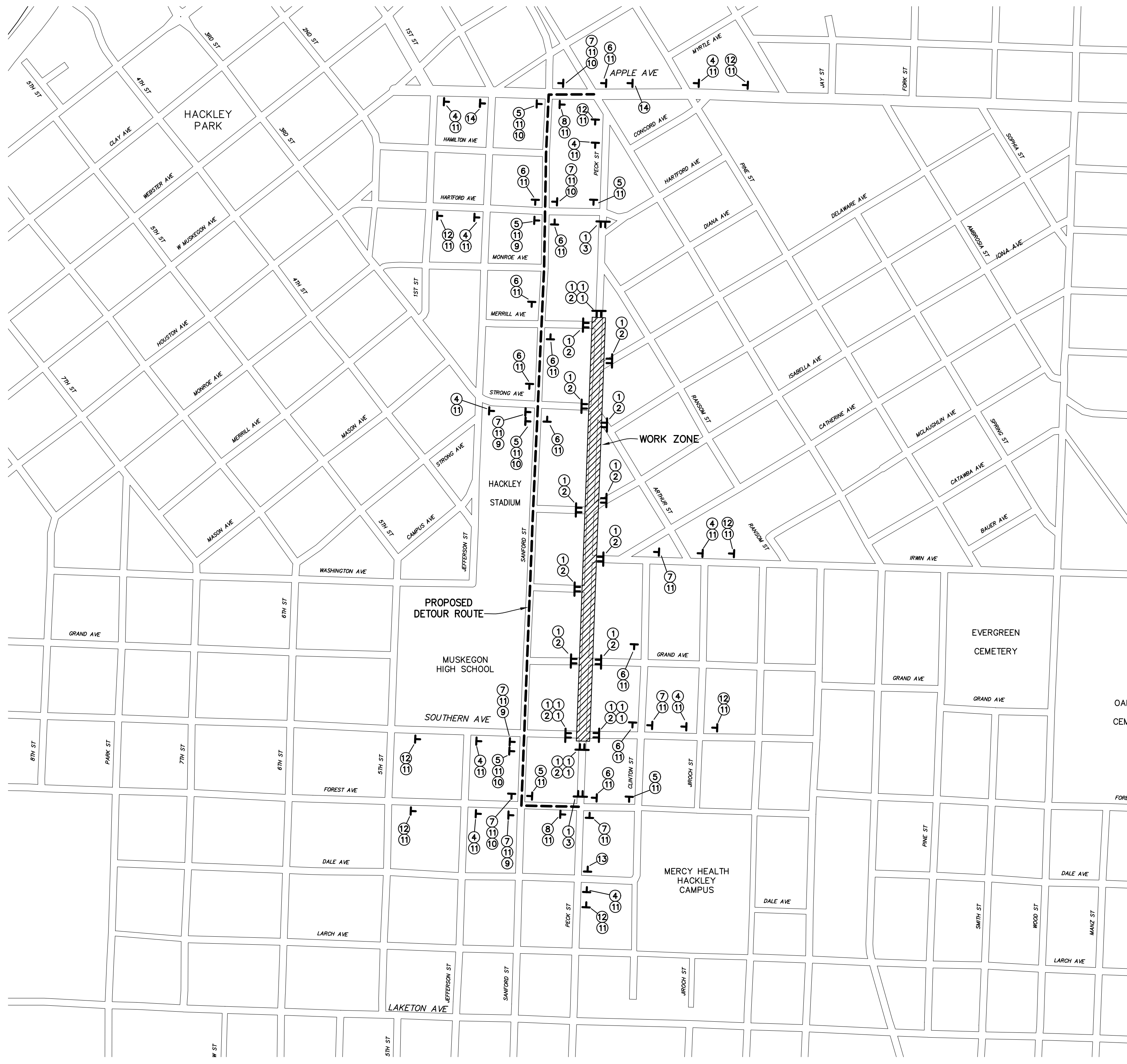
UTILITIES

| | |
|---|--|
| ELECTRIC-DISTRIBUTION CONSUMERS ENERGY 700 E. STERNBERG RD. MUSKEGON, MI 49441 PHONE : (231) 332-2682 ATTN: JOEL BROWN JOEL.M.BROWN@CSEENERGY.COM | STORM SEWER CITY OF MUSKEGON 1350 E. KEATING AVE. MUSKEGON, MI 49442 PHONE : (231) 724-6992 ATTN: VERNON BERNDT VERN.BERNDT@SHORELINECITY.COM |
| GAS DTE ENERGY 2359 OLTHOF DR. MUSKEGON, MI 49444 PHONE : (231) 777-4034 ATTN: VINCE DUCA DUCAVIN@DTEENERGY.COM | COMMUNICATION FRONTIER COMMUNICATIONS 960 TERRACE ST. MUSKEGON, MI 49443 PHONE : (231) 727-1319 ATTN: DAVE FLERMOEN DAVID.B.FLERMOEN@FTR.COM |
| WATER & SANITARY CITY OF MUSKEGON 1350 E. KEATING AVE. MUSKEGON, MI 49442 PHONE : (231) 724-4184 ATTN: DAVE BAKER DAVE.BAKER@SHORELINECITY.COM | CABLE TELEVISION COMCAST 700 W. BROADWAY MUSKEGON, MI 49441 PHONE: (231) 375-5112 ATTN: JON CHARLAND JONATHAN_CHARLAND@COMCAST.COM |

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.
Know what's below. Call before you dig.

| SHEET INDEX | |
|-------------|--|
| SHEET No. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | MAINTENANCE OF TRAFFIC |
| 3 | MAINTENANCE OF TRAFFIC |
| 4 | TYPICAL CROSS SECTIONS & DETAILS |
| 5 | REMOVAL PLAN (STA. 19+00 TO STA. 27+00) |
| 6 | REMOVAL PLAN (STA. 27+00 TO STA. 35+00) |
| 7 | REMOVAL PLAN (STA. 35+00 TO STA. 43+00) |
| 8 | REMOVAL PLAN (STA. 43+00 TO STA. 52+00) |
| 9 | REMOVAL PLAN (STA. 52+00 TO STA. 61+00) |
| 10 | PECK ST. STREET IMPROVEMENTS (STA. 19+00 TO STA. 27+00) |
| 11 | PECK ST. STREET IMPROVEMENTS (STA. 27+00 TO STA. 35+00) |
| 12 | PECK ST. STREET IMPROVEMENTS (STA. 35+00 TO STA. 43+00) |
| 13 | PECK ST. STREET IMPROVEMENTS (STA. 43+00 TO STA. 52+00) |
| 14 | PECK ST. STREET IMPROVEMENTS (STA. 52+00 TO STA. 61+00) |
| 15 | PECK ST. UTILITY IMPROVEMENTS (STA. 19+00 TO STA. 27+00) |
| 16 | PECK ST. UTILITY IMPROVEMENTS (STA. 27+00 TO STA. 35+00) |
| 17 | PECK ST. UTILITY IMPROVEMENTS (STA. 35+00 TO STA. 43+00) |
| 18 | PECK ST. UTILITY IMPROVEMENTS (STA. 43+00 TO STA. 52+00) |
| 19 | PECK ST. UTILITY IMPROVEMENTS (STA. 52+00 TO STA. 61+00) |
| 20 | GRADING DETAILS |
| 21 | GRADING DETAILS |
| 22 | GRADING DETAILS |
| 23 | GRADING DETAILS |
| 24 | SIDEWALK GRADING DETAILS |
| 25 | SIDEWALK GRADING DETAILS |
| 26 | SIDEWALK GRADING DETAILS |
| 27 | PAVEMENT MARKINGS & SIGNAGE PLAN |
| 28 | PAVEMENT MARKINGS & SIGNAGE PLAN |

| | |
|---|-------------------------------|
| <p>Prein & Newhof Engineers • Surveyors • Environmental • Laboratory</p> | PROJECT NO. 2190730 |
| | SHEET NO. 1 OF 28 |



LEGEND

| | |
|--|---------------------------------------|
| | TYPE III BARRICADE, HIGH INTENSITY |
| | CONSTRUCTION SIGN |

DETOUR SIGNING REQUIREMENTS

| # | SIGN DESIGNATION | SIGN DESCRIPTION | SIGN SIZE | NO. REQ. |
|----|--------------------|---|-----------|----------|
| 1 | TYPE III BARRICADE | TYPE III BARRICADE, HIGH INTENSITY, DOUBLE SIDED, LIGHTED | NA | 24 |
| 2 | R11-2 | ROAD CLOSED | 60" X 30" | 14 |
| 3 | R11-4 | ROAD CLOSED TO THRU TRAFFIC | 60" X 30" | 2 |
| 4 | W20-2 | DETOUR AHEAD | 48" X 48" | 10 |
| 5 | M4-9R | DETOUR RIGHT | 30" X 24" | 7 |
| 6 | M4-9 | DETOUR THRU | 30" X 24" | 10 |
| 7 | M4-9L | DETOUR LEFT | 30" X 24" | 9 |
| 8 | M4-8a | END DETOUR | 24" X 18" | 2 |
| 9 | ** M3-1 | NORTH | 24" X 12" | 4 |
| 10 | ** M3-3 | SOUTH | 24" X 12" | 6 |
| 11 | D3-1 | PECK ST. | 48" X 12" | 46 |
| 12 | W20-1 | ROAD WORK AHEAD | 48" X 48" | 8 |
| 13 | SPECIAL | PECK ST. CLOSED AT SOUTHERN AVE. FOLLOW DETOUR | 60" X 30" | 1 |
| 14 | SPECIAL | PECK ST. CLOSED AT MERRILL AVE. FOLLOW DETOUR | 60" X 30" | 2 |

** M3-SERIES SIGNS USED WITH DETOUR TO BE BLACK LETTERS AND A BLACK BORDER ON A FLUORESCENT ORANGE BACKGROUND

MAINTENANCE OF TRAFFIC PLAN

SCALE : 1" = NONE

North

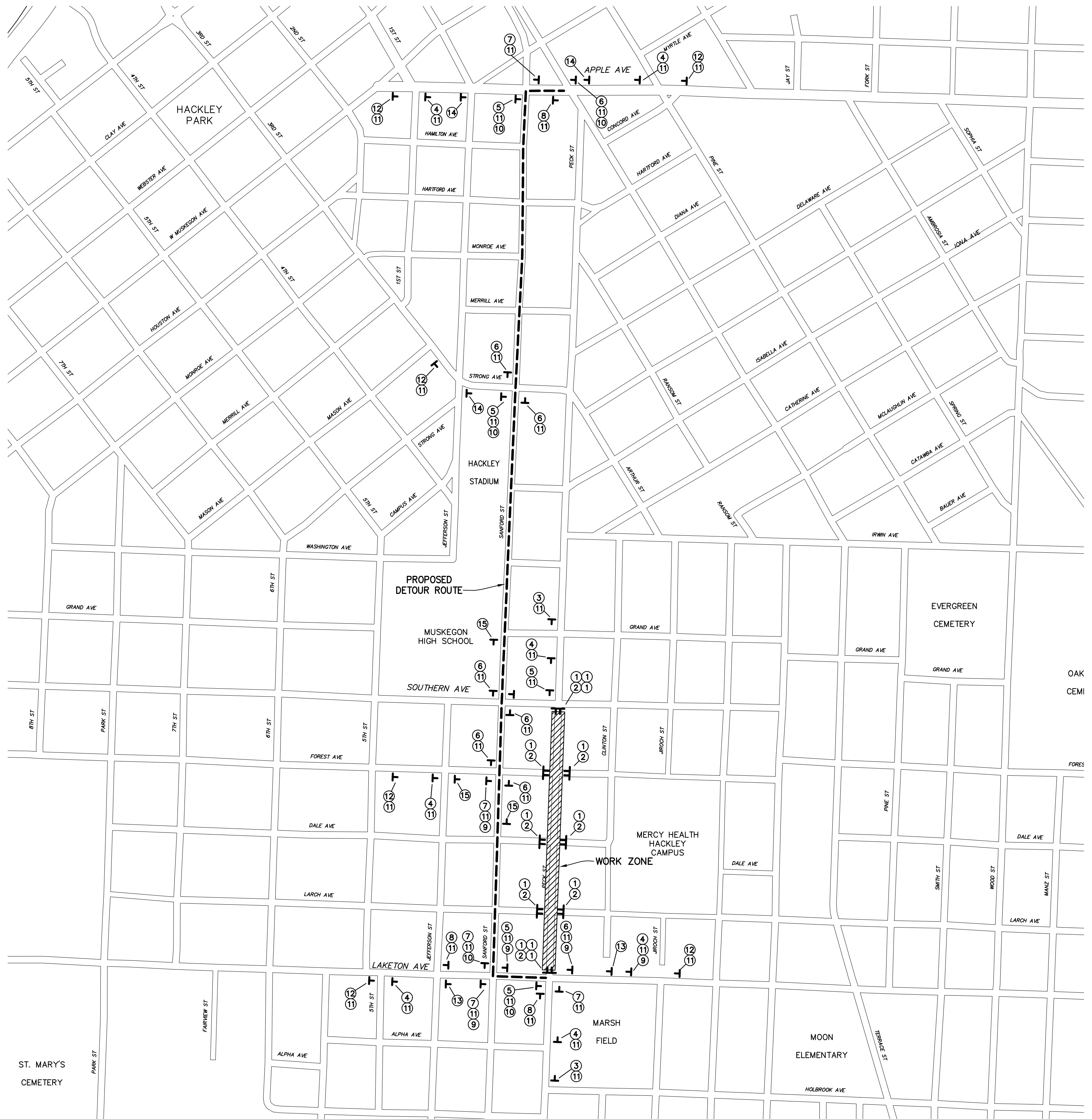
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| NO. | REVISIONS | BY | DATE | DRAWN |
|-----|-----------|----|------|---------|
| | | | | S.M.T. |
| | | | | MAY '20 |
| | | | | S.M.T. |
| | | | | MAY '20 |

Prein & Newhof
Engineers • Surveyors • Environmental • Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
SOUTHERN AVE. TO NORTH
OF MERRILL AVE.
MAINTENANCE OF TRAFFIC - STAGE 1

PROJECT NO.
2190730
SHEET NO.
2 OF 28



LEGEND

| | |
|--|------------------------------------|
| | TYPE III BARRICADE, HIGH INTENSITY |
| | CONSTRUCTION SIGN |

DETOUR SIGNING REQUIREMENTS

| # | SIGN DESIGNATION | SIGN DESCRIPTION | SIGN SIZE | NO. REQ. |
|----|--------------------|---|-----------|----------|
| 1 | TYPE III BARRICADE | TYPE III BARRICADE, HIGH INTENSITY, DOUBLE SIDED, LIGHTED | NA | 12 |
| 2 | R11-2 | ROAD CLOSED | 60" X 30" | 8 |
| 3 | W20-3 | ROAD CLOSED AHEAD | 60" X 30" | 2 |
| 4 | W20-2 | DETOUR AHEAD | 48" X 48" | 7 |
| 5 | M4-9R | DETOUR RIGHT | 30" X 24" | 5 |
| 6 | M4-9 | DETOUR THRU | 30" X 24" | 8 |
| 7 | M4-9L | DETOUR LEFT | 30" X 24" | 5 |
| 8 | M4-8a | END DETOUR | 24" X 18" | 3 |
| 9 | ** M3-1 | NORTH | 24" X 12" | 5 |
| 10 | ** M3-3 | SOUTH | 24" X 12" | 5 |
| 11 | D3-1 | PECK ST. | 48" X 12" | 38 |
| 12 | W20-1 | ROAD WORK AHEAD | 48" X 48" | 6 |
| 13 | SPECIAL | PECK ST. CLOSED FOLLOW DETOUR | 60" X 30" | 2 |
| 14 | SPECIAL | PECK ST. CLOSED AT FOREST AVE. FOLLOW DETOUR | 60" X 30" | 3 |
| 15 | SPECIAL | HOSPITAL ACCESS VIA SOUTHERN AVE. | 60" X 30" | 3 |

** M3-SERIES SIGNS USED WITH DETOUR TO BE BLACK LETTERS AND A BLACK BORDER ON A FLUORESCENT ORANGE BACKGROUND

NOTE: ACCESS TO MERCY HEALTH HACKLEY CAMPUS SHALL REMAIN OPEN AT ALL TIMES. FOREST AVENUE SHALL BE OPEN FOR EMERGENCY VEHICLE TRAFFIC ONLY.

MAINTENANCE OF TRAFFIC PLAN
 SCALE : 1" = NONE



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| NO. | REVISIONS | BY | DATE |
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DRAWN: S.M.T.
 DATE: MAY '20
 CHECKED: S.M.T.
 DATE: MAY '20

Prein & Newhof
 Engineers • Surveyors • Environmental • Laboratory

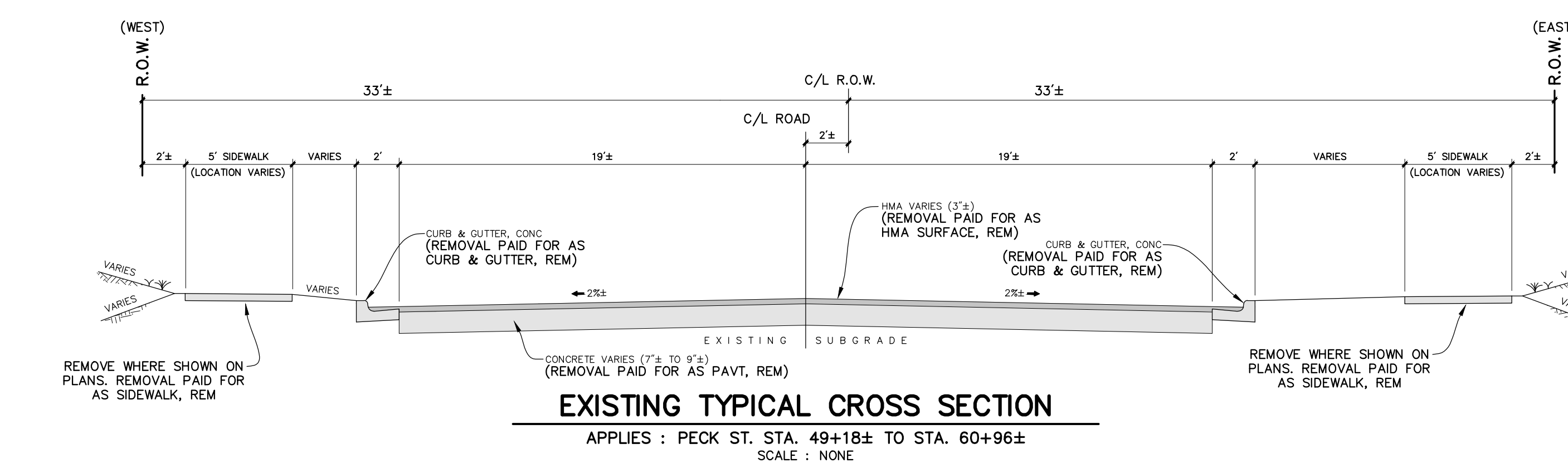
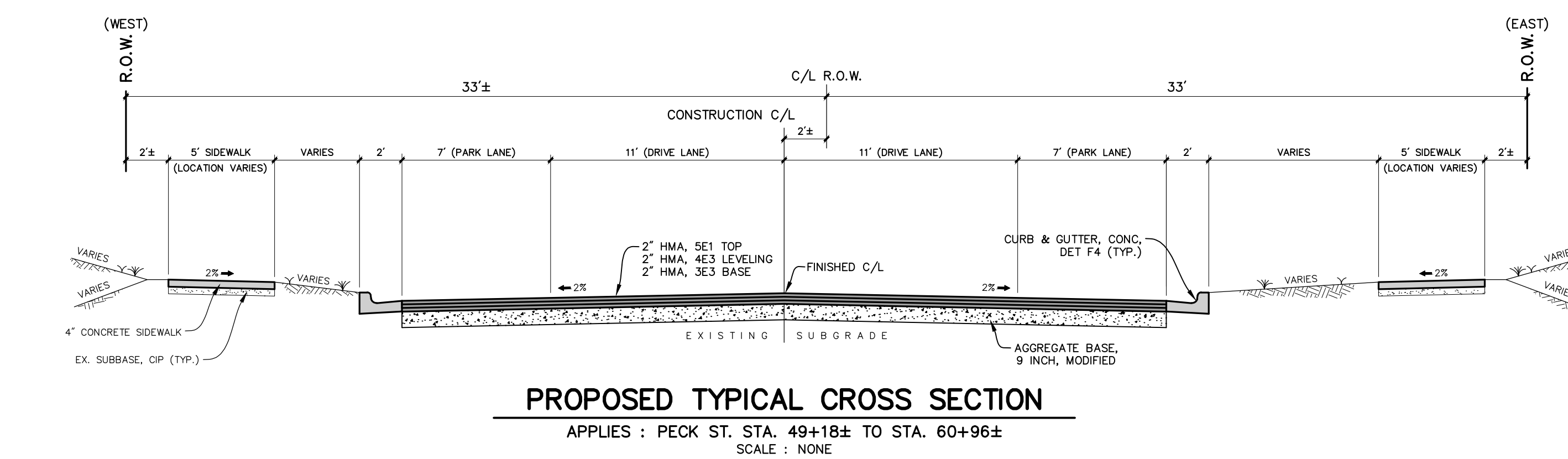
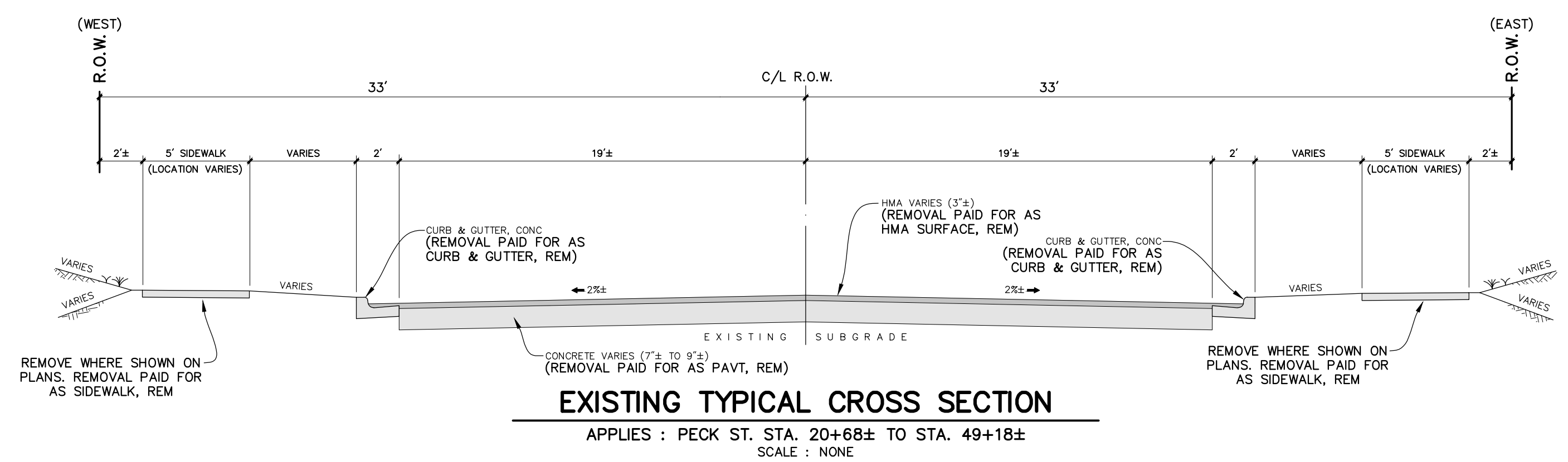
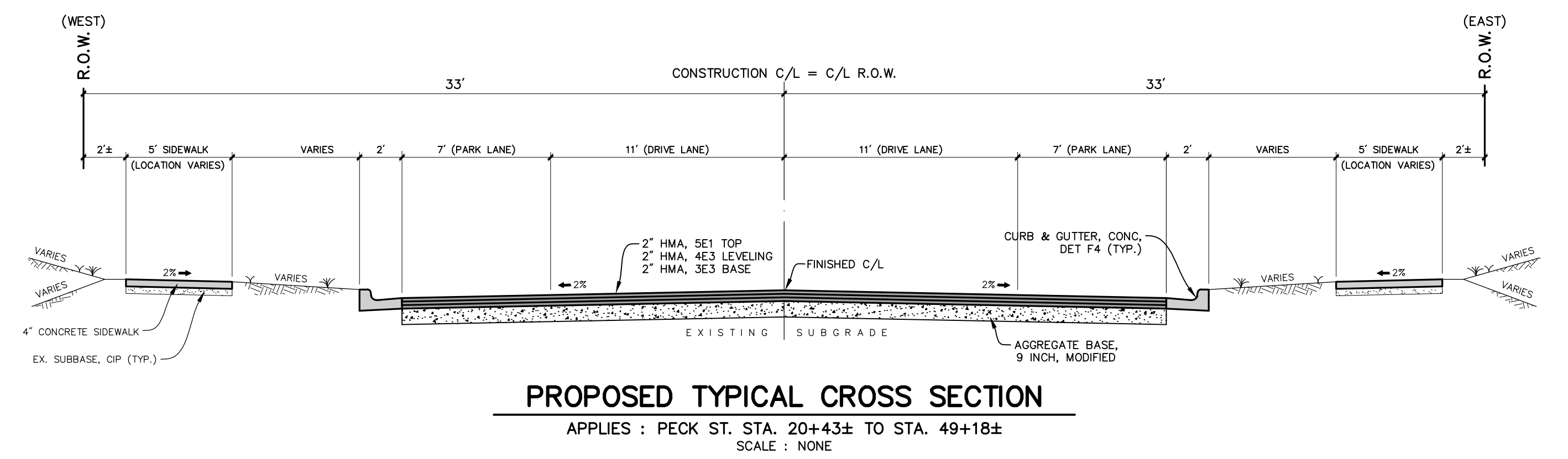
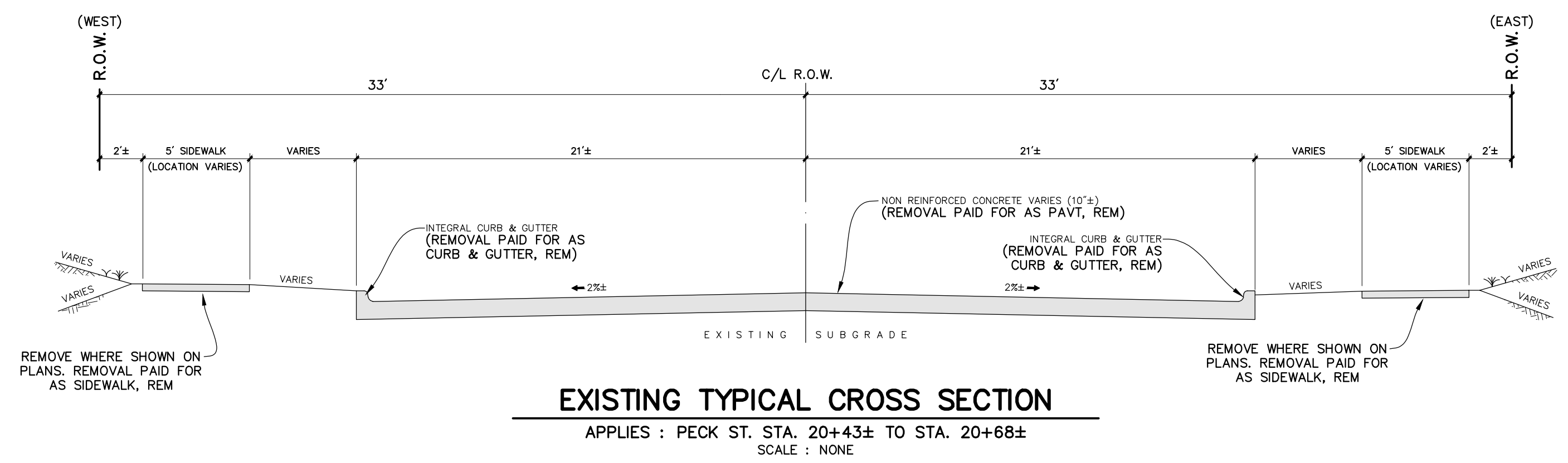
CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN

LAKETON AVE. TO SOUTHERN AVE.
 MAINTENANCE OF TRAFFIC – STAGE 2

PROJECT NO.
2190730

SHEET NO.
3 OF **28**

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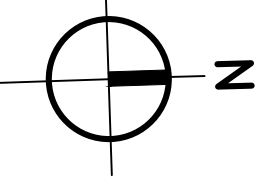
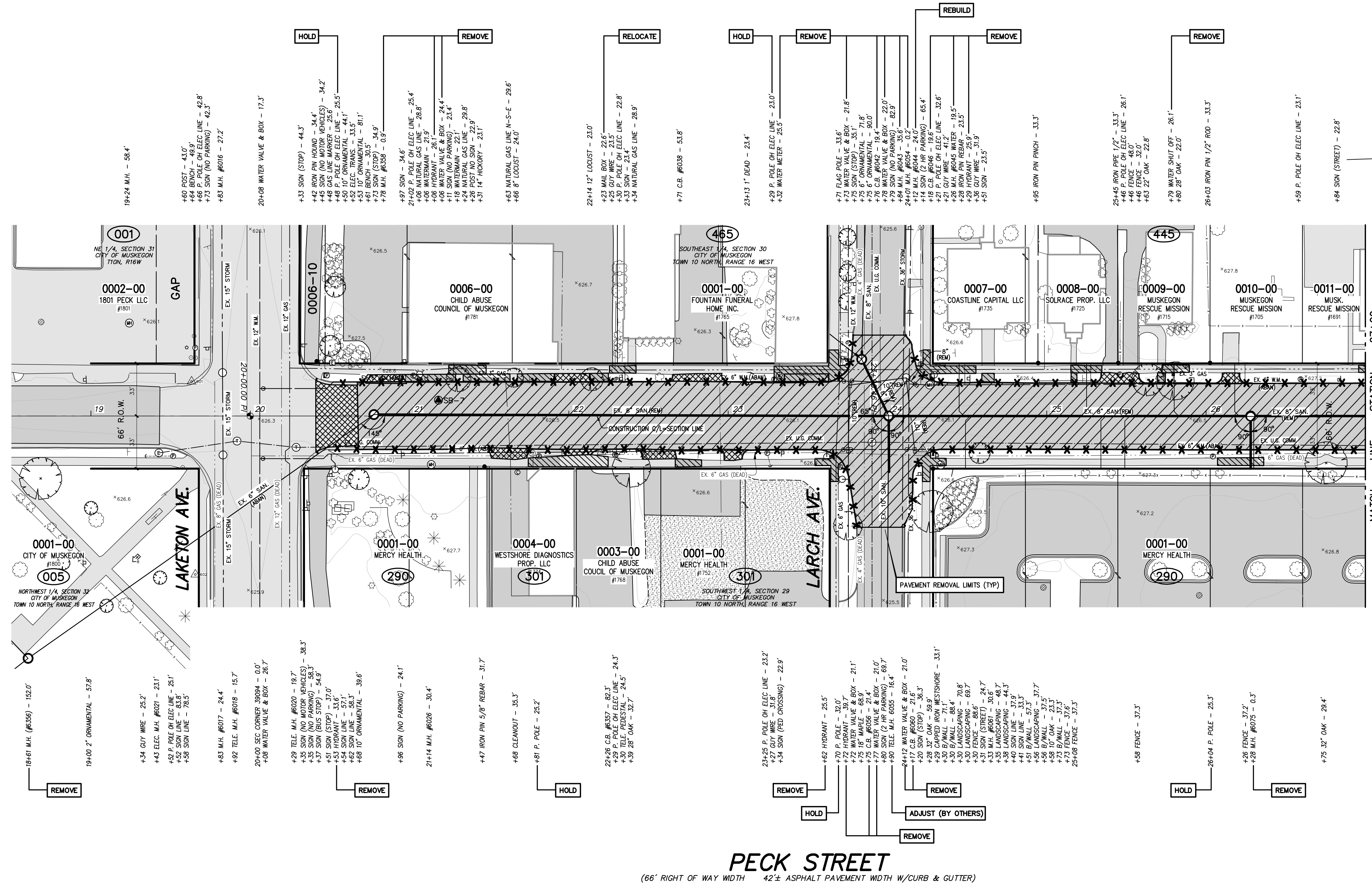


HOT MIX ASPHALT APPLICATION TABLE

| IDENT. # | PAY ITEM | MIXTURE | APPLICATION RATE | PERFORMANCE GRADE BINDER | REMARKS |
|----------|----------|---------|------------------|--------------------------|-----------------|
| 5E1 | HMA, 5E1 | 5E1 | 220 LBS/SYD | PG 64-28 | STREET TOP |
| 4E3 | HMA, 4E3 | 4E3 | 220 LBS/SYD | PG 64-28 | STREET LEVELING |
| 3E3 | HMA, 3E3 | 3E3 | 220 LBS/SYD | PG 64-28 | STREET BASE |

NOTES:
 1. HMA BOND COAT (MDOT SS-1h) SHALL BE APPLIED @ 0.05-0.15 GAL/SYD BETWEEN HMA LIFTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE HMA ITEMS. HMA BOND COAT SHALL ALSO BE APPLIED TO THE VERTICAL EDGE OF THE ADJACENT HMA PAVEMENT AND/OR CONCRETE CURB & GUTTER.
 2. HMA PAVEMENT DEPTH TO MATCH EXISTING HMA PAVEMENT THICKNESS.

| | | | | | | | |
|-----|-----------|----|------|-------------------|---|---|--|
| NO. | REVISIONS | BY | DATE | DRAWN J.J.S. | Prein & Newhof Engineers • Surveyors • Environmental • Laboratory | CITY OF MUSKEGON MUSKEGON COUNTY, MICHIGAN STREET IMPROVEMENTS TYPICAL CROSS SECTIONS & DETAILS | PROJECT NO. 2190730 SHEET NO. 4 OF 28 |
| | | | | DATE MAR. '20 | | | |
| | | | | CHECKED M.R.H. | | | |
| | | | | DATE MAR. '20 | | | |



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE.

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE, REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM

REMOVAL NOTES

1. ALL SANITARY SEWER PIPE AND MANHOLES SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED ON THE DRAWINGS. EXISTING LATERALS THAT ARE CUT AND NOT REPLACED SHALL BE BULK HEADED AT THE EDGE OF THE TRENCH.
2. WATER MAIN SHALL BE ABANDONED IN PLACE. ALL VALVE BOXES SHALL BE REMOVED AND DISPOSED OF. ALL CUT ENDS OF WATER MAIN SHALL BE BULK HEADED. ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. EXISTING WATER SERVICES SHALL BE CRIMPED, CAPPED OR SHUT AT THE CORPORATION STOP.
4. ALL EXISTING CATCH BASINS AND CATCH BASIN LEADS SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED WITHIN THE DRAWINGS.
5. CONCRETE PAVEMENT IS ANTICIPATED TO BE LOCATED UNDER THE HMA SURFACE ON PECK STREET WITHIN THE PROJECT LIMITS. CONCRETE PAVEMENT SHALL BE REMOVED AND PAID FOR AS: PAVT, REM.

PECK STREET

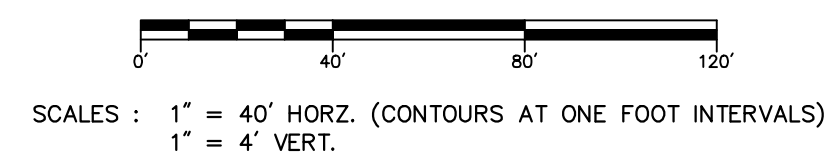
(66' RIGHT OF WAY WIDTH - 42± ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM : STATE PLANE GRID
 ELLIPSOID : MICHIGAN 2011R 2113
 HORIZONTAL DATUM : NAD 83 (2011)
 VERTICAL DATUM : NAVD 83
 ZONE : 16E
 UNITS : INTERNATIONAL FEET
 PROJECT COMBINED SCALE FACTOR (PCS) :
 GROUND DISTANCE - GRID DISTANCE / PCSF



| NO. | REVISIONS | BY | DATE |
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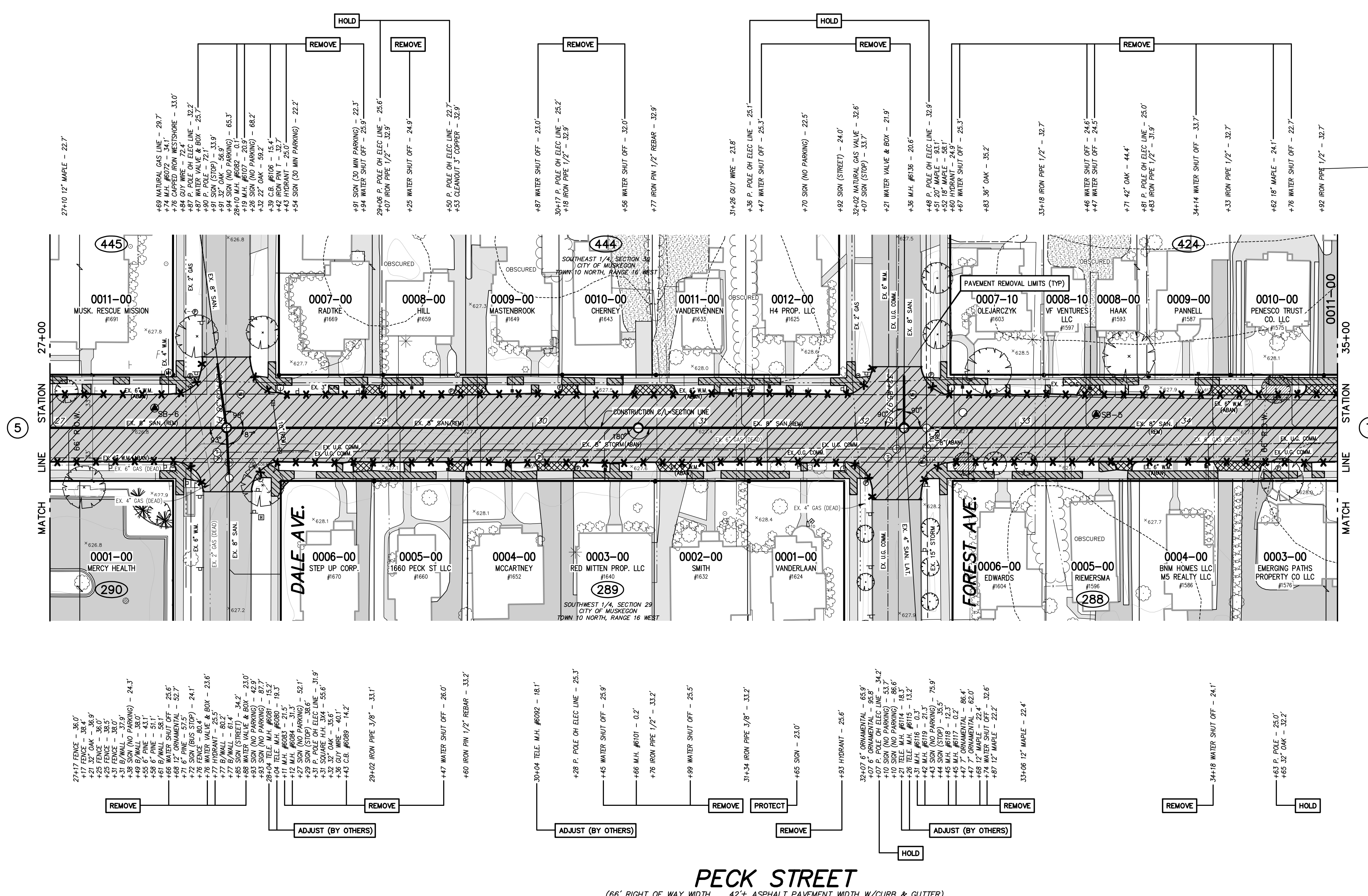
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|---------|----------|
| DRAWN | J.J.S. |
| DATE | MAR. '20 |
| CHECKED | M.R.H. |
| DATE | MAR. '20 |



CITY OF MUSKOGON
 MUSKOGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 REMOVAL PLAN

PROJECT NO.
 2190730
 SHEET NO.
 5 OF 28

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TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE.

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE, REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM

REMOVAL NOTES

1. ALL SANITARY SEWER PIPE AND MANHOLES SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED ON THE DRAWINGS. EXISTING LATERALS THAT ARE CUT AND NOT REPLACED SHALL BE BULK HEADED AT THE EDGE OF THE TRENCH.
2. WATER MAIN SHALL BE ABANDONED IN PLACE. ALL VALVE BOXES SHALL BE REMOVED AND DISPOSED OF. ALL CUT ENDS OF WATER MAIN SHALL BE BULK HEADED. ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. EXISTING WATER SERVICES SHALL BE CRIMPED, CAPPED OR SHUT AT THE CORPORATION STOP.
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PECK STREET

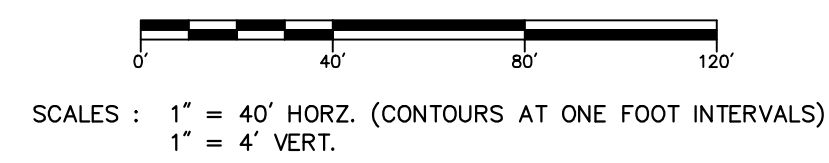
(66' RIGHT OF WAY WIDTH - 42' ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)



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PROJECT DATUM INFORMATION

| | |
|--|---------------------|
| COORDINATE SYSTEM: | STATE PLANE GRID |
| LINE: | MICHIGAN 2513H 2113 |
| ELLIPSOID: | GRS 80 |
| HORIZONTAL DATUM: | NAD 83 (2011) |
| VERTICAL DATUM: | NAVD 88 |
| ZONE: | 5600 TSB |
| UNITS: | INTERNATIONAL FEET |
| PROJECT CORNER SCALE FACTOR (PCS): | |
| GROUND DISTANCE - GRID DISTANCE, PCSF: | |



| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
| | | | |

DRAWN: J.J.S.
DATE: MAR. '20
CHECKED: M.R.H.
DATE: MAR. '20

Prein & Newhof
Engineers • Surveyors • Environmental • Laboratory

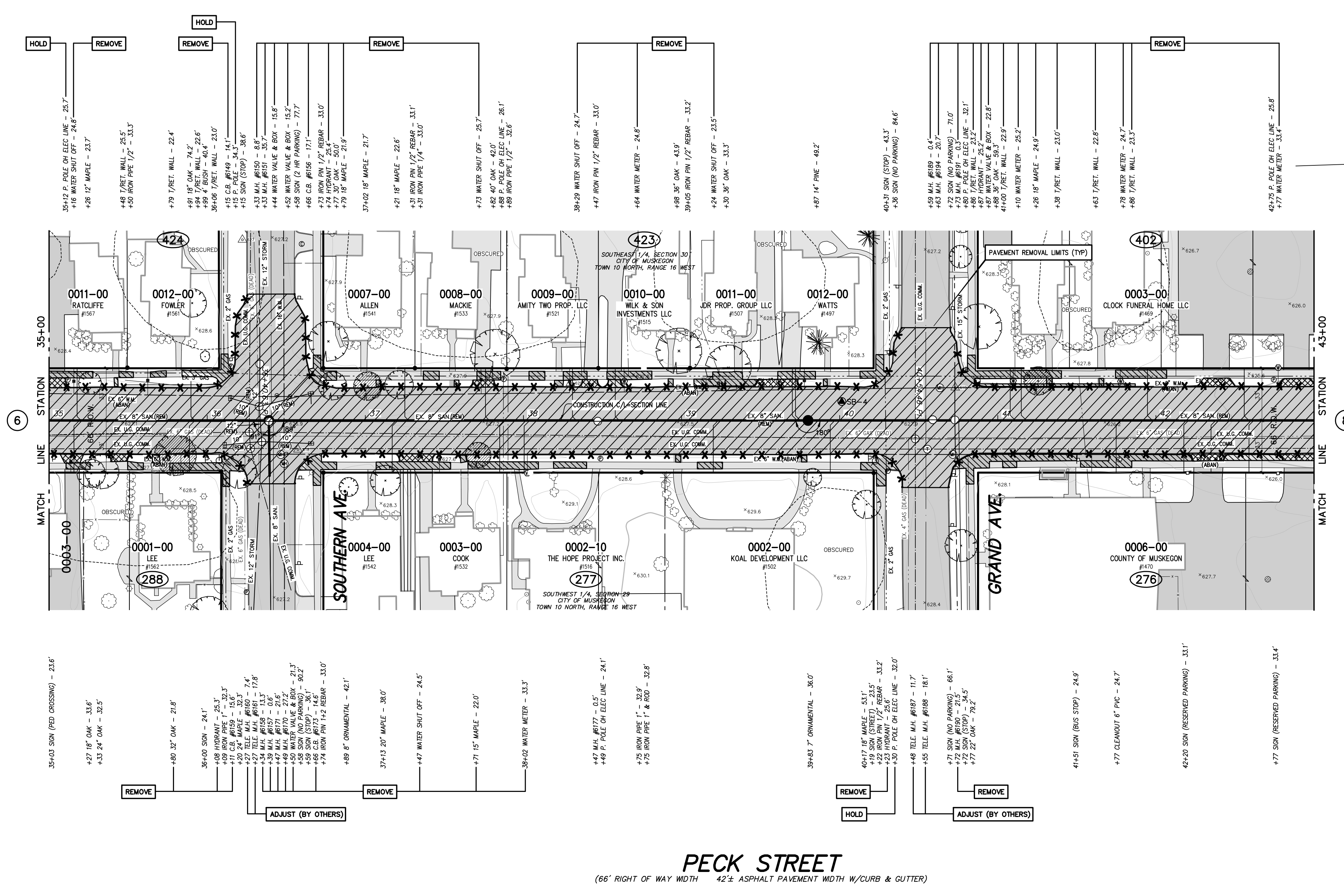
CITY OF MUSKOGON
MUSKOGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
REMOVAL PLAN

PROJECT NO.
2190730

SHEET NO.
6 OF 28

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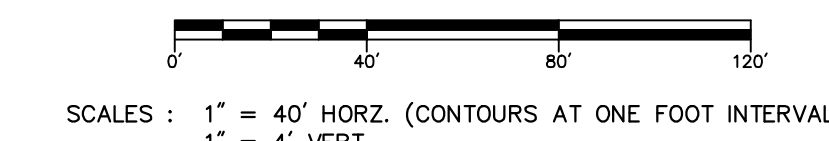
- TOPOGRAPHY TEXT NOTE**
 TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE.
- REMOVAL LEGEND**
- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE, REM
 - REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
 - REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
 - REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM
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PROJECT DATUM INFORMATION

| | |
|---------------------------------------|---------------------|
| COORDINATE SYSTEM : | STATE PLANE GRID |
| ZONE : | MICHIGAN 2501R 2113 |
| ELLIPSOID : | GRS 80 |
| HORIZONTAL DATUM : | NAD 83 (2011) |
| VERTICAL DATUM : | NAVD 83 |
| SCALE : | 5000 TSB |
| UNITS : | INTERNATIONAL FEET |
| PROJECT COMBINED SCALE FACTOR (PCS) : | |
| GROUND DISTANCE = GRID DISTANCE / PCS | |



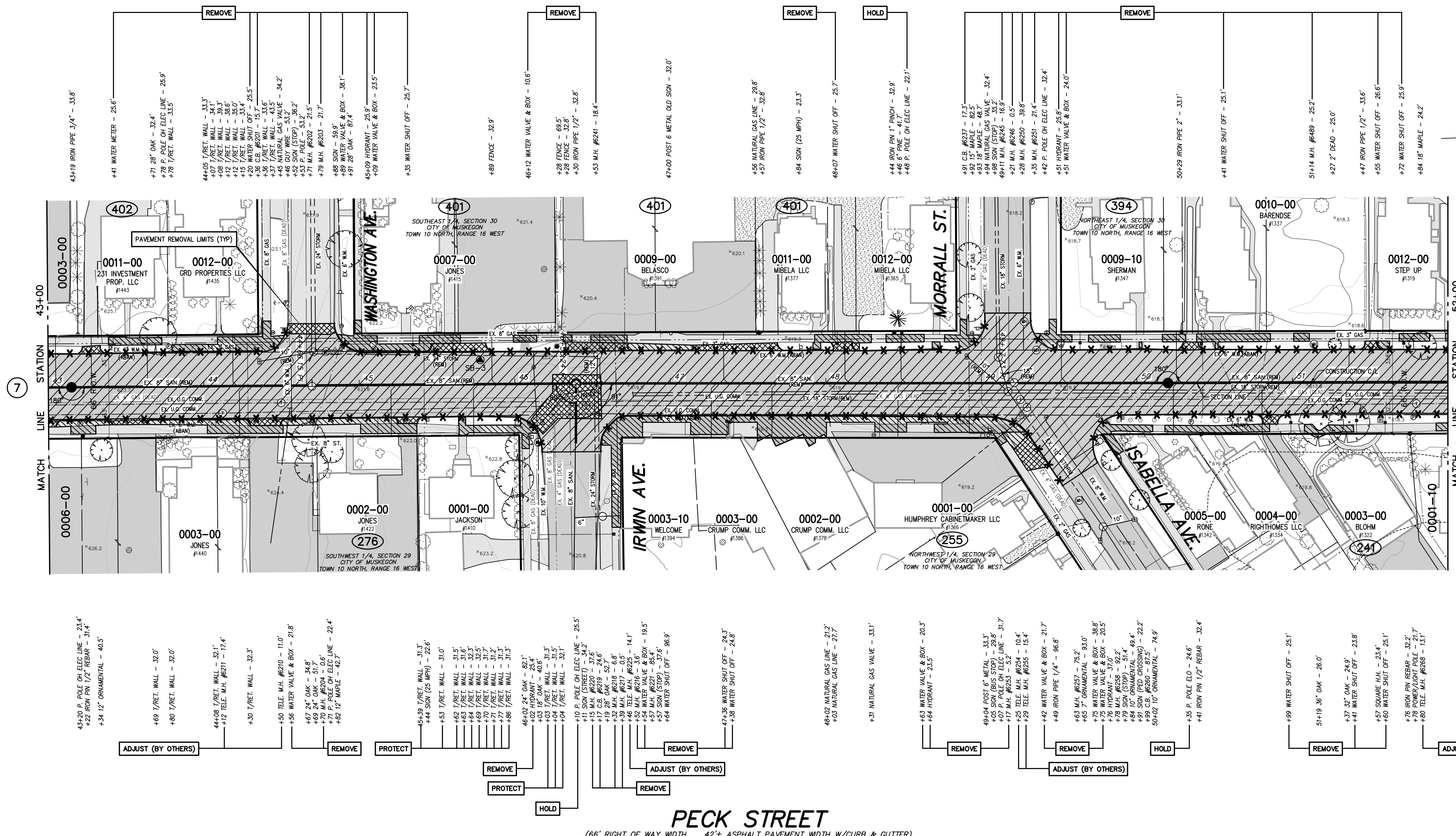
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|-----|-----------|----|------|
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| DRAWN | J.J.S. |
| DATE | MAR. '20 |
| CHECKED | M.R.H. |
| DATE | MAR. '20 |



CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 REMOVAL PLAN

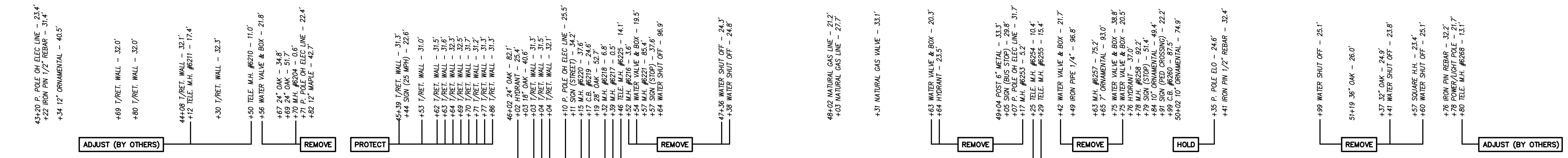
PROJECT NO.
 2190730
 SHEET NO.
 7 OF 28



TOPOGRAPHY TEXT NOTE
 TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE.

- REMOVAL LEGEND**
- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE, REM
 - REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
 - REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
 - REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM

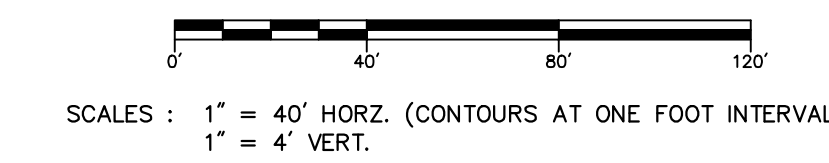
- REMOVAL NOTES**
1. ALL SANITARY SEWER PIPE AND MANHOLES SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED ON THE DRAWINGS. EXISTING LATERALS THAT ARE CUT AND NOT REPLACED SHALL BE BULK HEADED AT THE EDGE OF THE TRENCH.
 2. WATER MAIN SHALL BE ABANDONED IN PLACE. ALL VALVE BOXES SHALL BE REMOVED AND DISPOSED OF. ALL CUT ENDS OF WATER MAIN SHALL BE BULK HEADED. ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 3. EXISTING WATER SERVICES SHALL BE CRIMPED, CAPPED OR SHUT AT THE CORPORATION STOP.
 4. ALL EXISTING CATCH BASINS AND CATCH BASIN LEADS SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED WITHIN THE DRAWINGS.
 5. CONCRETE PAVEMENT IS ANTICIPATED TO BE LOCATED UNDER THE HMA SURFACE ON PECK STREET WITHIN THE PROJECT LIMITS. CONCRETE PAVEMENT SHALL BE REMOVED AND PAID FOR AS: PAVT, REM.



PECK STREET
 (66' RIGHT OF WAY WIDTH - 42' ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)

PROJECT DATUM INFORMATION

| | |
|--|---------------------|
| COORDINATE SYSTEM: | STATE PLANE GRID |
| LINE: | MICHIGAN 2501R 2113 |
| ELLIPSOID: | GRS 80 |
| HORIZONTAL DATUM: | NAD 83 (2011) |
| VERTICAL DATUM: | NAVD 83 |
| SEI: | 560.158 |
| UNITS: | INTERNATIONAL FEET |
| PROJECT COMPOUND SCALE FACTOR (PCS): | |
| GROUND DISTANCE & GRID DISTANCE, PCRF: | |



| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
| | | | |

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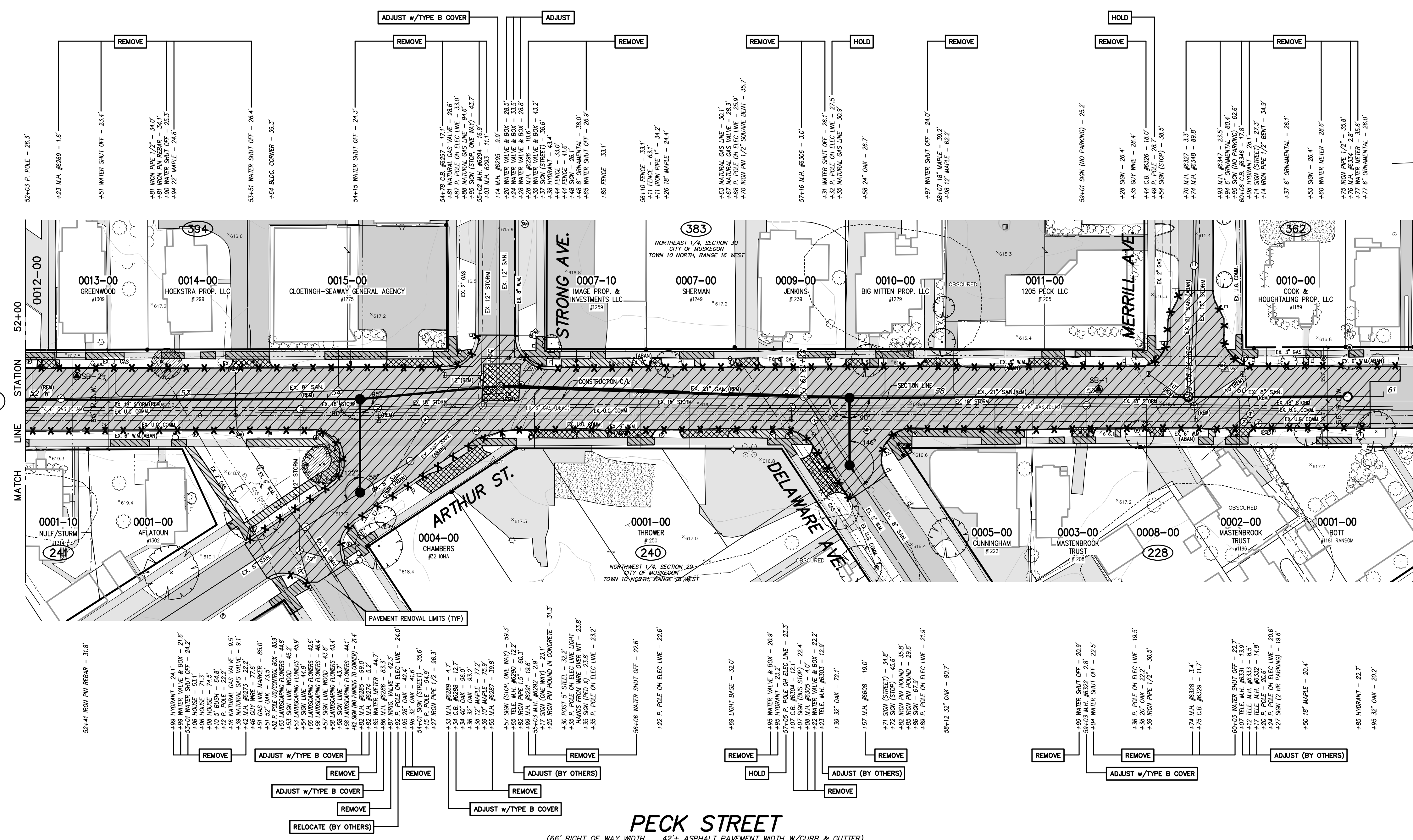
CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 REMOVAL PLAN

PROJECT NO.
2190730
 SHEET NO.
8 OF 28



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

T:\04\10\PROJECTS\2019\2190730\MUSKOGON\PECK STREET\PECK STREET.MXD - JSMITH - May, 28 2020 - 10:54am - P:\db\mawd



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE.

REMOVAL LEGEND

- REMOVE HMA SURFACE, PAID FOR AS: HMA SURFACE, REM
- REMOVE CONCRETE SIDEWALK PAID FOR AS: SIDEWALK, REM
- REMOVE CONCRETE PAVEMENT OR DRIVEWAY, PAID FOR AS: PAVT, REM
- REMOVE CURB, GUTTER OR CURB AND GUTTER, PAID FOR AS: CURB AND GUTTER, REM

REMOVAL NOTES

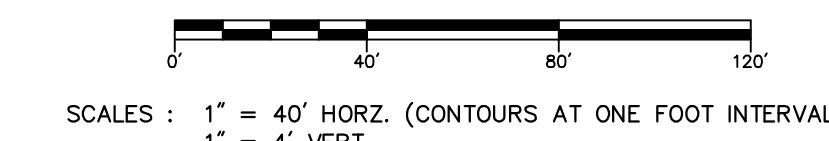
1. ALL SANITARY SEWER PIPE AND MANHOLES SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED ON THE DRAWINGS. EXISTING LATERALS THAT ARE CUT AND NOT REPLACED SHALL BE BULK HEADED AT THE EDGE OF THE TRENCH.
2. WATER MAIN SHALL BE ABANDONED IN PLACE. ALL VALVE BOXES SHALL BE REMOVED AND DISPOSED OF. ALL CUT ENDS OF WATER MAIN SHALL BE BULK HEADED. ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
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4. ALL EXISTING CATCH BASINS AND CATCH BASIN LEADS SHALL BE REMOVED WITHIN THE PROJECT LIMITS UNLESS NOTED TO BE ABANDONED ON THE DRAWINGS.
5. CONCRETE PAVEMENT IS ANTICIPATED TO BE LOCATED UNDER THE HMA SURFACE ON PECK STREET WITHIN THE PROJECT LIMITS. CONCRETE PAVEMENT SHALL BE REMOVED AND PAID FOR AS: PAVT, REM.



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM: STATE PLANE GRID
ZONE: MICHIGAN 2501R 2113
EIP/SPD: GRS 80
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 83
SDE: 15B
UNITS: INTERNATIONAL FEET
PROJECT COMBINED SCALE FACTOR (PCS) = GROUND DISTANCE ÷ GRID DISTANCE ÷ PCFS



| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
| | | | |

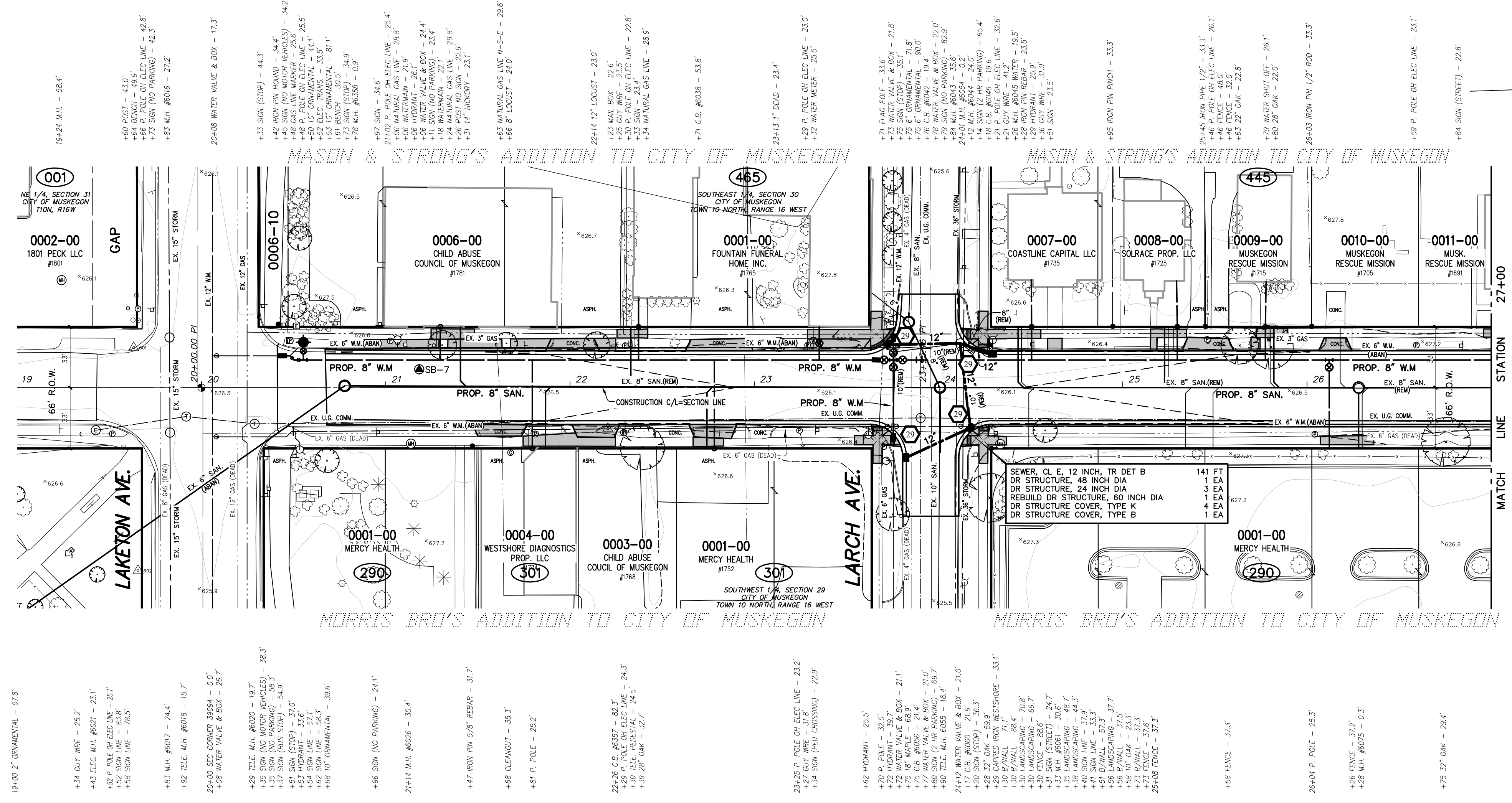
| | |
|---------|----------|
| DRAWN | J.J.S. |
| DATE | MAR. '20 |
| CHECKED | M.R.H. |
| DATE | MAR. '20 |

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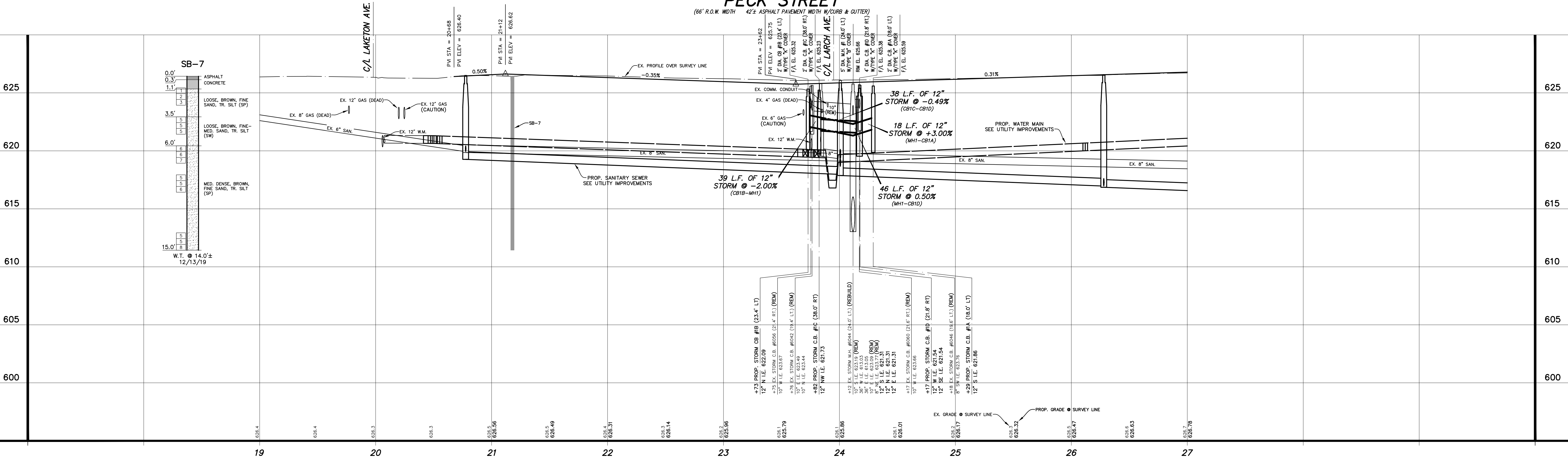
| | |
|---|------------------------|
| CITY OF MUSKOGON MUSKOGON COUNTY, MICHIGAN | PROJECT NO. 2190730 |
| STREET IMPROVEMENTS REMOVAL PLAN | SHEET NO. 9 OF 28 |

B.M. EL. 628.09
 PECK STREET & LAKETON AVENUE, 75'± S
 & 90'± E OF C/L "X", NW CORNER OF
 TOP OF NORTHERLY CONCRETE PLANTER

| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 601 | 632261.461 | 12622892.800 | 626.47 |
| 602 | 632299.733 | 12623033.890 | 626.63 |
| 604 | 632517.190 | 12622935.360 | 626.71 |
| 605 | 632716.536 | 12622940.610 | 625.80 |



- TOPOGRAPHY TEXT NOTE**
 TOPOGRAPHY TEXT STATIONS AND OFFSETS
 BASED ON SECTION LINE WHICH IS INDEPENDENT
 OF CONSTRUCTION CENTERLINE. TOPOGRAPHY
 TEXT SHOWN FOR INFORMATION ONLY. SEE
 REMOVAL PLANS FOR ACTION ITEMS.
- PROPOSED PAVEMENT LEGEND**
- PROPOSED DRIVEWAY, NONREINFC. CONC. 6 INCH
 - SIDEWALK RAMP, CONC. 6 INCH OR SIDEWALK, CONC. 4/6 INCH
- NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.
- SOIL EROSION CONTROL LEGEND**
- PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

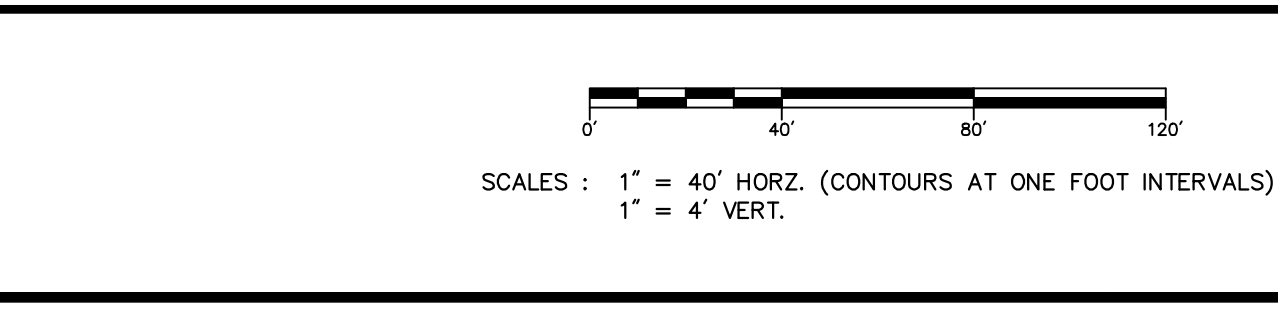


811
 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM: STATE PLANE GRID
 ZONE: MICHIGAN 2501R 2113
 ELLIPSOID: GRS 80
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 83
 SOURCE: 5000 15B
 UNITS: INTERNATIONAL FEET
 PROJECT COMPOUND SCALE FACTOR (PCSF) = 0.99992467704
 GROUND DISTANCE = GRID DISTANCE * PCSF



| NO. | REVISIONS | BY | DATE |
|-----|-------------------|--------|----------|
| 1 | ISSUED FOR PERMIT | J.J.S. | MAR. '20 |
| 2 | CHECKED | M.R.H. | MAR. '20 |

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CITY OF MUSKOGON
 MUSKOGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
 PECK STREET

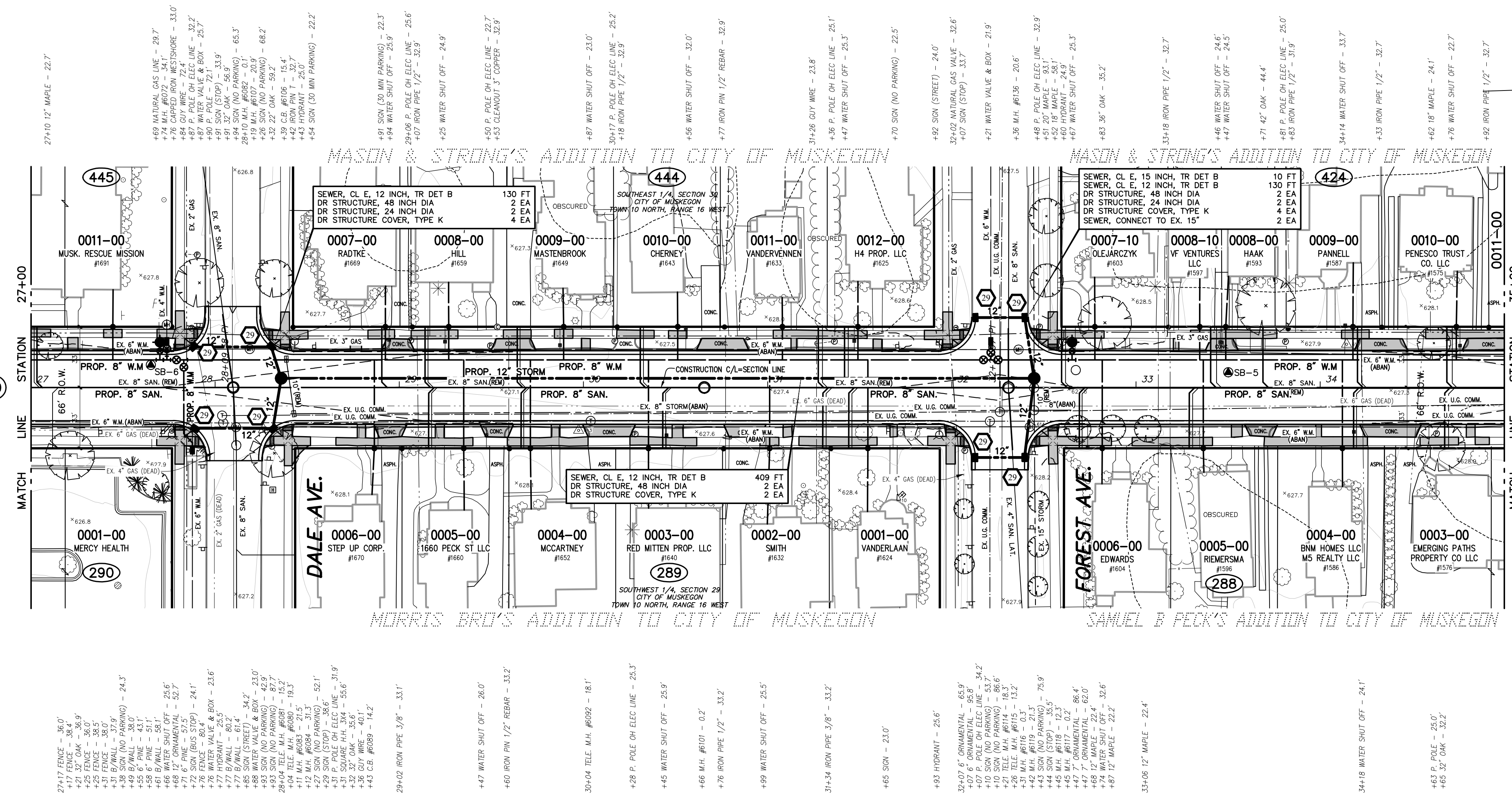
PROJECT NO.
 2190730

SHEET NO.
 10 OF 28

B.M. EL. 627.39
PECK STREET & DALE AVENUE, 20' ± S & 40' ± E OF C/L 'X', NW CORNER OF CONCRETE BUS STOP

B.M. EL. 629.02
PECK STREET & FOREST AVENUE, 60' ± S & 60' ± E OF C/L 'X', TOP OF BOTTOM STEP @ HOUSE #1624

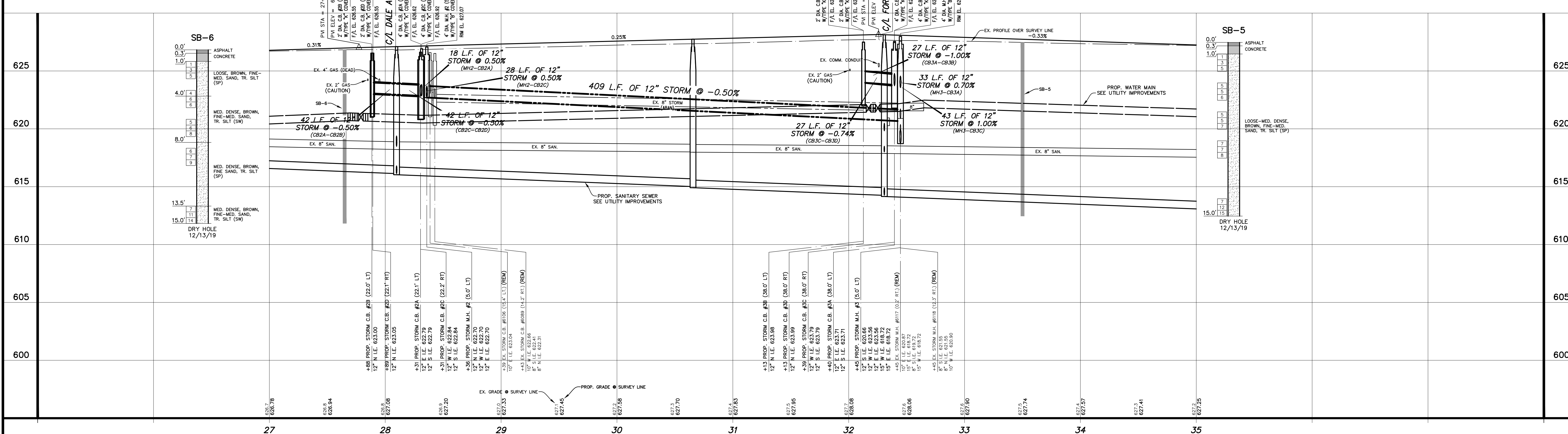
| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|-----------|-------------|-----------|
| 606 | 63322.519 | 1262296.190 | 626.68 |
| 613 | 63329.519 | 1262296.400 | 627.39 |
| 614 | 63359.365 | 1262297.330 | 627.57 |
| 617 | 63371.816 | 1262298.870 | 628.00 |



- TOPOGRAPHY TEXT NOTE**
TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.
- PROPOSED PAVEMENT LEGEND**
 - PROPOSED DRIVEWAY, NONREINFC CONC, 6 INCH
 - SIDEWALK RAMP, CONC, 6 INCH OR SIDEWALK, CONC, 4/6 INCH
- NOTES:** PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.
- SOIL EROSION CONTROL LEGEND**
 - PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP

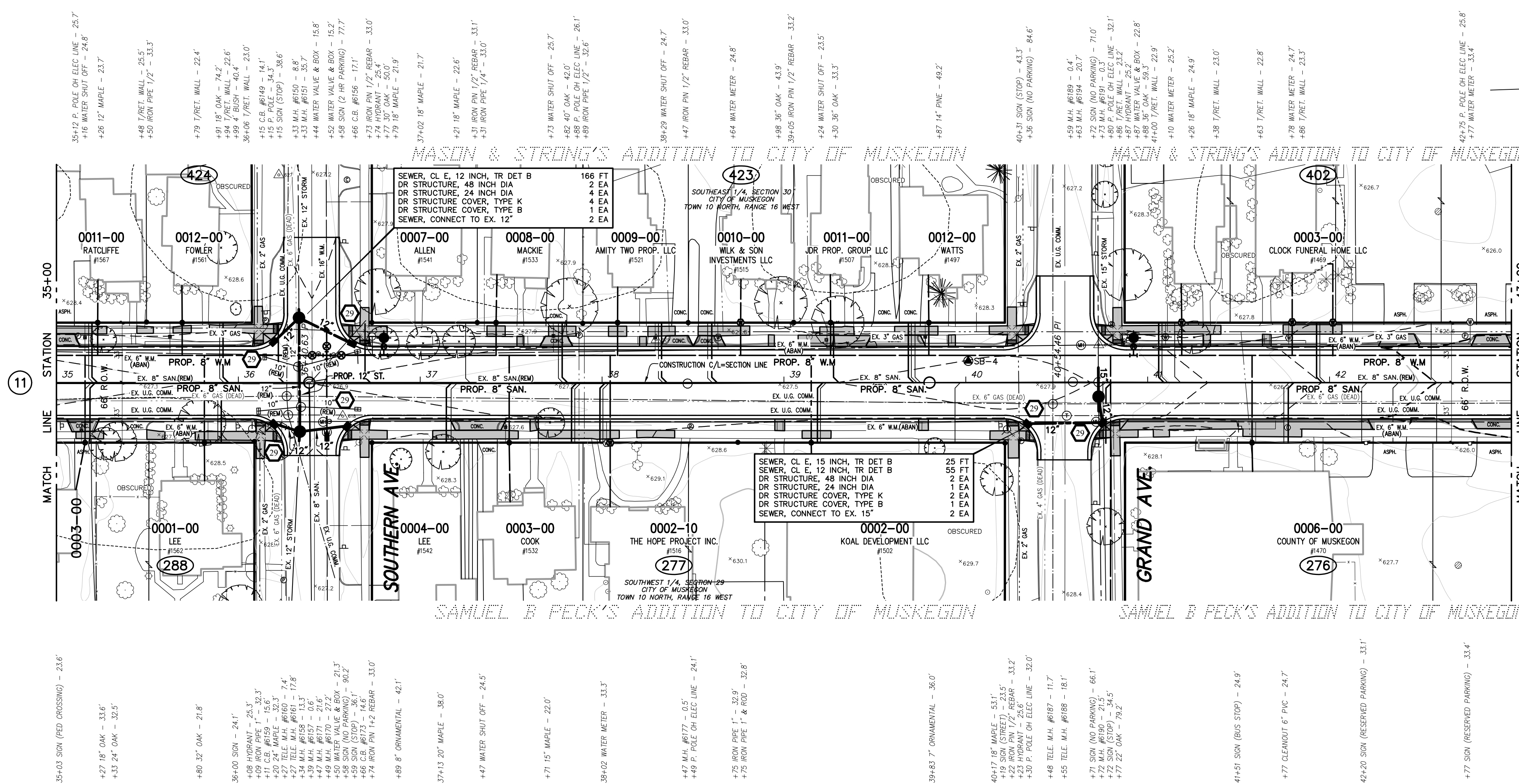
PECK STREET

(66' R.O.W. WIDTH 42' ± ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)

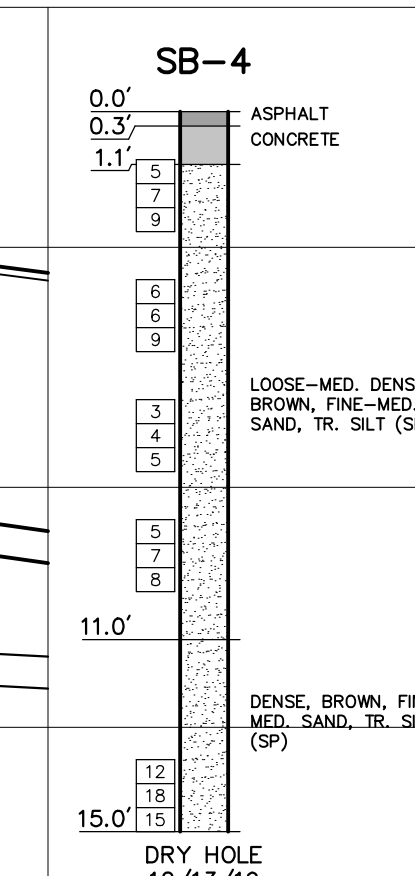
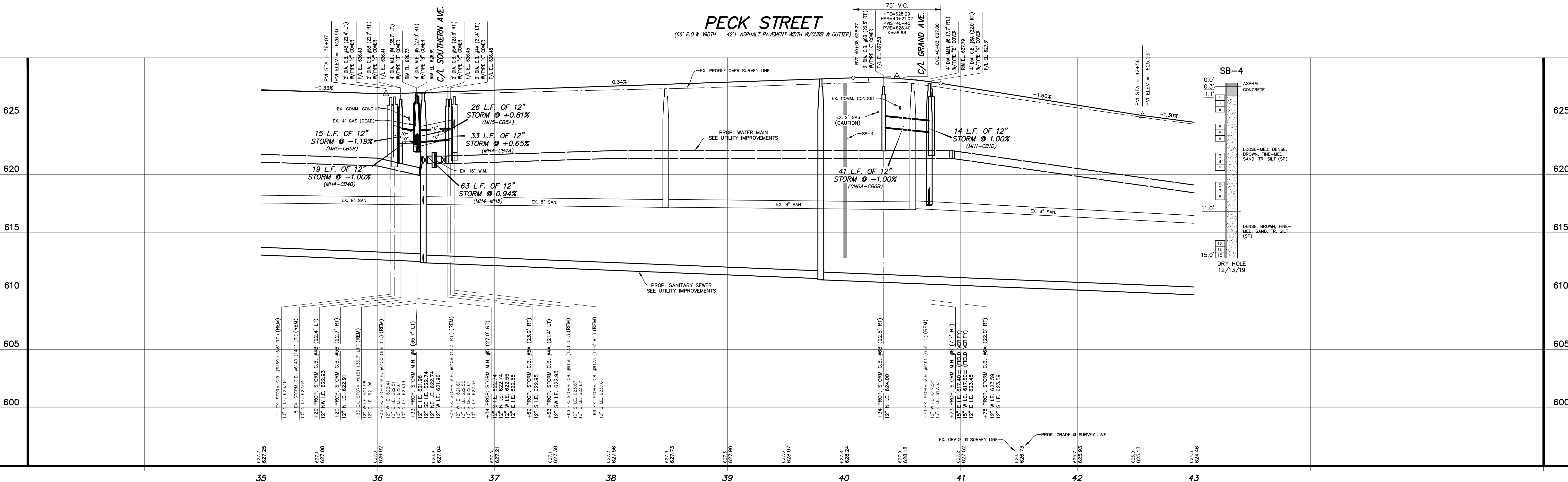


| | | | | | | | |
|--|--|---|--|---|--|---|------------------------|
| | | UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR INTERVIEW RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA. | PROJECT DATUM INFORMATION COORDINATE SYSTEM: STATE PLANE GRID ELEVATION DATUM: MEAN SEA LEVEL 1913 HORIZONTAL DATUM: GRS 80 VERTICAL DATUM: NAVD 83 SCALES: HORIZONTAL: 1" = 40' VERTICAL: 1" = 4' VERT. UNITS: INTERNATIONAL FEET PROJECT COMPILED SCALE FACTOR (PCSF) = 0.99992467704 GRID COORDINATE ZONE: 18N | NO. REVISIONS BY DATE DRAWN J.J.S. DATE MAR. '20 CHECKED M.R.H. DATE MAR. '20 | | CITY OF MUSKEGON MUSKEGON COUNTY, MICHIGAN STREET IMPROVEMENTS PECK STREET | PROJECT NO. 2190730 |
| | | | | | | | SHEET NO. 11 OF 28 |

| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 618 | 635953.380 | 12622979.730 | 626.73 |
| 619 | 634370.058 | 12622954.450 | 627.26 |
| 627 | 635952.704 | 12622845.970 | 627.52 |
| 628 | 633919.884 | 12623062.260 | 627.86 |
| 629 | 634126.993 | 12622943.910 | 627.65 |



- TOPOGRAPHY TEXT NOTE**
- TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.
- PROPOSED PAVEMENT LEGEND**
- PROPOSED DRIVEWAY, NONREINFC CONC, 6 INCH;
 - SIDEWALK RAMP, CONC, 6 INCH OR SIDEWALK, CONC, 4/6 INCH
- NOTES: PROPOSED PAVEMENT ON STREET & INTERSECTIONS NOT SHADED FOR CLARITY.
- SOIL EROSION CONTROL LEGEND**
- PROPOSED EROSION CONTROL INLET PROTECTION FABRIC DROP



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM: STATE PLANE GRID
 CONVERSION: NAD 83 TO NAD 2011
 HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NAVD 83
 UNITS: INTERNATIONAL FEET
 PROJECT COMPOUND SCALE FACTOR (PCS) = 0.99992467704
 GRIDNO. 5511 WAVE = GRID 0511A-W-2-25F

NO. REVISIONS BY DATE

| | | |
|---|----------|--------|
| 1 | DATE | BY |
| 1 | MAR. '20 | J.J.S. |
| 2 | MAR. '20 | M.R.H. |

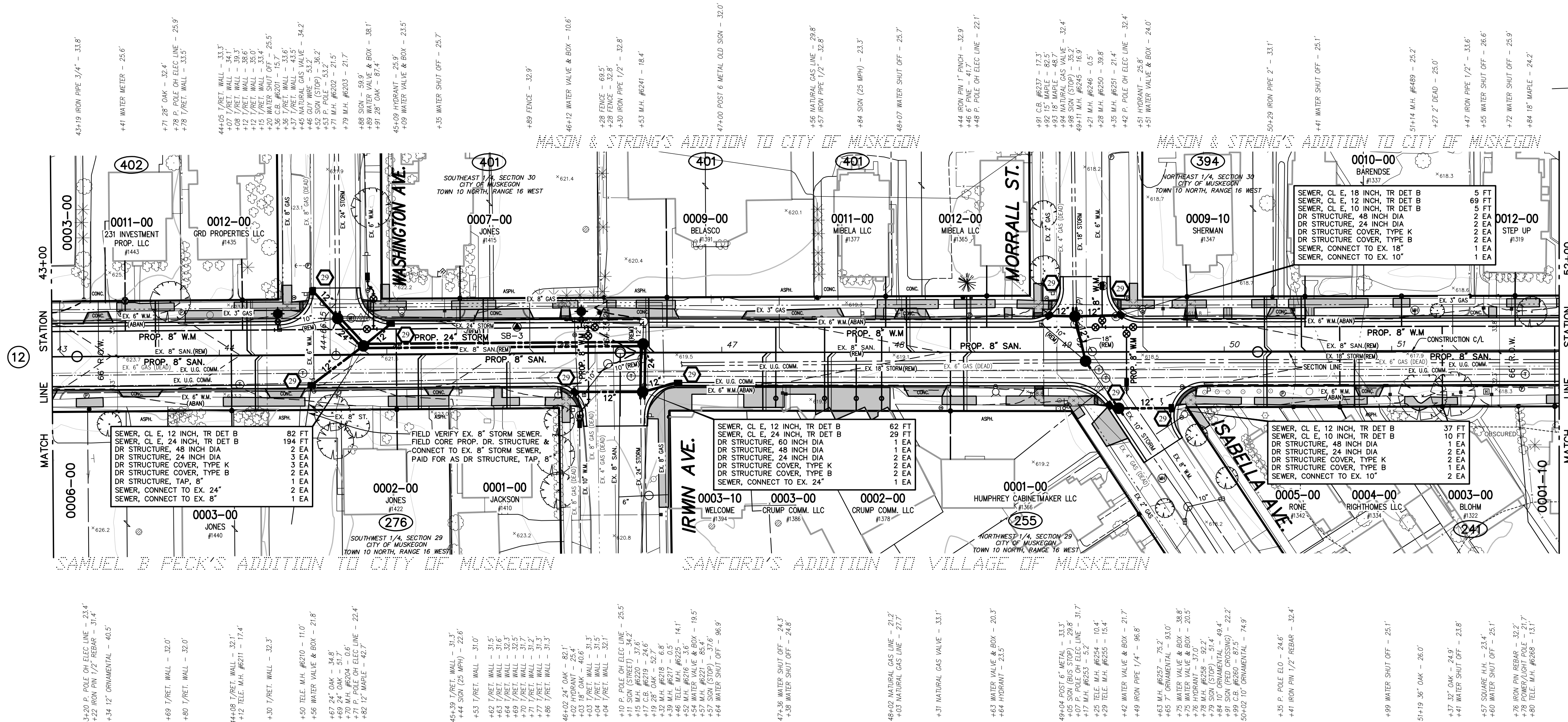
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
PECK STREET

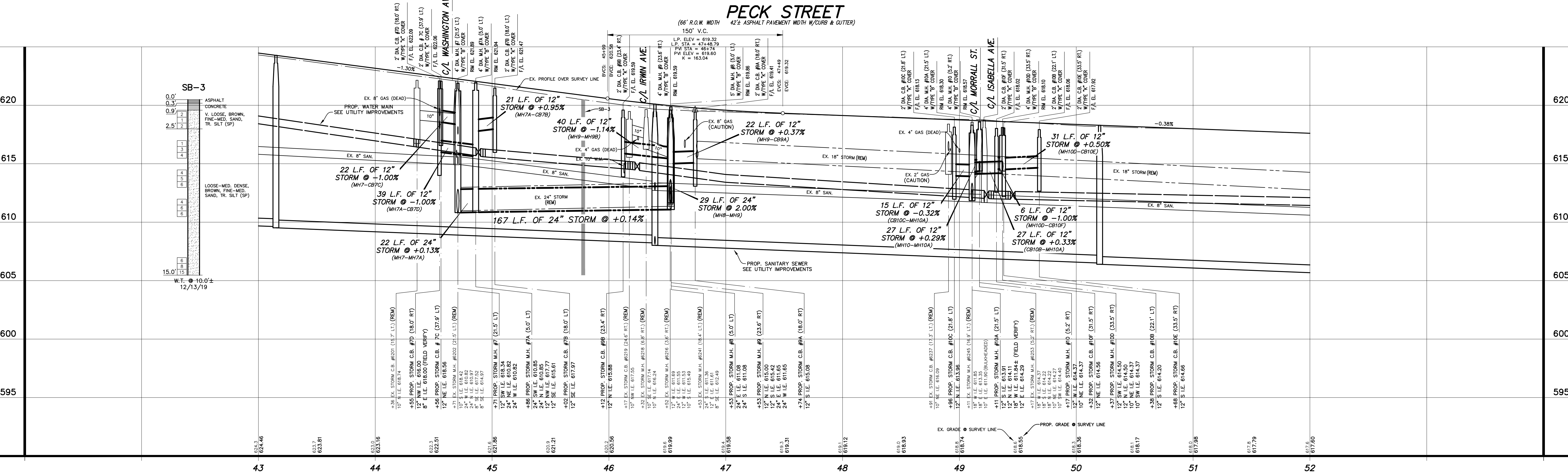
PROJECT NO. 2190730
SHEET NO. 12 OF 28

B.M. EL. 622.59
 PECK STREET & WASHINGTON AVENUE,
 60' ± N & 50' ± W OF C/L "X" TOP OF
 FIRST STEP OF CONCRETE PORCH
 HOUSE #1415

| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|------------|-------------|-----------|
| 422 | 123491.400 | 1262297.800 | 621.58 |
| 623 | 63494.818 | 1262297.950 | 619.63 |
| 624 | 63519.808 | 1262306.900 | 618.44 |



- TOPOGRAPHY TEXT NOTE**
- TOPOGRAPHY TEXT STATIONS AND OFFSETS
 BASED ON SECTION LINE WHICH IS INDEPENDENT
 OF CONSTRUCTION CENTERLINE. TOPOGRAPHY
 TEXT SHOWN FOR INFORMATION ONLY. SEE
 REMOVAL PLANS FOR ACTION ITEMS.
- PROPOSED
 PAVEMENT LEGEND**
- PROPOSED DRIVEWAY,
 NONREINFORCED CONC, 6 INCH;
 SIDEWALK RAMP, CONC, 6 INCH
 OR SIDEWALK, CONC, 4/6 INCH
- NOTES: PROPOSED PAVEMENT ON
 STREET & INTERSECTIONS
 NOT SHADED FOR CLARITY.
- SOIL EROSION
 CONTROL LEGEND**
- PROPOSED EROSION CONTROL
 INLET PROTECTION FABRIC DROP

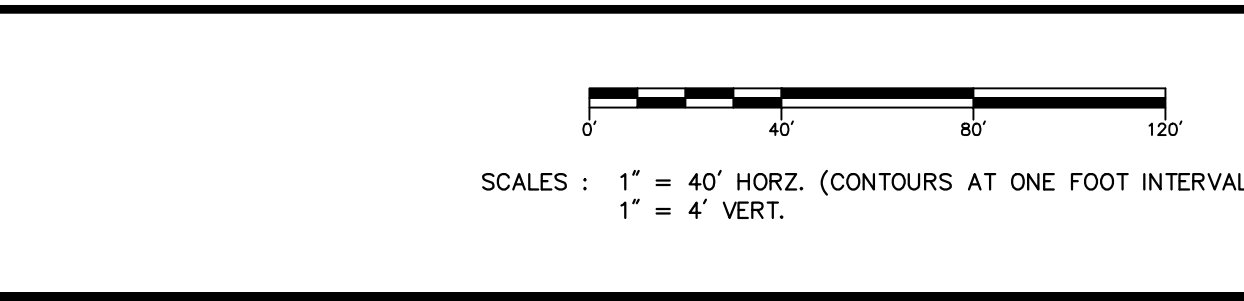


811
 CALL BEFORE YOU DIG

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL
 MEASUREMENTS OR AVAILABLE RECORDS. THEY
 SHOULD NOT BE INTERPRETED TO BE EXACT
 LOCATIONS NOR SHOULD IT BE ASSUMED THAT
 THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION

COORDINATE SYSTEM: STATE PLANE GRID
 ZONE: MICHIGAN SOUTH 2113
 ELLIPSOID: NAD 83
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 83
 SOURCE: 5608
 UNITS: INTERNATIONAL FEET
 PROJECT COMPILED SCALE FACTOR (PCSF) = 0.99992467704
 GRIDNOD 5615616 = GRID OFFSET 2.7525'



| NO. | REVISIONS | BY | DATE | DRAWN |
|-----|-----------|----|----------|--------|
| | | | | J.J.S. |
| | | | MAR. '20 | |
| | | | | M.R.H. |
| | | | MAR. '20 | |

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CITY OF MUSKOGON
 MUSKOGON COUNTY, MICHIGAN

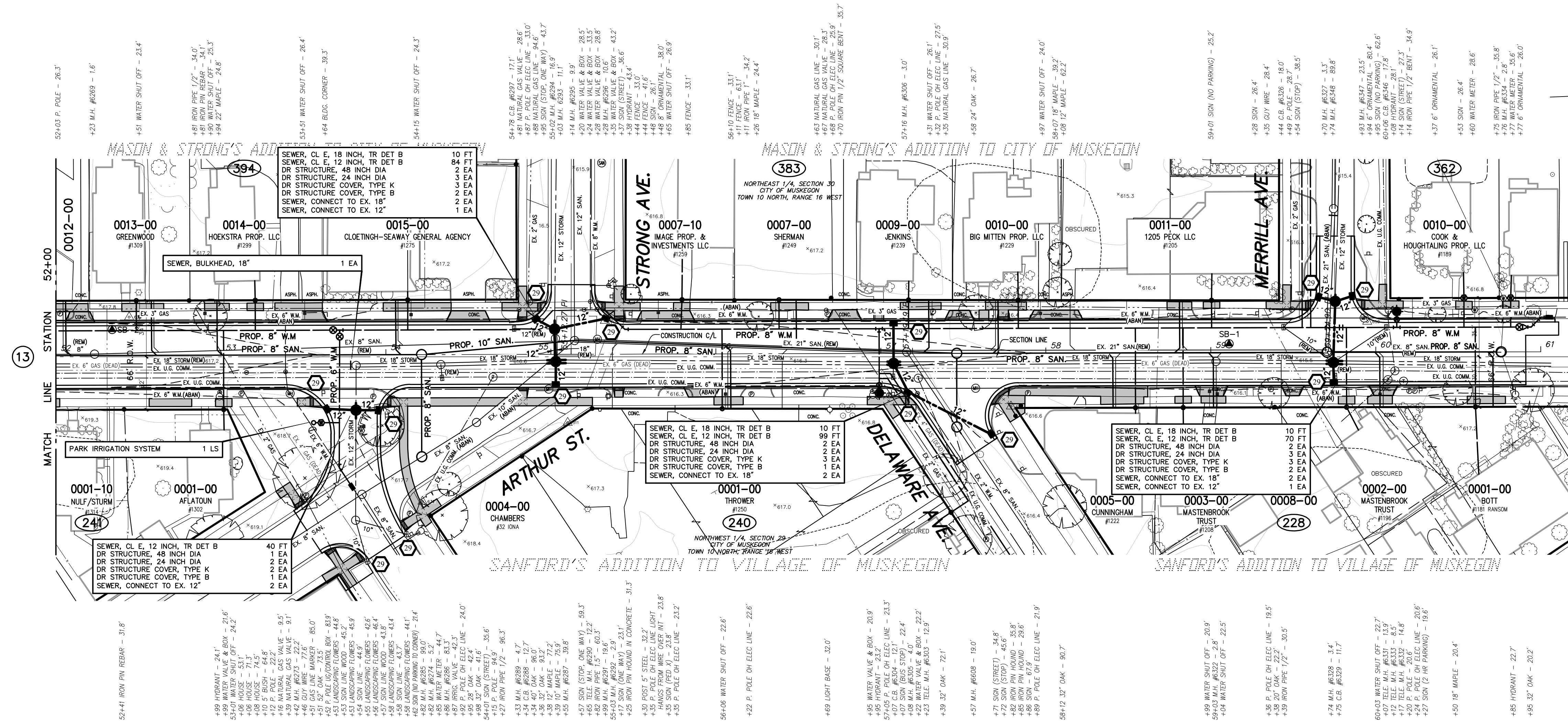
STREET IMPROVEMENTS
 PECK STREET

PROJECT NO.
 2190730

SHEET NO.
 13 OF 28

B.M. EL. 617.96
 PECK STREET & STRONG AVENUE, 20'± N
 & 40'± W OF C/L 'X', HYDRANT FLANGE
 BOLT UNDER 'E' IN E.W.

| POINT NO. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 311 | 635803.802 | 12623070.150 | 616.96 |
| 423 | 635808.914 | 12623009.400 | 616.14 |
| 630 | 636072.622 | 12623071.420 | 616.30 |
| 631 | 635540.886 | 12622995.260 | 617.53 |
| 632 | 635713.965 | 12623114.270 | 618.23 |
| 650 | 636290.572 | 12623029.010 | 615.30 |

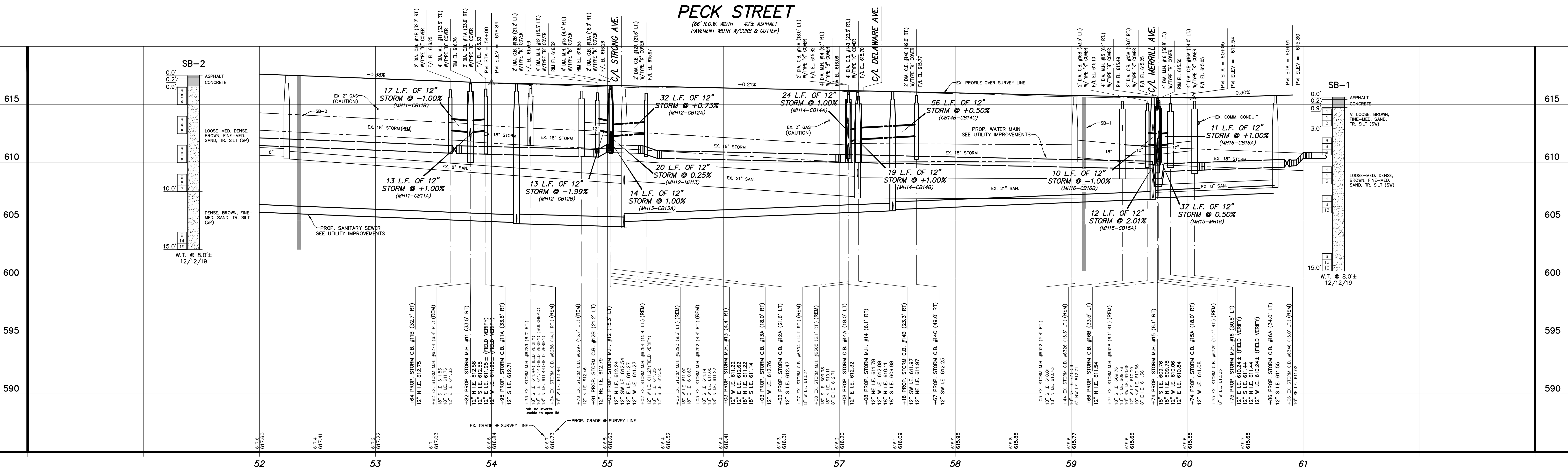


TOPOGRAPHY TEXT NOTE
 TOPOGRAPHY TEXT STATIONS AND OFFSETS
 BASED ON SECTION LINE WHICH IS INDEPENDENT
 OF CONSTRUCTION CENTERLINE. TOPOGRAPHY
 TEXT SHOWN FOR INFORMATION ONLY. SEE
 REMOVAL PLANS FOR ACTION ITEMS.

**PROPOSED
 PAVEMENT LEGEND**
 PROPOSED DRIVEWAY,
 NONFREM CONC, 6 INCH;
 SIDEWALK RAMP, CONC, 6 INCH
 OR SIDEWALK, CONC, 4/6 INCH

NOTES: PROPOSED PAVEMENT ON
 STREET & INTERSECTIONS
 NOT SHADED FOR CLARITY.

**SOIL EROSION
 CONTROL LEGEND**
 PROPOSED EROSION CONTROL
 INLET PROTECTION FABRIC DROP



| | | | | | | | | | |
|--|--|---|--|---|-----|-----------|--------|----------|--------|
| | | UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA. | PROJECT DATUM INFORMATION COORDINATE SYSTEM: STATE PLANE GRID ZONE: MICHIGAN SOUTH 2513 ELLIPSOID: NAD 83 HORIZONTAL DATUM: GRS 80 VERTICAL DATUM: NAVD 83 SOURCE: GEOID UNITS: INTERNATIONAL FEET PROJECT COMPOUND SCALE FACTOR (PCSF) = 0.99992467704 GRIDNO. 2513N12E - GRID 6016N22E | SCALES: 1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS) 1" = 4' VERT. | NO. | REVISIONS | BY | DATE | DRAWN |
| | | | | | 1 | 1 | J.J.S. | MAR. '20 | M.R.H. |

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CITY OF MUSKOGON
 MUSKOGON COUNTY, MICHIGAN

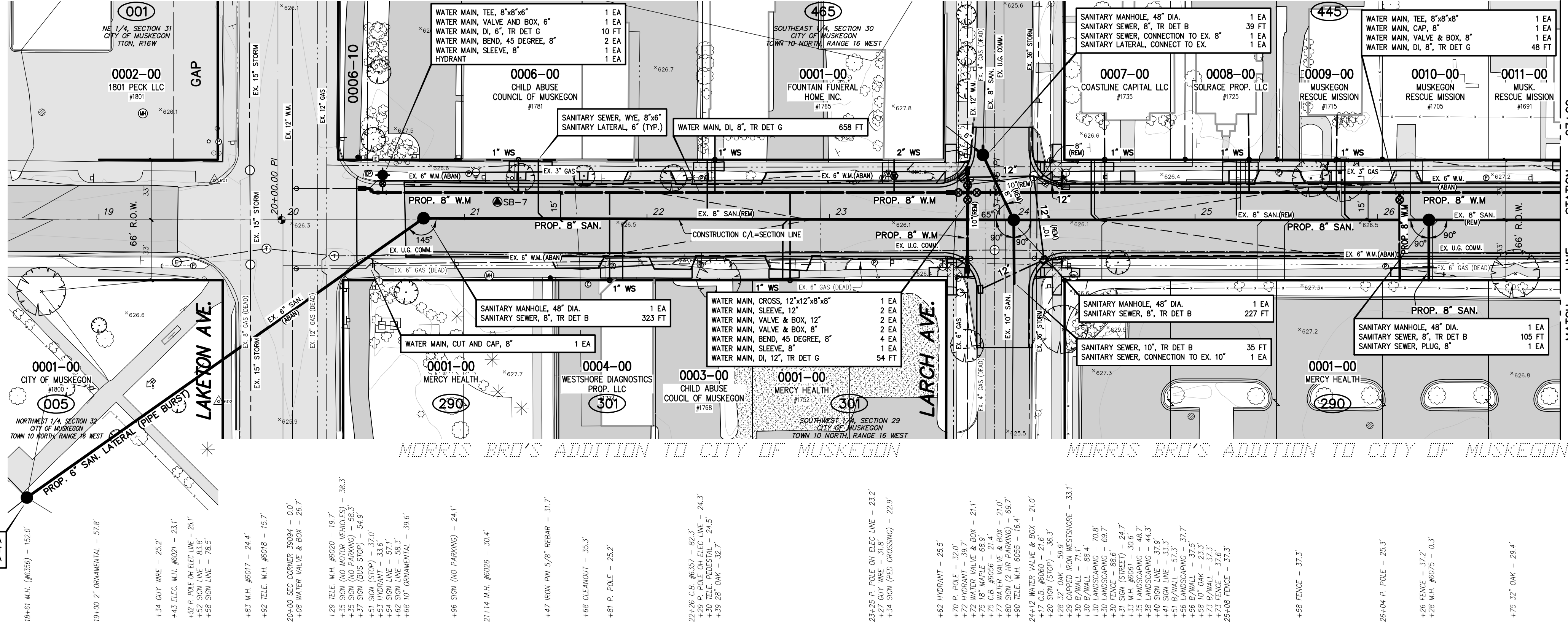
STREET IMPROVEMENTS
 PECK STREET

PROJECT NO.
 2190730

SHEET NO.
 14 OF 28

B.M. EL. 628.09
 PECK STREET & LAKETON AVENUE, 75'± S
 & 90'± E OF C/L "X", NW CORNER OF
 TOP OF NORTHERLY CONCRETE PLANTER

| POINT NO. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 601 | 632261.461 | 12622892.800 | 626.47 |
| 602 | 632289.723 | 12623033.890 | 626.63 |
| 604 | 632517.190 | 12622935.360 | 626.71 |
| 605 | 632716.536 | 12622940.610 | 625.80 |



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS
 BASED ON SECTION LINE WHICH IS INDEPENDENT
 OF CONSTRUCTION CENTERLINE. TOPOGRAPHY
 TEXT SHOWN FOR INFORMATION ONLY. SEE
 REMOVAL PLANS FOR ACTION ITEMS.

**WATER SERVICE
 TOTALS THIS SHEET**

| | |
|--|--------|
| WATER SERVICE, CORPORATION STOP, 1 INCH | 7 EA |
| WATER SERVICE, CURB STOP AND BOX, 1 INCH | 7 EA |
| WATER SERVICE, 1 INCH | 290 LF |
| WATER SERVICE, CORPORATION STOP, 2 INCH | 1 EA |
| WATER SERVICE, CURB STOP AND BOX, 2 INCH | 1 EA |
| WATER SERVICE, 2 INCH | 20 LF |
| WATER SERVICE, METER PIT | 1 EA |
| WATER SERVICE RESTORATION, PRIVATE | 4 EA |

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
- USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3'-0" FROM FINISHED GRADE. COST SHALL BE INCLUDED IN THE HYDRANT PAY ITEM.
- ALL HYDRANTS SHALL BE RESTRAINED TO THE TEE.

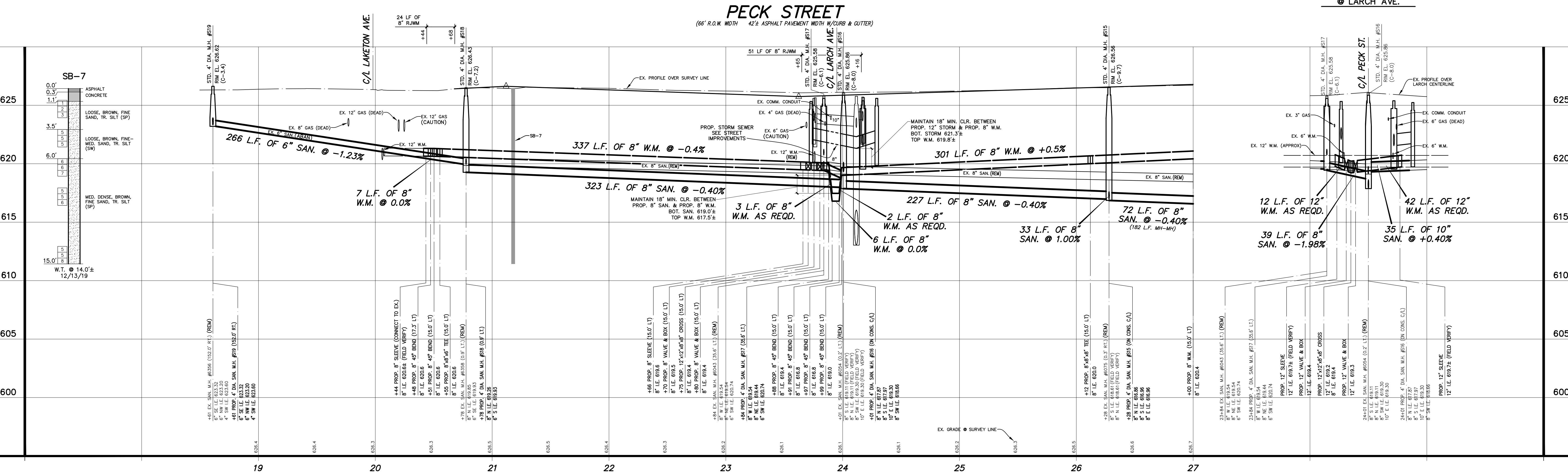
WATER SERVICE CONSTRUCTION NOTES

- WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
- WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. WATER SERVICES TO BE REPLACED TO 18 INCHES INSIDE THE RESIDENCES IF THE METER IS LOCATED OUTSIDE. LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER SHALL BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP SHALL BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT ENTRY INTO THE RESIDENCE.
- IF A METER PIT IS OUTSIDE THE RESIDENCE THEN THE METER PIT MUST BE REPLACED AT THE SAME LOCATION.
- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY SEWER CONSTRUCTION NOTES

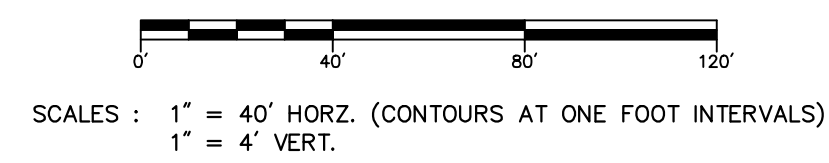
- EXISTING SANITARY SEWER 12" OR LESS SHALL BE REMOVED COMPLETELY WITHIN THE PROJECT LIMITS.
- ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYE.
- SANITARY SEWER LATERALS SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

**PROP. UTILITY CONNECTIONS
 @ LARCH AVE.**



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION
 COORDINATE SYSTEM: STATE PLANE GRID
 ZONE: 16N
 DATUM: NAD 83
 ELEVATION DATUM: NAVD 83 (2011)
 VERTICAL DATUM: NAVD 83
 UNIT: FEET
 PROJECT COMPILED SCALE FACTOR (PCSF) = 0.99992467704
 GRIDLINE DISTANCE: 40' (DISTANCE) 20' (PCSF)



| NO. | REVISIONS | BY | DATE | DRAWN |
|-----|-----------|----|------|--------|
| | | | | J.J.S. |
| | | | | M.R.H. |
| | | | | M.R.H. |



CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 UTILITY IMPROVEMENTS
 PECK STREET

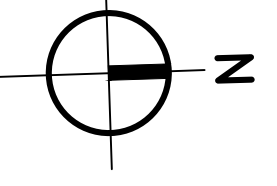
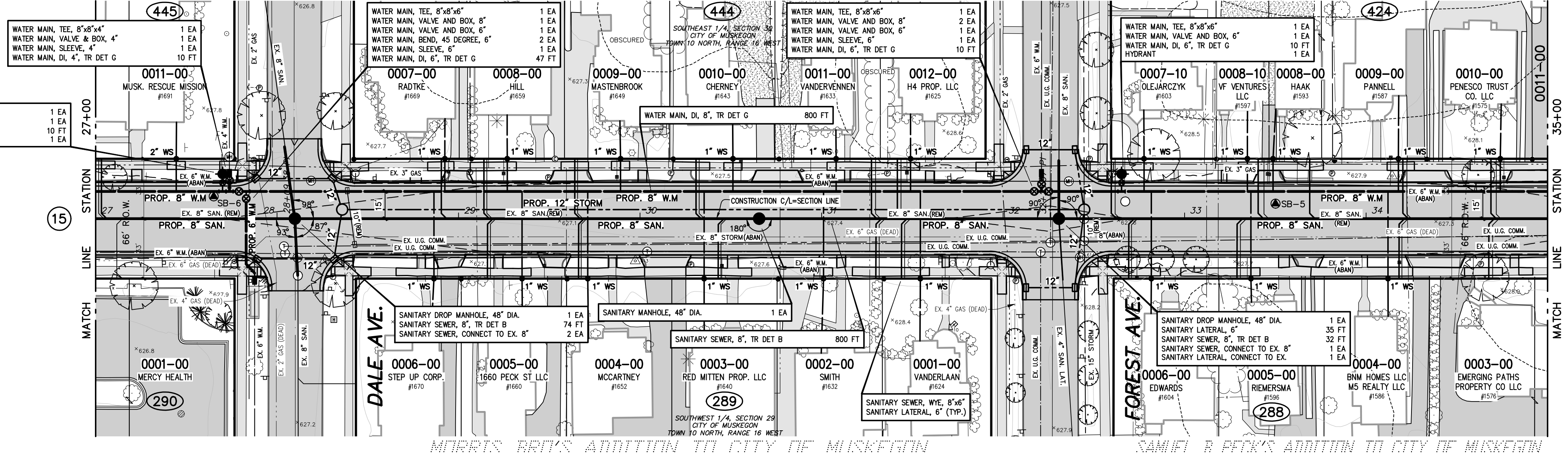
PROJECT NO.
 2190730
 SHEET NO.
 15 OF 28

B.M. EL. 627.39
PECK STREET & DALE AVENUE, 60± S & 40± E OF C/L 'X', NW CORNER OF CONCRETE BUS STOP

B.M. EL. 629.02
PECK STREET & FOREST AVENUE, 60± S & 60± E OF C/L 'X', TOP OF BOTTOM STEP @ HOUSE #1624

| POINT NO. | NORTHING | EASTING | ELEVATION |
|-----------|-----------|-------------|-----------|
| 606 | 63322.519 | 1262296.190 | 626.68 |
| 613 | 63329.519 | 1262296.400 | 627.39 |
| 614 | 63359.365 | 1262297.330 | 627.57 |
| 617 | 63371.816 | 1262298.870 | 628.00 |

WATER MAIN, TEE, 8" x 8" x 6"
WATER MAIN, VALVE AND BOX, 4"
WATER MAIN, SLEEVE, 4"
WATER MAIN, DI, 4", TR DET G



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

| WATER SERVICE TOTALS THIS SHEET | |
|--|---------|
| WATER SERVICE, CORPORATION STOP, 1 INCH | 20 EA |
| WATER SERVICE, CURB STOP AND BOX, 1 INCH | 20 EA |
| WATER SERVICE, 1 INCH | 1190 LF |
| WATER SERVICE, CORPORATION STOP, 2 INCH | 1 EA |
| WATER SERVICE, CURB STOP AND BOX, 2 INCH | 1 EA |
| WATER SERVICE, 2 INCH | 40 LF |
| WATER SERVICE RESTORATION, PRIVATE | 21 EA |

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE, AND 10" HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SERVICES.
- USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3" +/- FROM FINISHED GRADE. COST SHALL BE INCLUDED IN THE HYDRANT PAY ITEM.
- ALL HYDRANTS SHALL BE RESTRAINED TO THE TEE.

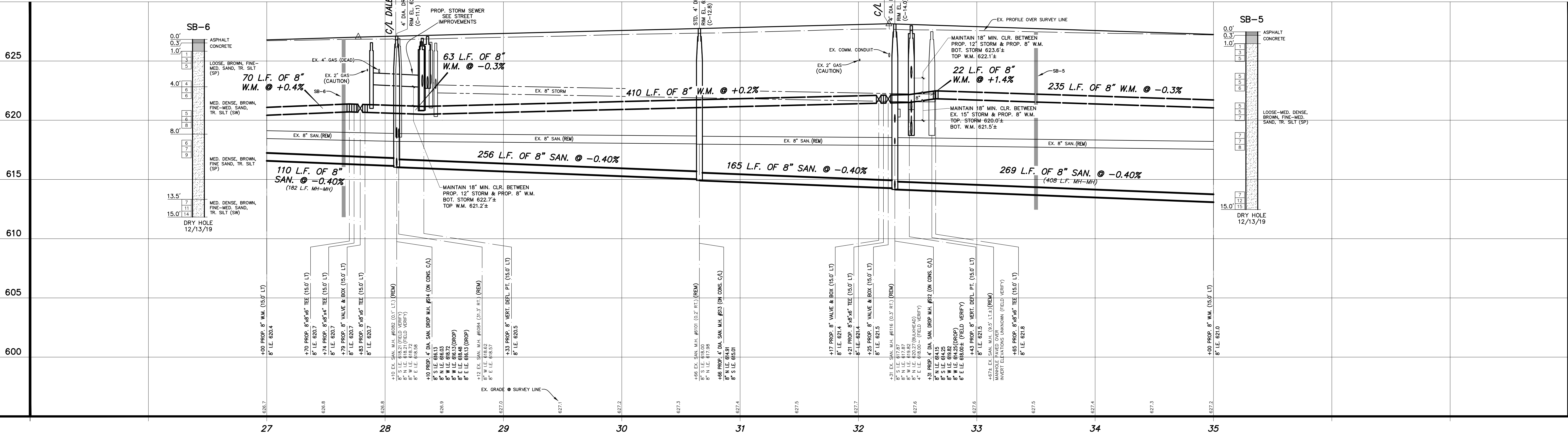
WATER SERVICE CONSTRUCTION NOTES

- WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
- WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. WATER SERVICES TO BE REPLACED TO 18 INCHES INSIDE THE RESIDENCES IF THE METER IS LOCATED OUTSIDE. LOCATION OF ENTRY INTO THE RESIDENCE AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER SHALL BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP SHALL BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT ENTRY INTO THE RESIDENCE.
- IF A METER PIT IS OUTSIDE THE RESIDENCE THEN THE METER PIT MUST BE REPLACED AT THE SAME LOCATION.
- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY SEWER CONSTRUCTION NOTES

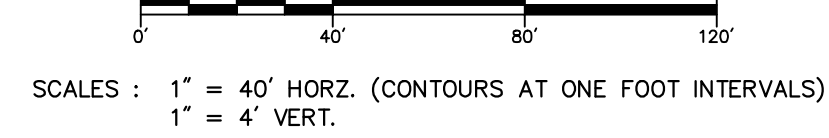
- EXISTING SANITARY SEWER 12" OR LESS SHALL BE REMOVED COMPLETELY WITHIN THE PROJECT LIMITS.
- ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
- SANITARY SEWER LATERALS SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

PECK STREET
(66' R.O.W. WIDTH 42± ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION
COORDINATE SYSTEM: STATE PLANE GRID
ELEVATION DATUM: MEAN SEA LEVEL 1913
HORIZONTAL DATUM: GRS 80
VERTICAL DATUM: NAVD 83 (2011)
SCRS: 500
UNITS: INTERNATIONAL FEET
PROJECT COMPILED SCALE FACTOR (PCSF) = 0.99992467704
ORIGNO: 05131516 - GRID: 05124627252F



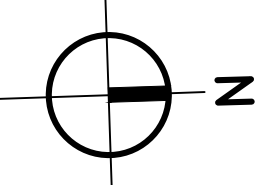
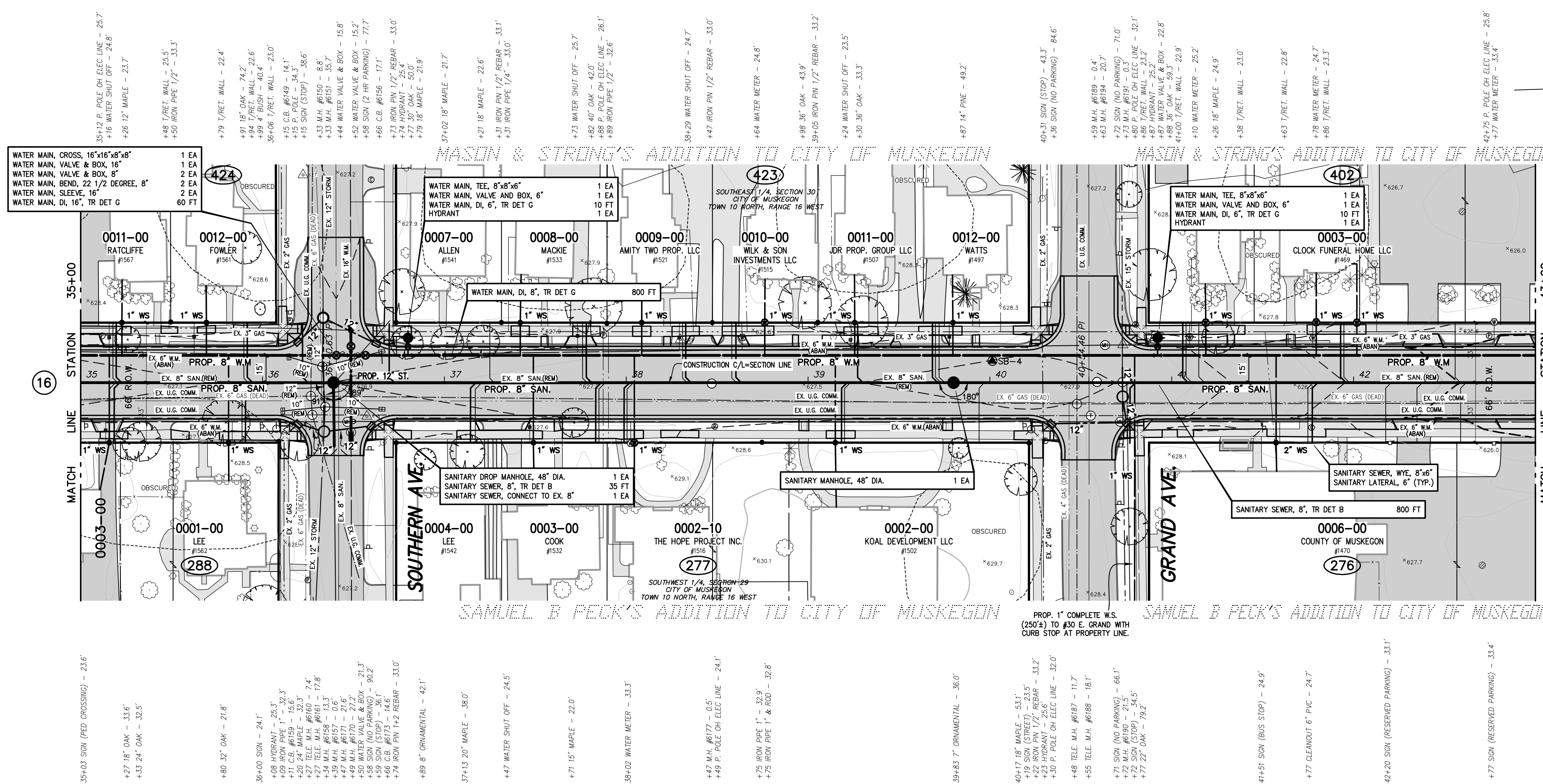
| NO. | REVISIONS | BY | DATE |
|-----|-----------|--------|------|
| | | J.J.S. | |
| | | M.R.H. | |

Prein & Newhof
Engineers-Surveyors-Environmental-Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
PECK STREET

PROJECT NO.
2190730
SHEET NO.
16 OF 28

| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 618 | 635953.380 | 12622979.730 | 626.73 |
| 619 | 634370.058 | 12622954.450 | 627.26 |
| 627 | 635952.704 | 12622845.970 | 627.52 |
| 628 | 633919.884 | 12623062.260 | 627.86 |
| 629 | 634126.993 | 12622943.910 | 627.65 |



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

| WATER SERVICE TOTALS THIS SHEET | |
|--|---------|
| WATER SERVICE, CORPORATION STOP, 1 INCH | 17 EA |
| WATER SERVICE, CURB STOP AND BOX, 1 INCH | 12 EA |
| WATER SERVICE, 1 INCH | 1060 LF |
| WATER SERVICE, CORPORATION STOP, 2 INCH | 1 EA |
| WATER SERVICE, CURB STOP AND BOX, 2 INCH | 1 EA |
| WATER SERVICE, 2 INCH | 65 LF |
| WATER SERVICE, METER PIT | 5 EA |
| WATER SERVICE RESTORATION, PRIVATE | 17 EA |

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE, AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
- USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3'-0" FROM FINISHED GRADE. COST SHALL BE INCLUDED IN THE HYDRANT PAY ITEM.
- ALL HYDRANTS SHALL BE RESTRAINED TO THE TEE.

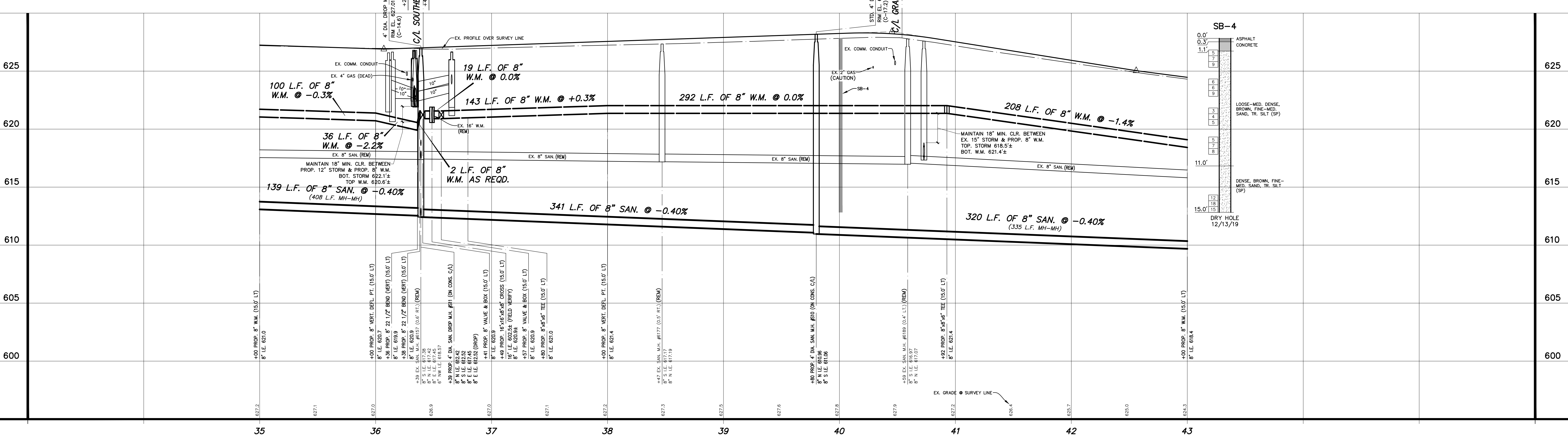
WATER SERVICE CONSTRUCTION NOTES

- WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
- WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. WATER SERVICES TO BE REPLACED TO 18 INCHES INSIDE THE RESIDENCES IF THE METER IS LOCATED OUTSIDE. LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER SHALL BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP SHALL BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT ENTRY INTO THE RESIDENCE.
- IF A METER PIT IS OUTSIDE THE RESIDENCE THEN THE METER PIT MUST BE REPLACED AT THE SAME LOCATION.
- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY SEWER CONSTRUCTION NOTES

- EXISTING SANITARY SEWER 12" OR LESS SHALL BE REMOVED COMPLETELY WITHIN THE PROJECT LIMITS.
- ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
- SANITARY SEWER LATERALS SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

PECK STREET
(66' R.O.W. WIDTH 42± ASPHALT PAVEMENT WIDTH W/CURB & GUTTER)

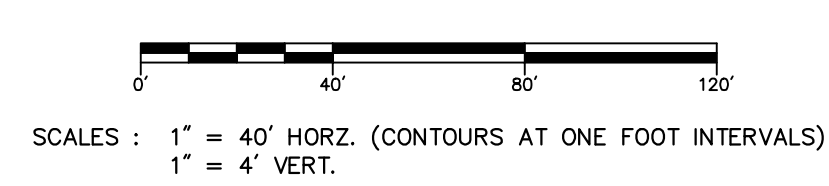


T:\CADD\PROJECTS\2190730\MUSKEGON\PECK STREET\PECK STREET\PECK STREET - 050111 - May 20 2020 - 11:04am - Prein&Newhof



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

PROJECT DATUM INFORMATION
 COORDINATE SYSTEM: STATE PLANE GRID
 ZONE: WESTERN ZONE 18N
 ELLIPSOID: NAD 83
 HORIZONTAL DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 83
 GROUND: NAVD 83
 UNITS: INTERNATIONAL FEET
 PROJECT COMBINED SCALE FACTOR (PCSF) = 0.99992467704
 GROUND CONTROL POINTS: GCP01, GCP02, GCP03



| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
| | | | |

DRAWN: J.J.S.
 DATE: MAR. '20
 CHECKED: M.R.H.
 DATE: MAR. '20

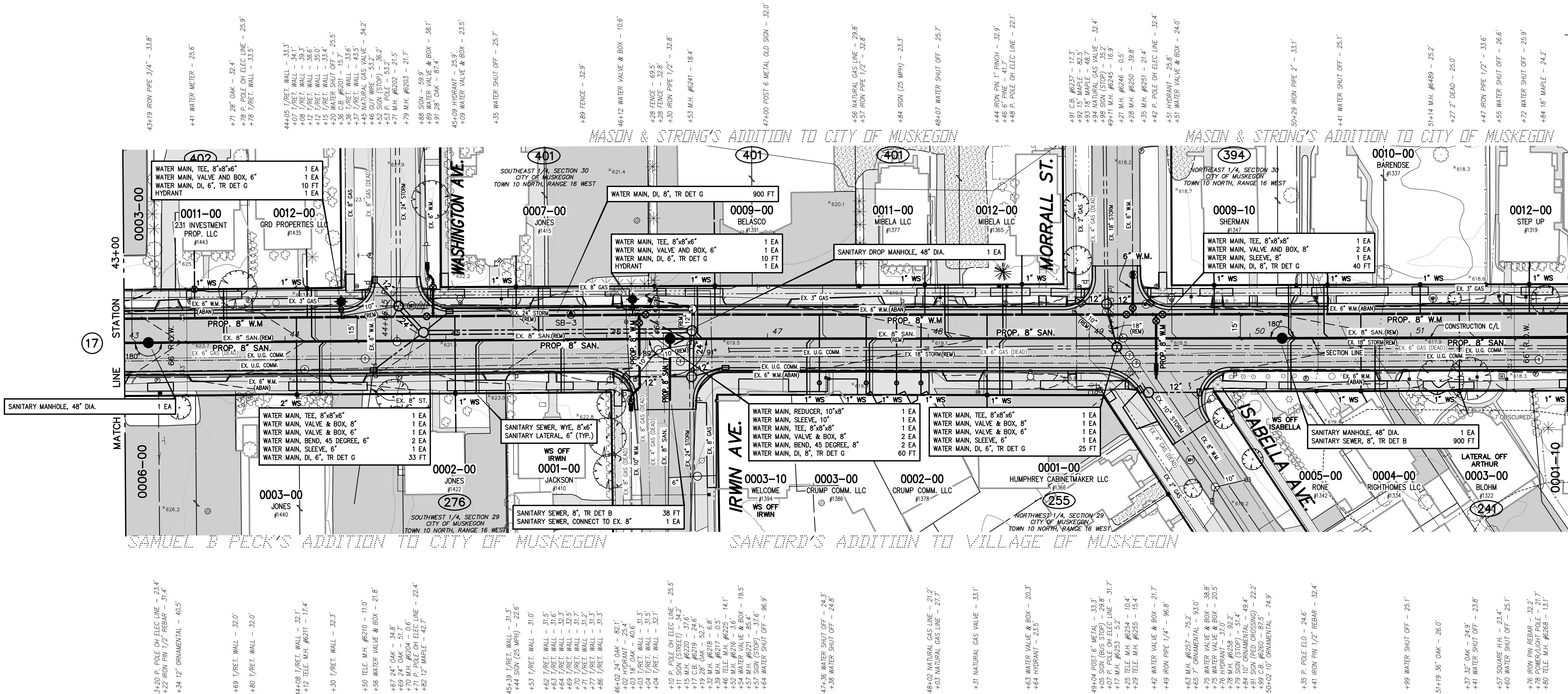


CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 UTILITY IMPROVEMENTS
 PECK STREET

PROJECT NO.
 2190730
 SHEET NO.
 17 OF 28

B.M. EL. 622.59
 PECK STREET & WASHINGTON AVENUE,
 60± N & 50± W OF C/L X, TOP OF
 FIRST STEP OF CONCRETE PORG
 HOUSE #1415

| POINT No. | NORTHING | EASTING | ELEVATION |
|-----------|------------|--------------|-----------|
| 422 | 123491.400 | 1262297.800 | 622.58 |
| 423 | 123491.818 | 1262297.950 | 619.63 |
| 424 | 635219.808 | 12623026.000 | 618.44 |



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

WATER SERVICE TOTALS THIS SHEET

| | |
|---|--------|
| WATER SERVICE CORPORATION STOP, 1 INCH | 19 EA |
| WATER SERVICE CURB STOP AND BOX, 1 INCH | 17 EA |
| WATER SERVICE, 1 INCH | 940 LF |
| WATER SERVICE CORPORATION STOP, 2 INCH | 1 EA |
| WATER SERVICE CURB STOP AND BOX, 2 INCH | 1 EA |
| WATER SERVICE, 2 INCH | 70 LF |
| WATER SERVICE METER PIT | 1 EA |
| WATER SERVICE RESTORATION, PRIVATE | 15 EA |

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10" HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
- USE LEADY EXTENSION OR VERTICAL BENDS ON HYDRANT HEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3'-0" FROM FINISHED GRADE. COST SHALL BE INCLUDED IN THE HYDRANT PAY ITEM.
- ALL HYDRANTS SHALL BE RESTRAINED TO THE TEE.

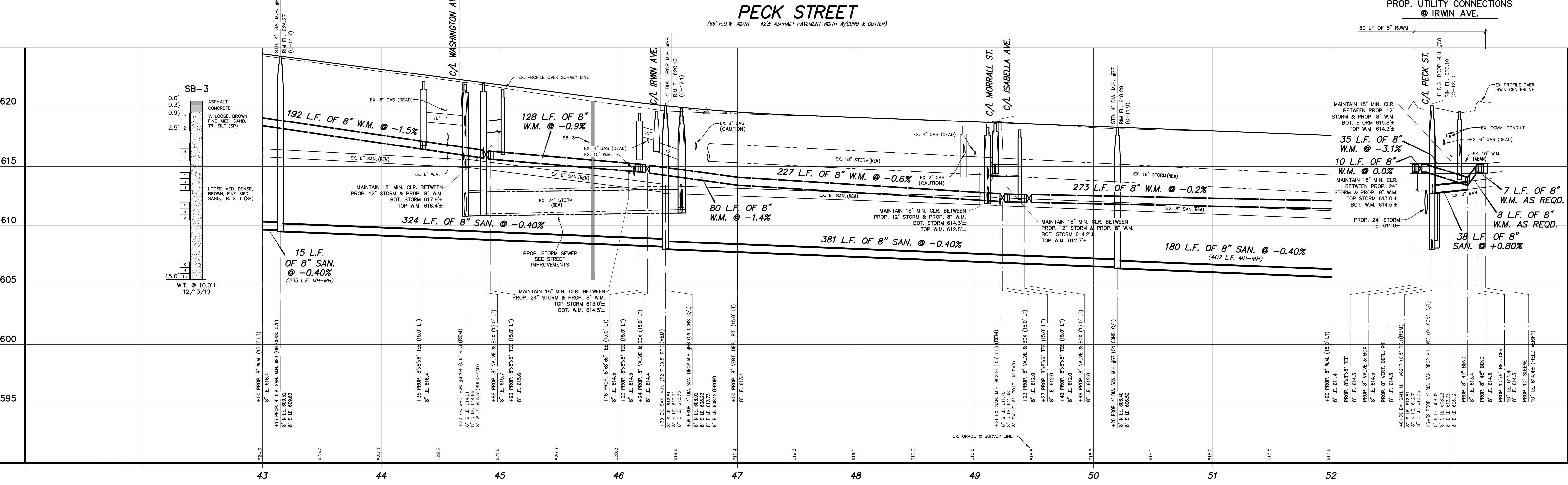
WATER SERVICE CONSTRUCTION NOTES

- WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO RELOCATION.
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- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY SEWER CONSTRUCTION NOTES

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- SANITARY SEWER LATERALS SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

PROP. UTILITY CONNECTIONS @ IRWIN AVE.



| NO. | REVISIONS | BY | DATE | DRAWN |
|-----|-----------|----|------|----------|
| | | | | J.J.S. |
| | | | | MAR. '20 |
| | | | | M.R.H. |
| | | | | MAR. '20 |

PROJECT DATUM INFORMATION
 COORDINATE SYSTEM: STATE PLANE GRID
 DATUM: MICHIGAN STATE GRID 2011
 HORIZONTAL DATUM: GRS 80 (2011)
 VERTICAL DATUM: NAVD 83
 SCALE: 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
 1" = 4' VERT.
 PROJECT COMPOUND SCALE FACTOR (PCS) = 0.99992467704
 GRIDLINE SPACING: 5' GRID DISTANCE: 25'

AIR-LAND SURVEYS
 811
 UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.
 Call them up, before you dig.

CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 UTILTY IMPROVEMENTS
 PECK STREET
 PROJECT NO. 2190730
 SHEET NO. 18 OF 28

Prein & Newhof
 Engineers • Surveyors • Environmental • Laboratory

B.M. EL. 617.96
PECK STREET & STRONG AVENUE, 20'± N
& 40'± W OF C/L 'X', HYDRANT FLANGE
BOLT UNDER 'E' IN E.A.W.

| POINT NO. | NORTHING | EASTING | ELEVATION |
|-----------|-------------|--------------|-----------|
| 311 | 435803.802 | 12623070.100 | 616.96 |
| 423 | 435808.914 | 12623009.400 | 616.14 |
| 630 | 4356072.622 | 12623071.420 | 616.30 |
| 631 | 4355440.886 | 12622995.260 | 617.53 |
| 632 | 435713.965 | 12623121.270 | 618.23 |
| 650 | 436290.572 | 12623020.010 | 615.30 |

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
- USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3'-6" FROM FINISHED GRADE. COST SHALL BE INCLUDED IN THE HYDRANT PAY ITEM.
- ALL HYDRANTS SHALL BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

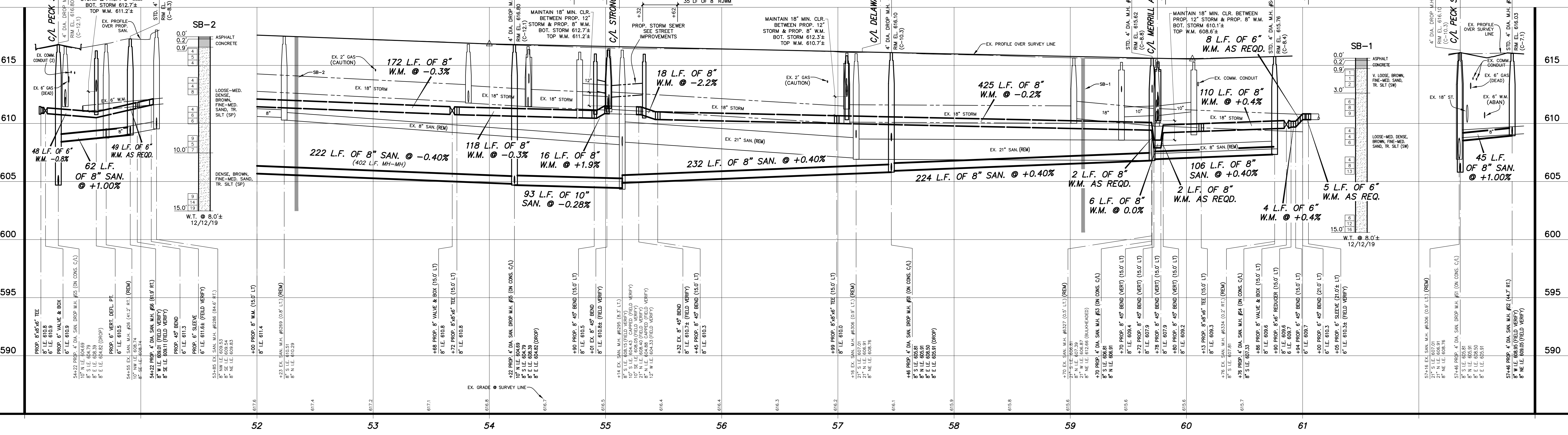
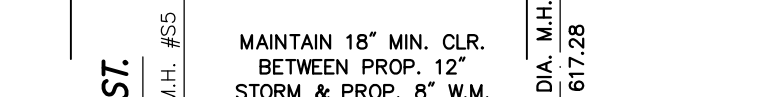
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- IF A METER PIT IS OUTSIDE THE RESIDENCE THEN THE METER PIT MUST BE REPLACED AT THE SAME LOCATION.
- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY SEWER CONSTRUCTION NOTES

- EXISTING SANITARY SEWER 12" OR LESS SHALL BE REMOVED COMPLETELY WITHIN THE PROJECT LIMITS.
- ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WELLS.
- SANITARY SEWER LATERALS SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

PROP. UTILITY CONNECTIONS @ ARTHUR ST.

97 LF OF 6" R.W.M.



PROJECT DATUM INFORMATION
COORDINATE SYSTEM: STATE PLANE GRID
ELEVATION DATUM: NAVD 83
VERTICAL DATUM: NAVD 83
UNITS: INTERNATIONAL FEET
PROJECT COMPILED SCALE FACTOR (PCSF) = 0.99992467704
GRIDNOD 031.WEA = GRID 031.WEA.ZIP

SCALES: 1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

| NO. | REVISIONS | BY | DATE |
|-----|----------------------|--------|----------|
| 1 | ISSUED FOR PERMIT | J.J.S. | MAR. '20 |
| 2 | REVISED PER COMMENTS | M.R.H. | MAR. '20 |

CITY OF MUSKOGON
MUSKOGON COUNTY, MICHIGAN
UTILITY IMPROVEMENTS
PECK STREET

PROJECT NO.
2190730
SHEET NO.
19 OF 28

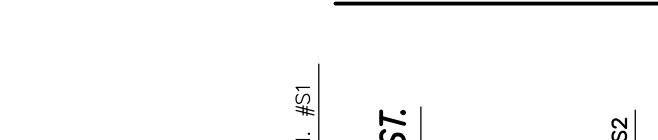
TOPOGRAPHY TEXT NOTE

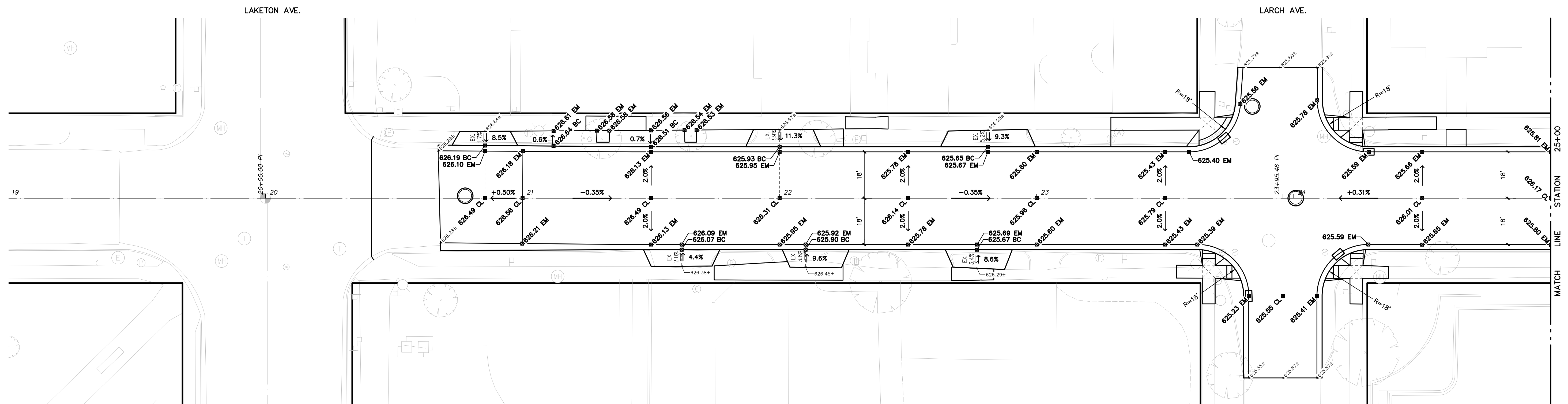
TOPOGRAPHY TEXT STATIONS AND OFFSETS BASED ON SECTION LINE WHICH IS INDEPENDENT OF CONSTRUCTION CENTERLINE. TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.

| WATER SERVICE TOTALS THIS SHEET | |
|--|---------|
| WATER SERVICE, CORPORATION STOP, 1 INCH | 21 EA |
| WATER SERVICE, CURB STOP AND BOX, 1 INCH | 1 EA |
| WATER SERVICE, 1 INCH | 1340 LF |
| WATER SERVICE, METER PIT | 3 EA |
| WATER SERVICE RESTORATION, PRIVATE | 15 EA |

| | |
|---------------------------------|-------|
| WATER MAIN, VALVE AND BOX, 8" | 1 EA |
| WATER MAIN, REDUCER, 8" X 6" | 1 EA |
| WATER MAIN, BEND, 45 DEGREE, 6" | 2 EA |
| WATER MAIN, SLEEVE, 6" | 1 EA |
| WATER MAIN, DI, 6", TR DET G | 17 FT |

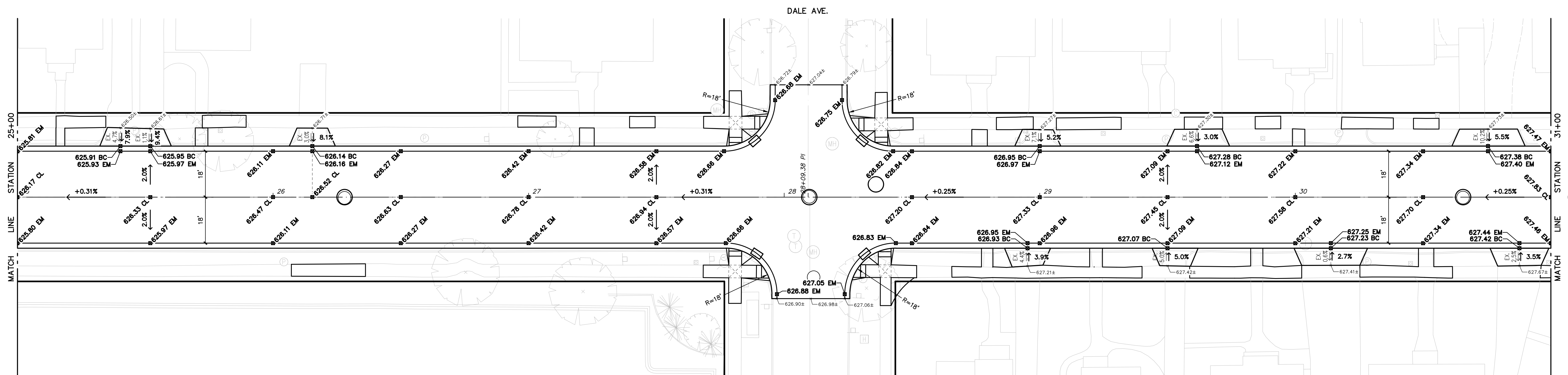
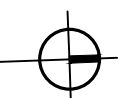
PROP. SAN. CONNECTION @ DELAWARE AVE.





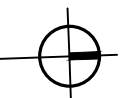
PECK STREET GRADING DETAILS

SCALE : 1" = 20'



PECK STREET GRADING DETAILS

SCALE : 1" = 20'



T:\CADD\PROJECTS\2019\2190730\MUSKEGON\PECK STREET IMP\PECK STREET IMP\2190730_GRA.DWG - SMITH - May, 28 2020 - 11:07am - Prokatek

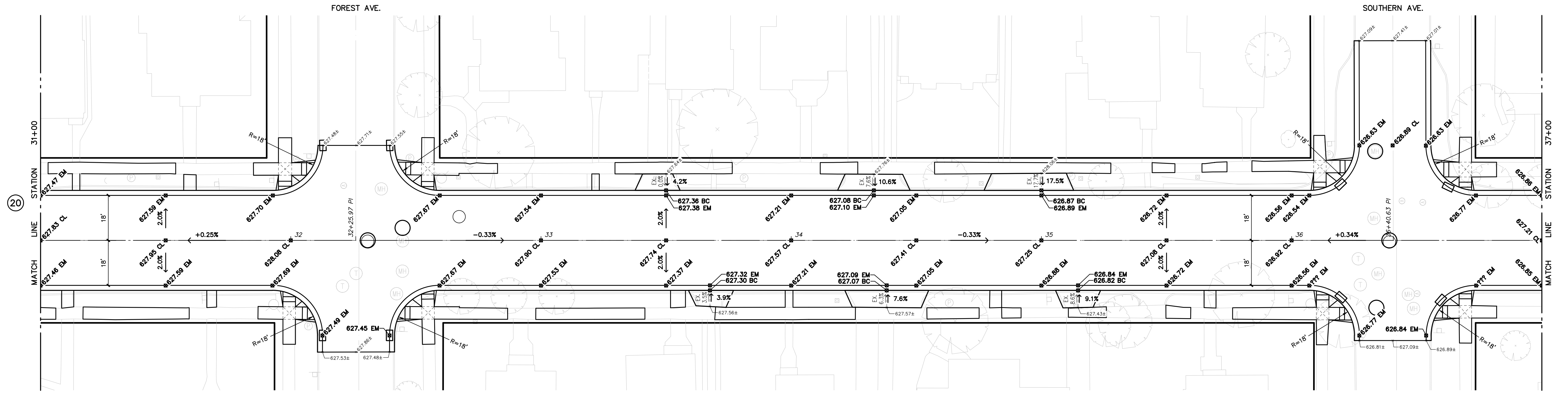
| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
| | | | |
| | | | |
| | | | |

DRAWN: J.J.S.
 DATE: MAR. '20
 CHECKED: M.R.H.
 DATE: MAR. '20



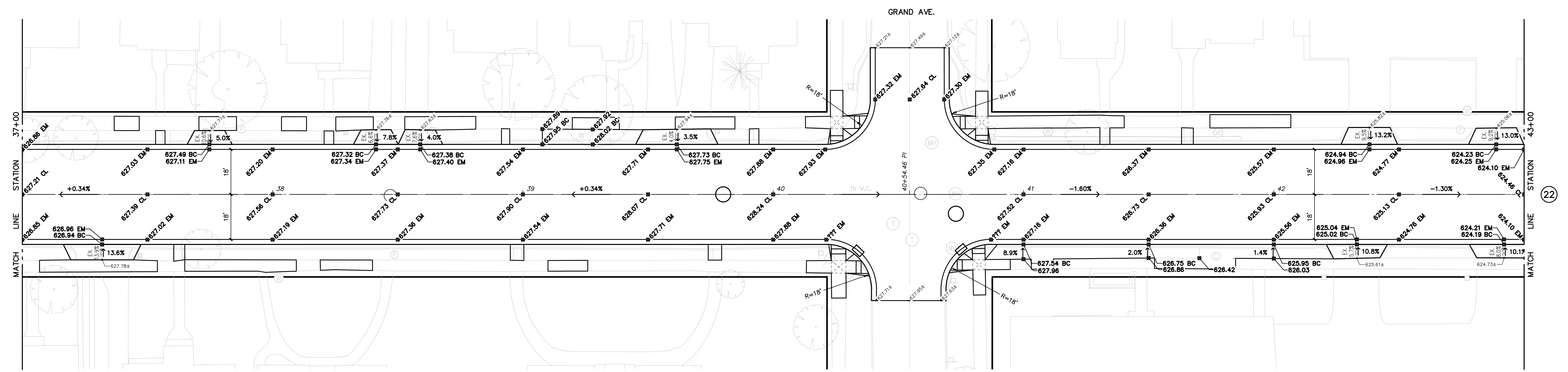
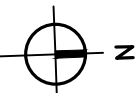
CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 GRADING DETAILS

PROJECT NO.
 2190730
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 20 OF 28



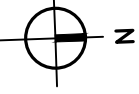
PECK STREET GRADING DETAILS

SCALE : 1" = 20'



PECK STREET GRADING DETAILS

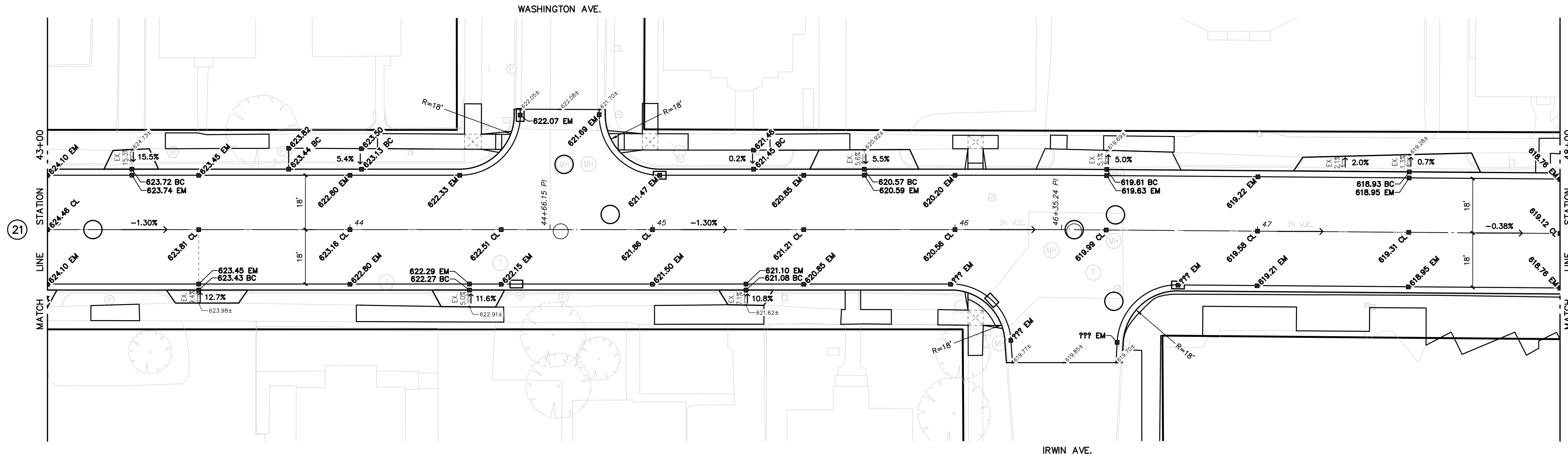
SCALE : 1" = 20'



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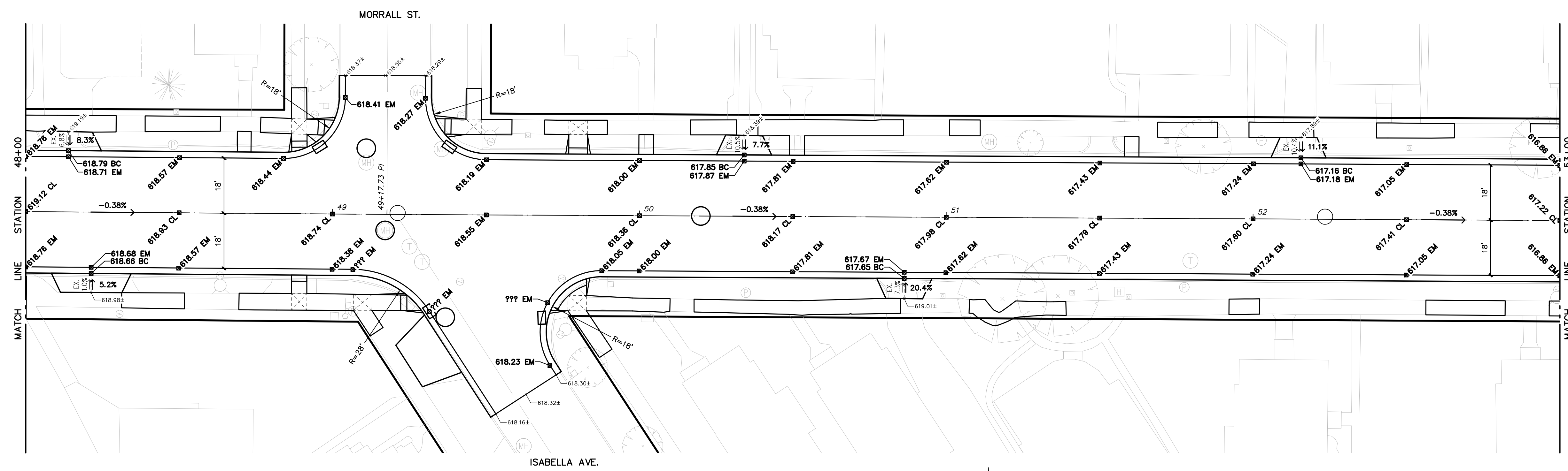
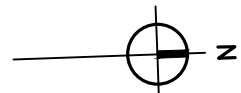
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| DRAWN J.J.S. DATE MAR. '20 CHECKED M.R.H. DATE MAR. '20 | | CITY OF MUSKEGON MUSKEGON COUNTY, MICHIGAN STREET IMPROVEMENTS GRADING DETAILS | PROJECT NO. 2190730 SHEET NO. 21 OF 28 |
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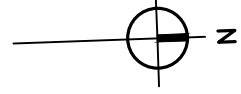
PECK STREET GRADING DETAILS

SCALE : 1" = 20'



PECK STREET GRADING DETAILS

SCALE : 1" = 20'



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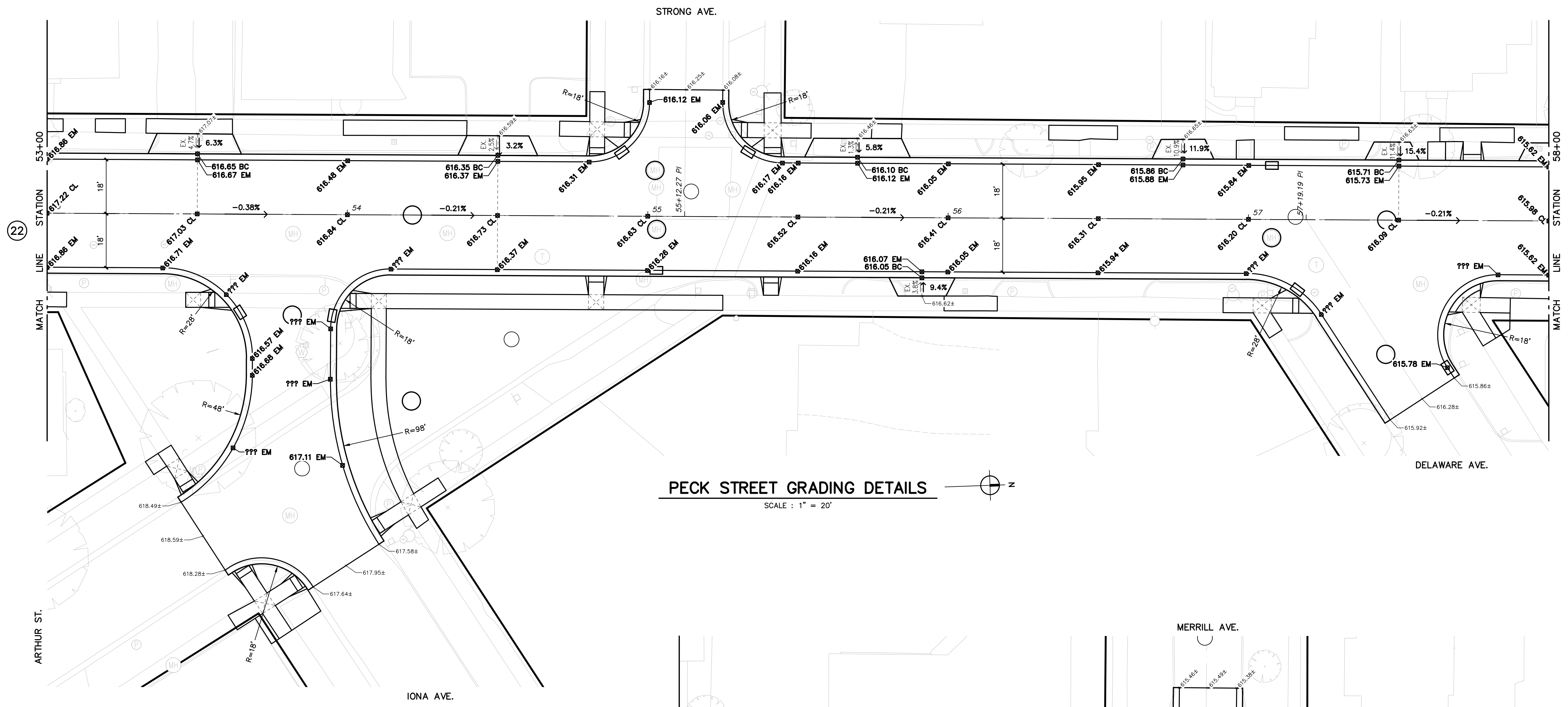
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DRAWN: J.J.S.
 DATE: MAR. '20
 CHECKED: M.R.H.
 DATE: MAR. '20

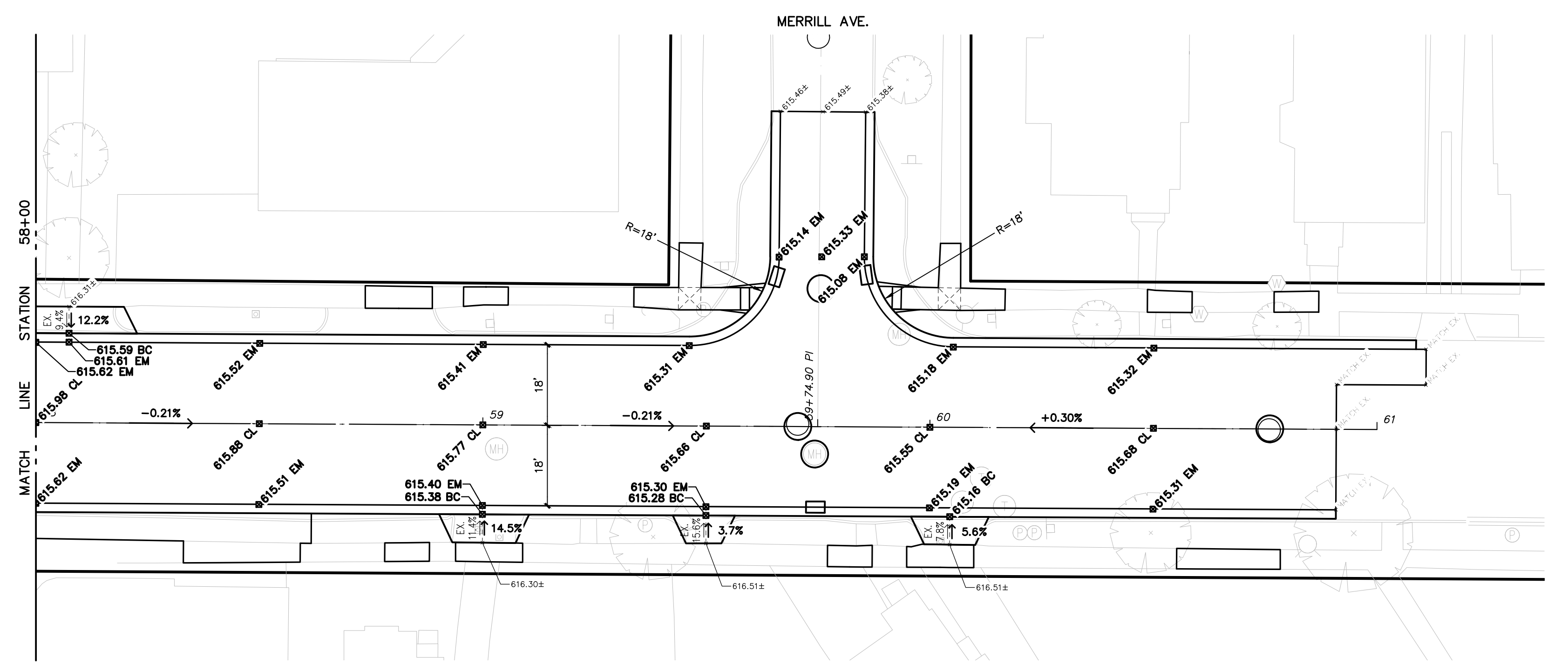


CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
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PECK STREET GRADING DETAILS
SCALE : 1" = 20'



PECK STREET GRADING DETAILS
SCALE : 1" = 20'

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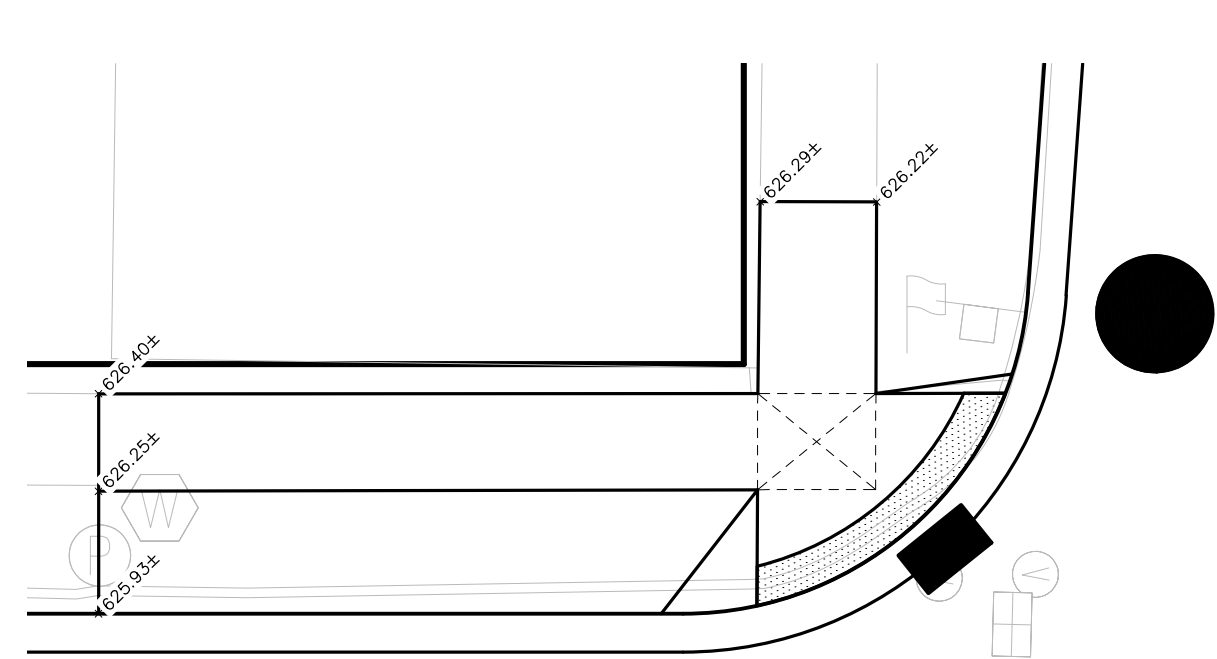
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DRAWN: J.J.S.
 DATE: MAR. '20
 CHECKED: M.R.H.
 DATE: MAR. '20

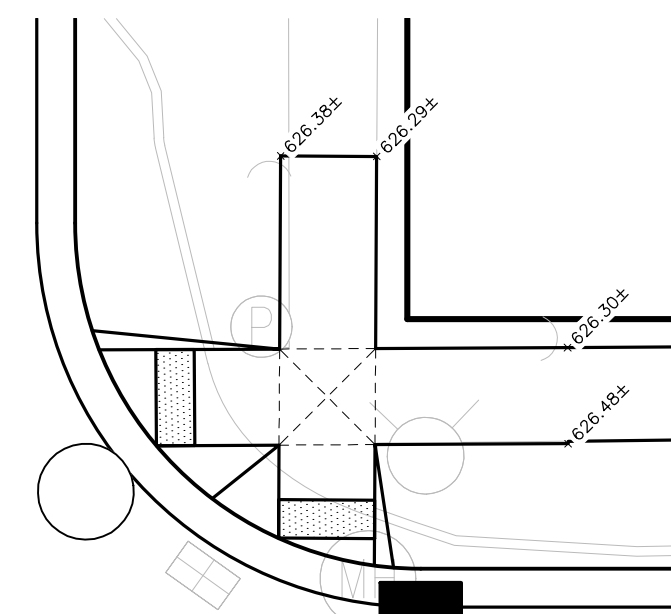


CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
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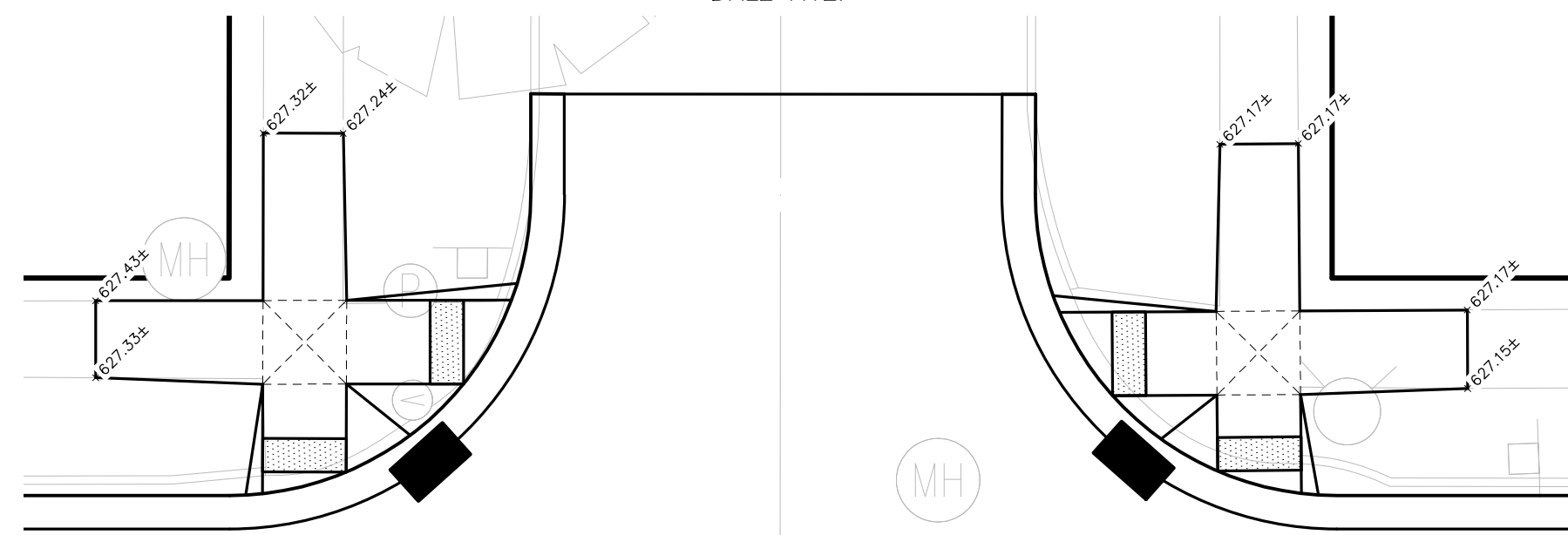
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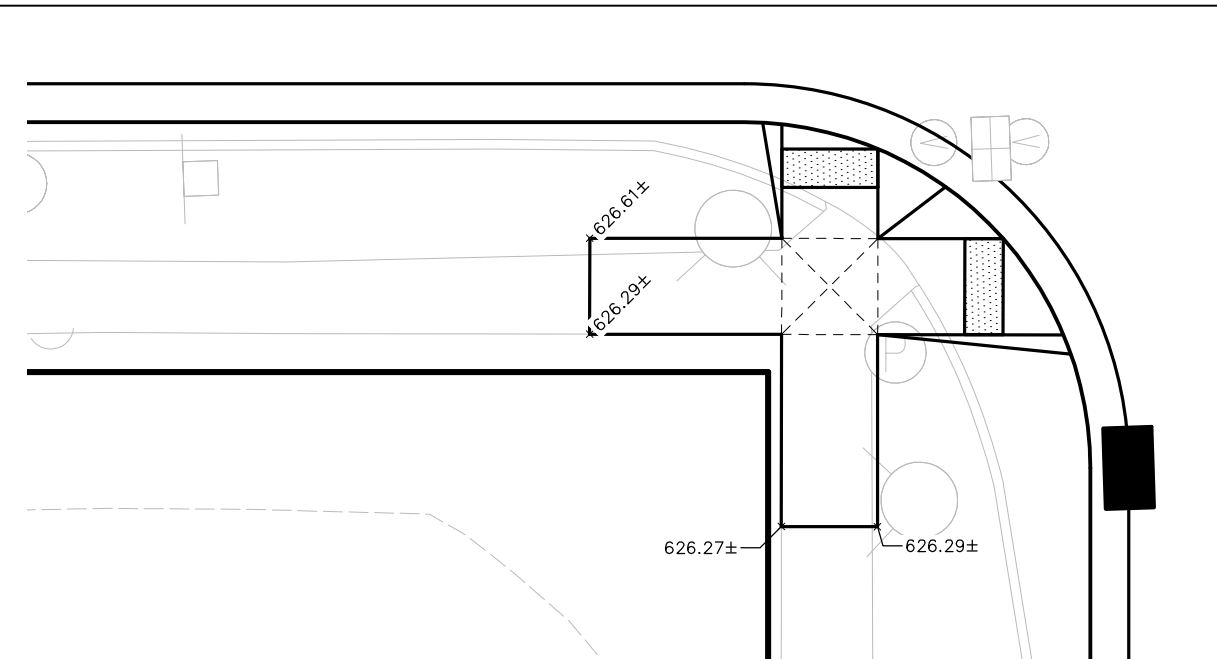
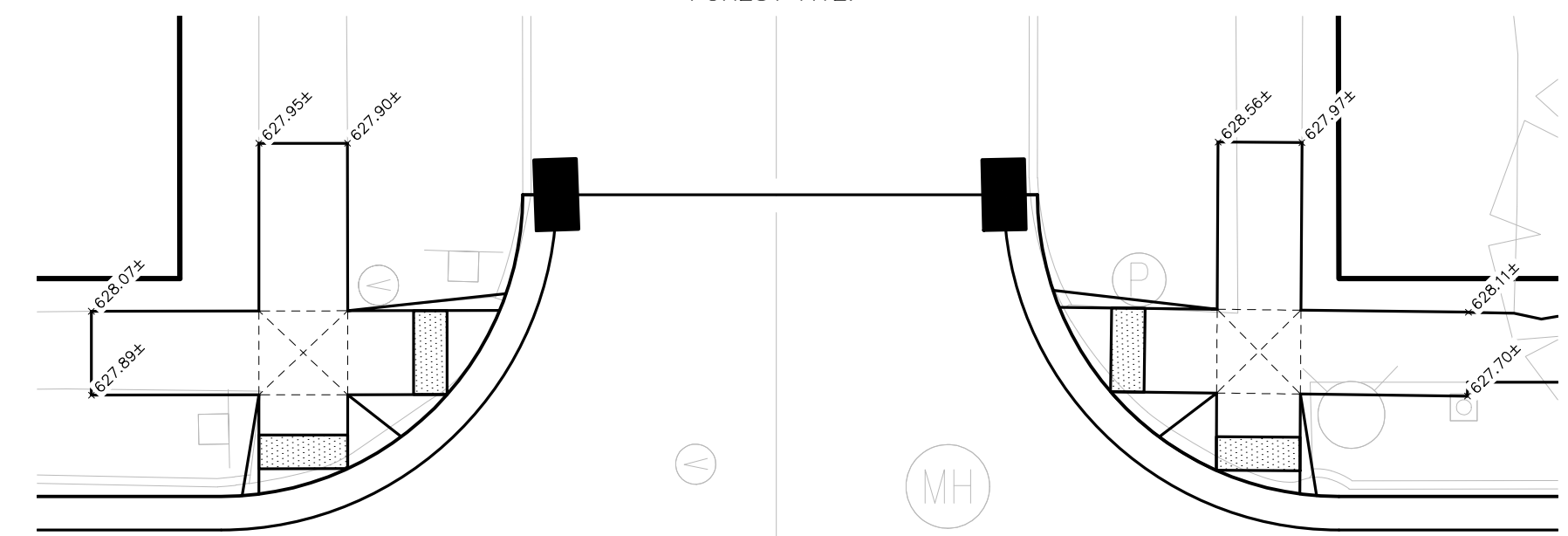
LARCH AVE.



DALE AVE.



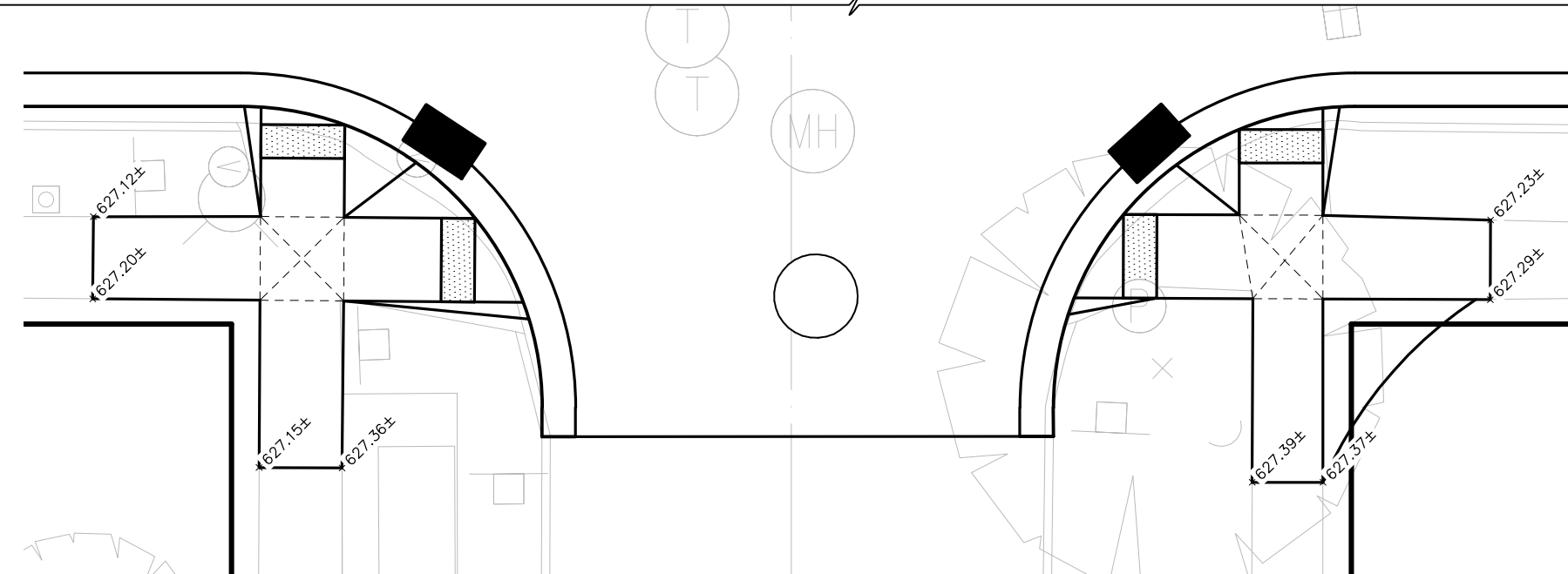
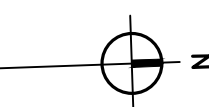
FOREST AVE.



LARCH AVE.

**PECK ST. & LARCH AVE.
SIDEWALK GRADING DETAILS**

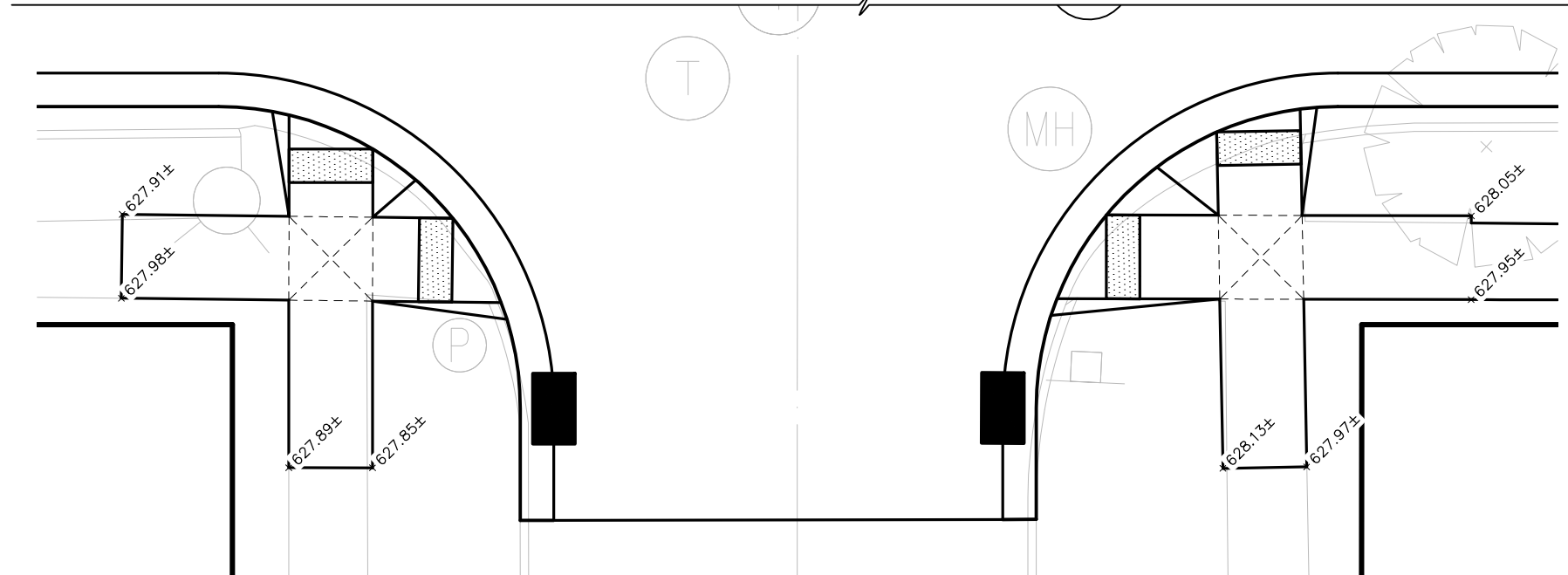
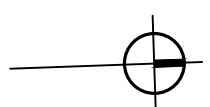
SCALE : 1" = 10'



DALE AVE.

**PECK ST. & DALE AVE.
SIDEWALK GRADING DETAILS**

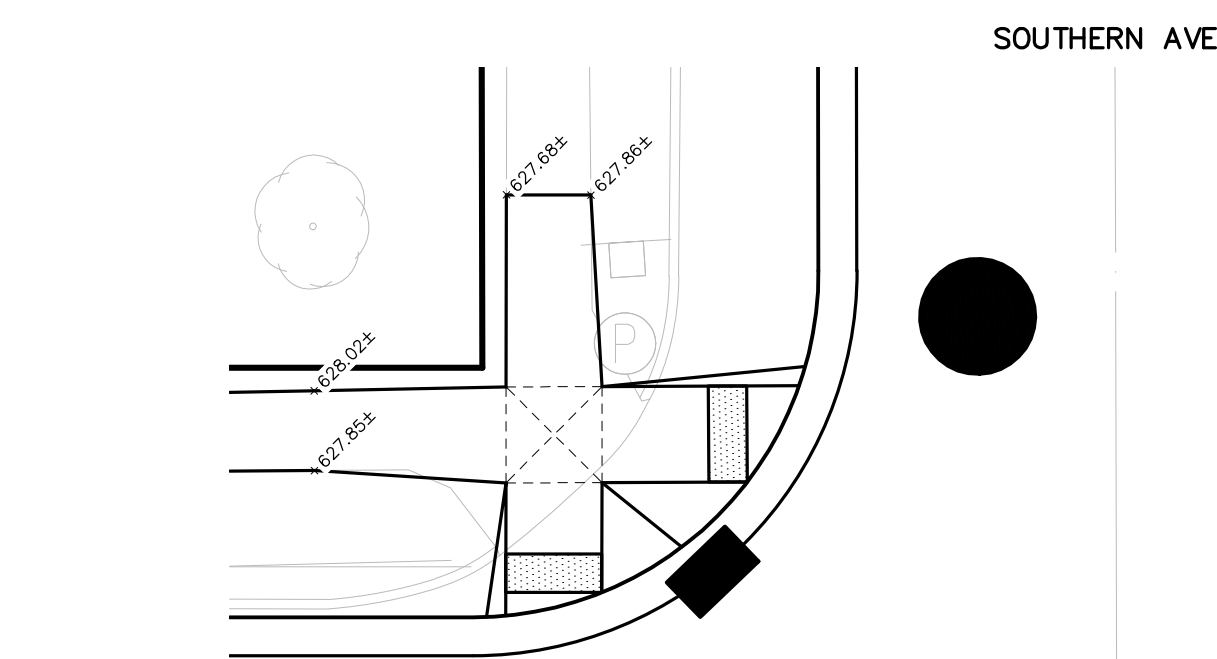
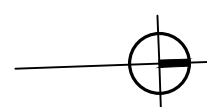
SCALE : 1" = 10'



FOREST AVE.

**PECK ST. & FOREST AVE.
SIDEWALK GRADING DETAILS**

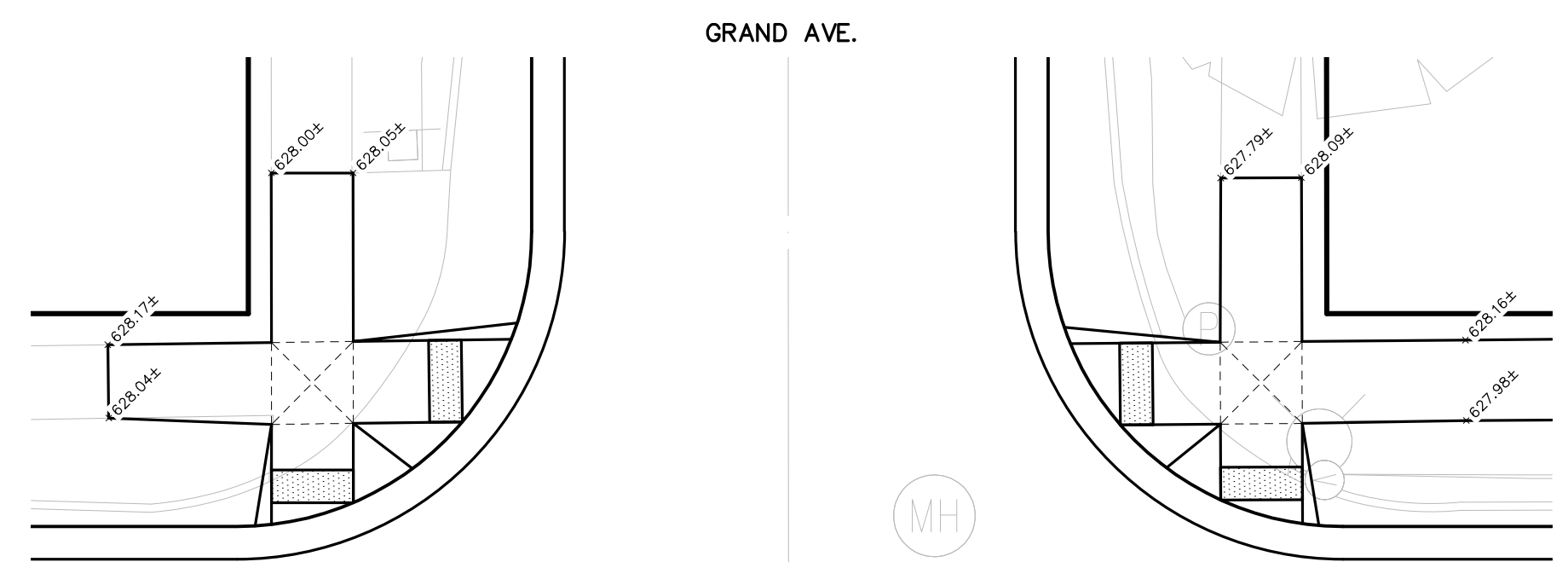
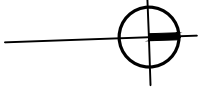
SCALE : 1" = 10'



SOUTHERN AVE.

**PECK ST. & SOUTHERN AVE.
SIDEWALK GRADING DETAILS**

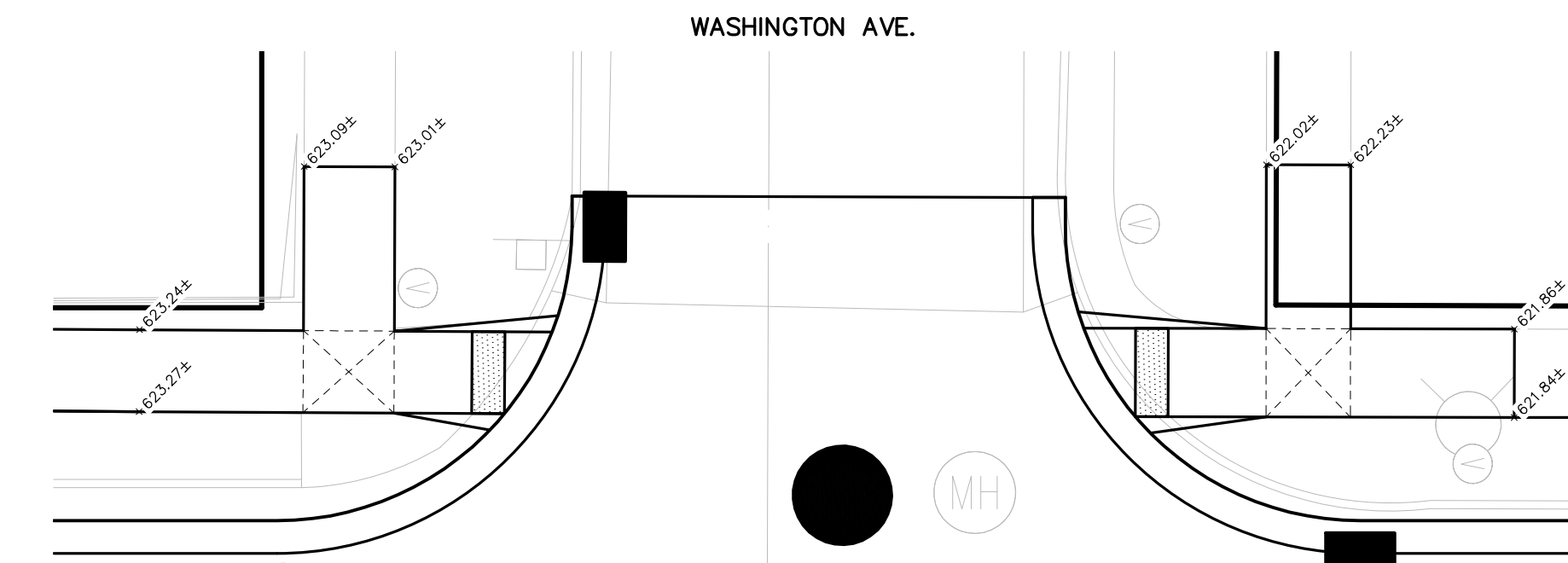
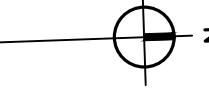
SCALE : 1" = 10'



GRAND AVE.

**PECK ST. & GRAND AVE.
SIDEWALK GRADING DETAILS**

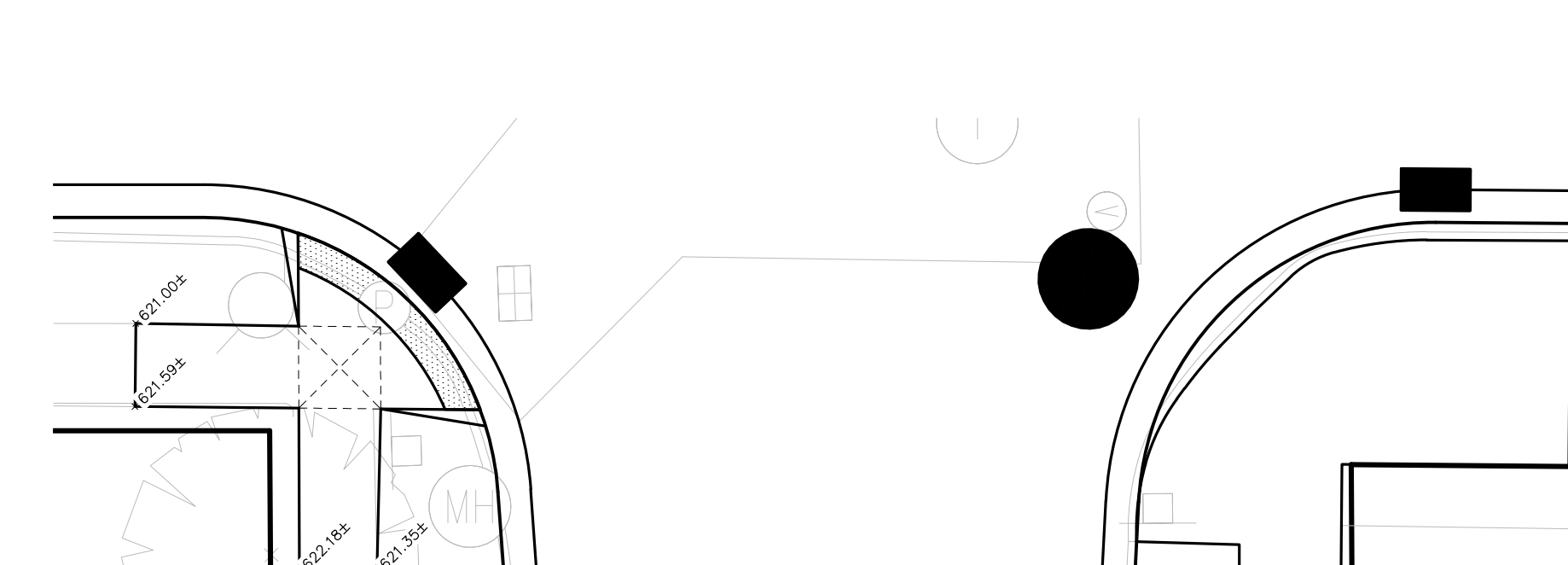
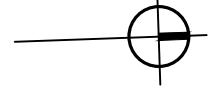
SCALE : 1" = 10'



WASHINGTON AVE.

**PECK ST. & LARCH AVE.
SIDEWALK GRADING DETAILS**

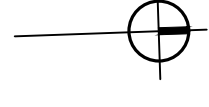
SCALE : 1" = 10'



IRWIN AVE.

**PECK ST. & IRWIN AVE.
SIDEWALK GRADING DETAILS**

SCALE : 1" = 10'



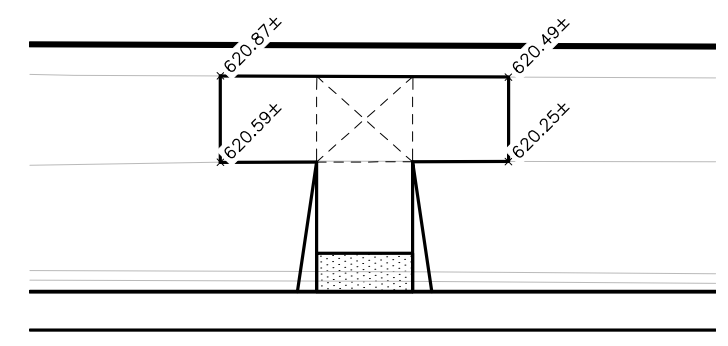
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| NO. | REVISIONS | BY | DATE | DRAWN |
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| | | | | J.J.S. |
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| | | | | MAR. '20 |

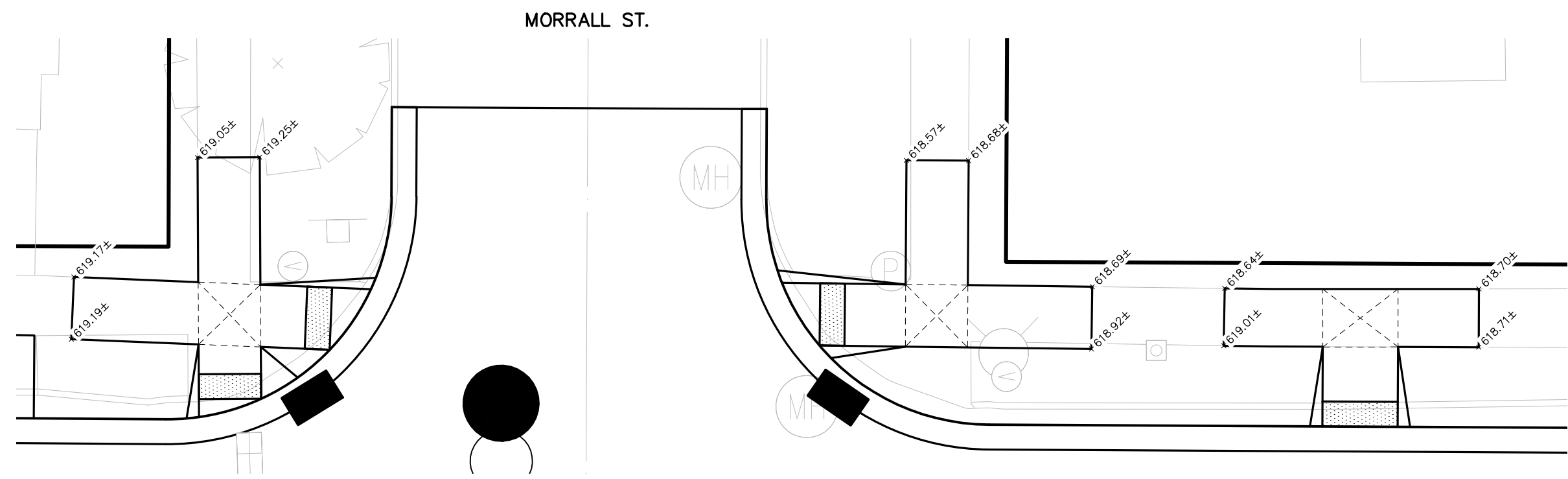
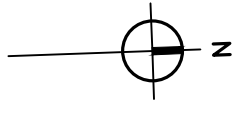
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MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
SIDEWALK GRADING DETAILS

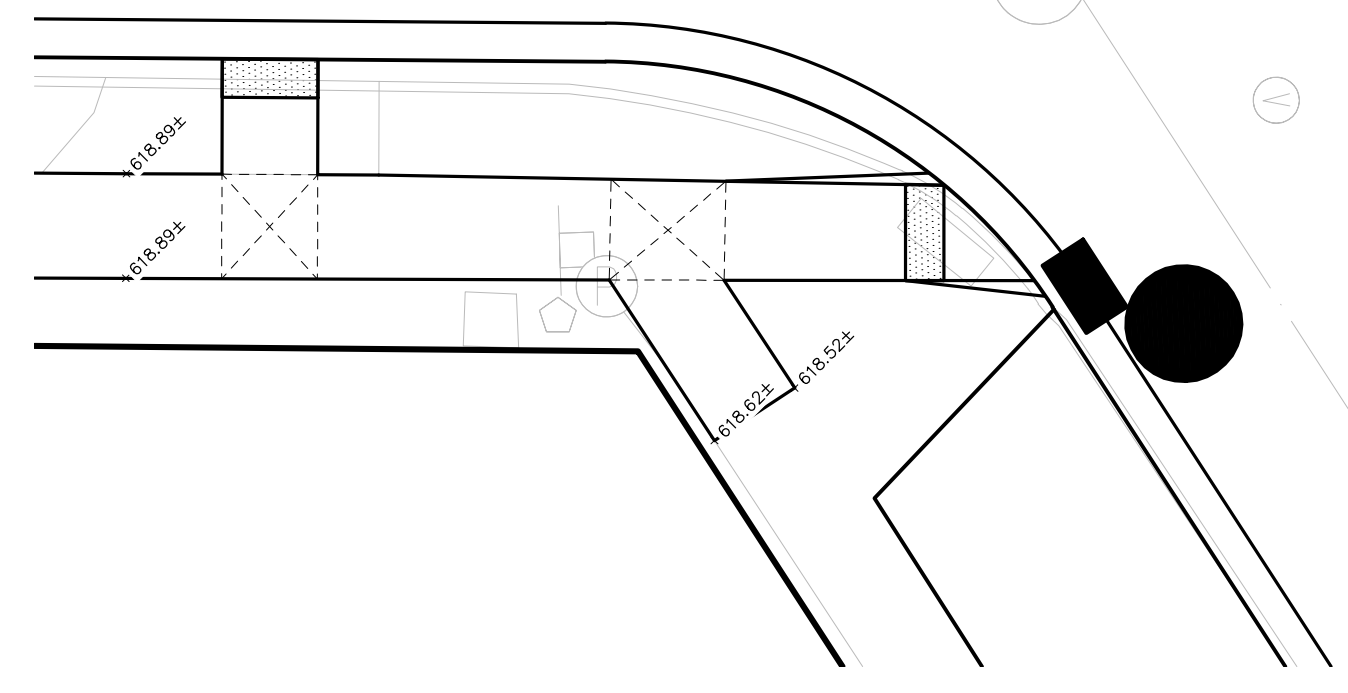
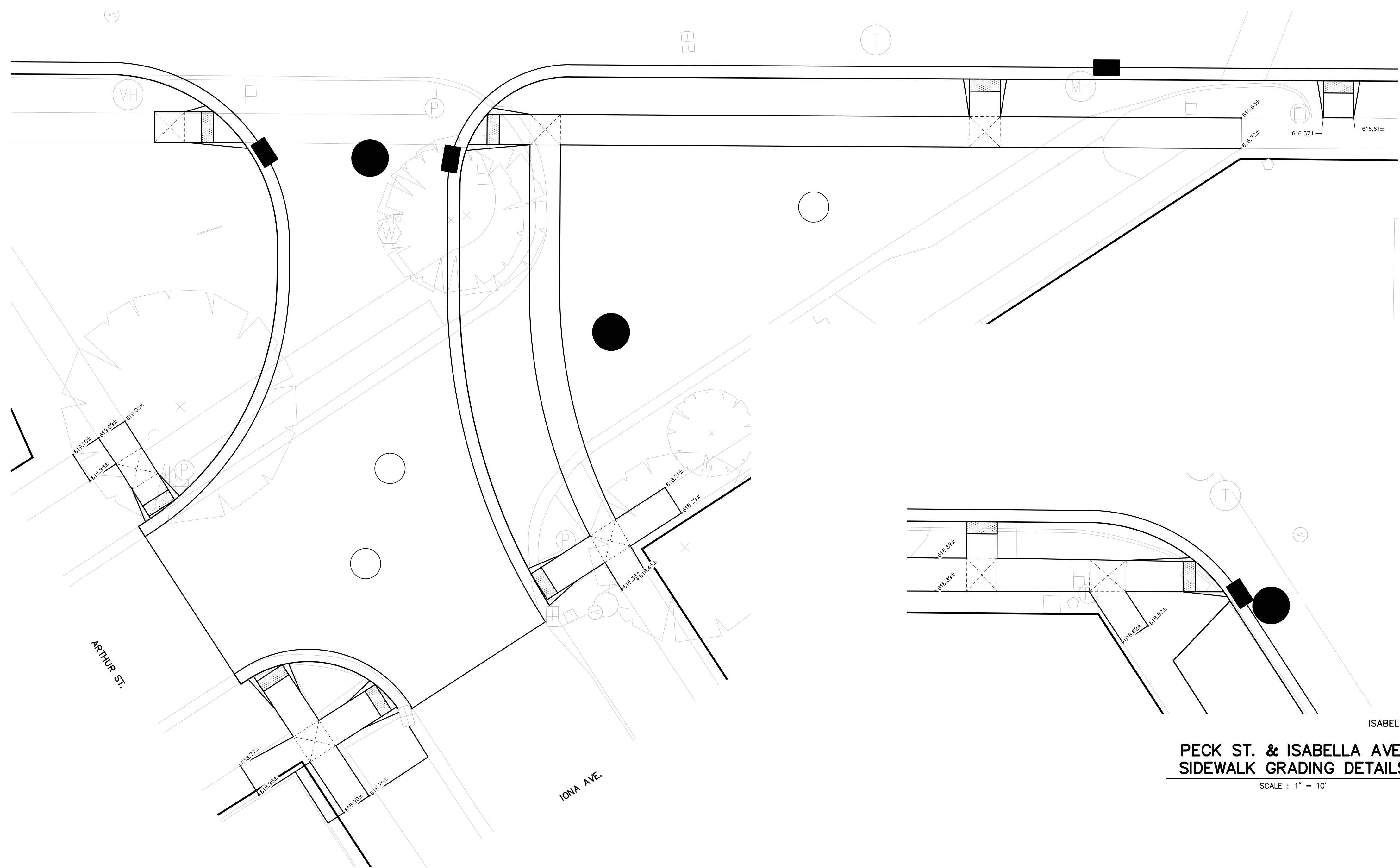
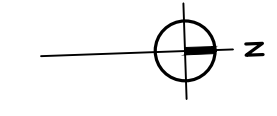
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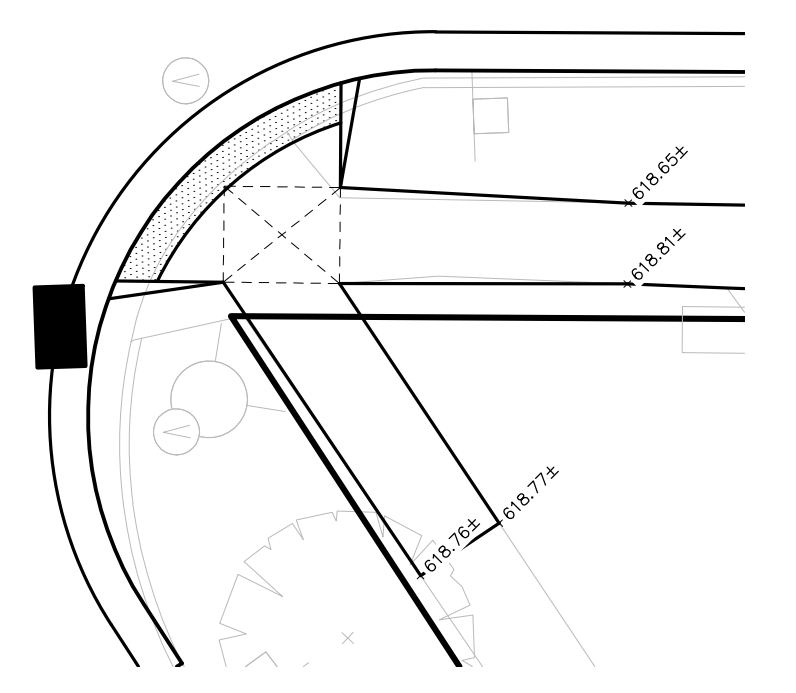
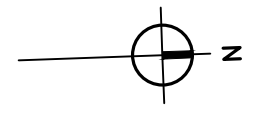
**PECK ST. @ STA. 46+00
SIDEWALK GRADING DETAILS**
SCALE : 1" = 10'



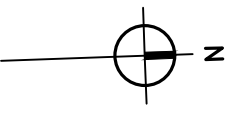
**PECK ST. & MORRALL ST.
SIDEWALK GRADING DETAILS**
SCALE : 1" = 10'



**PECK ST. & ISABELLA AVE.
SIDEWALK GRADING DETAILS**
SCALE : 1" = 10'



**PECK ST., ARTHUR ST. & IONA AVE.
SIDEWALK GRADING DETAILS**
SCALE : 1" = 10'



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| | | | | J.J.S. |
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| | | | | DATE MAR. '20 |

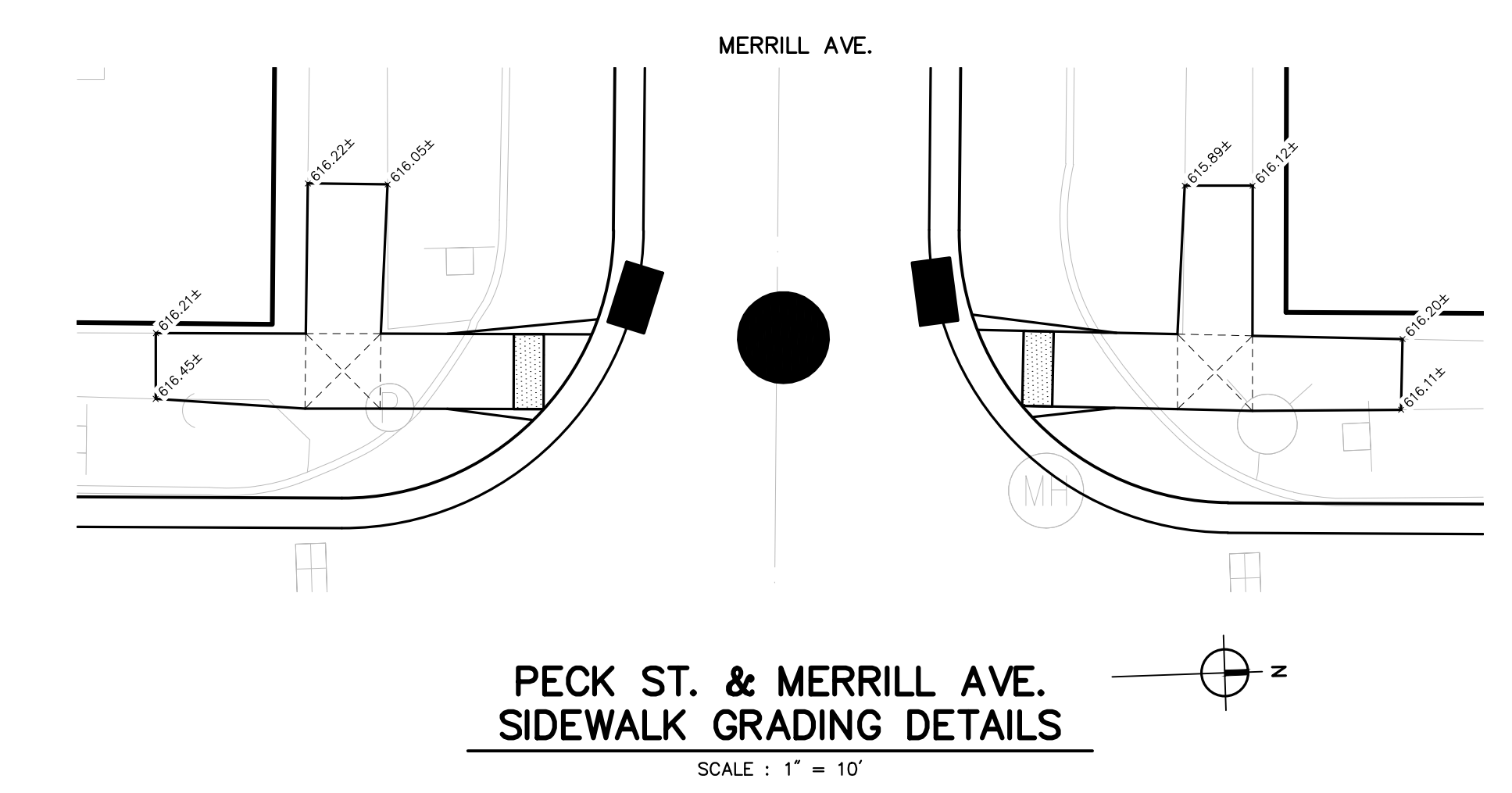
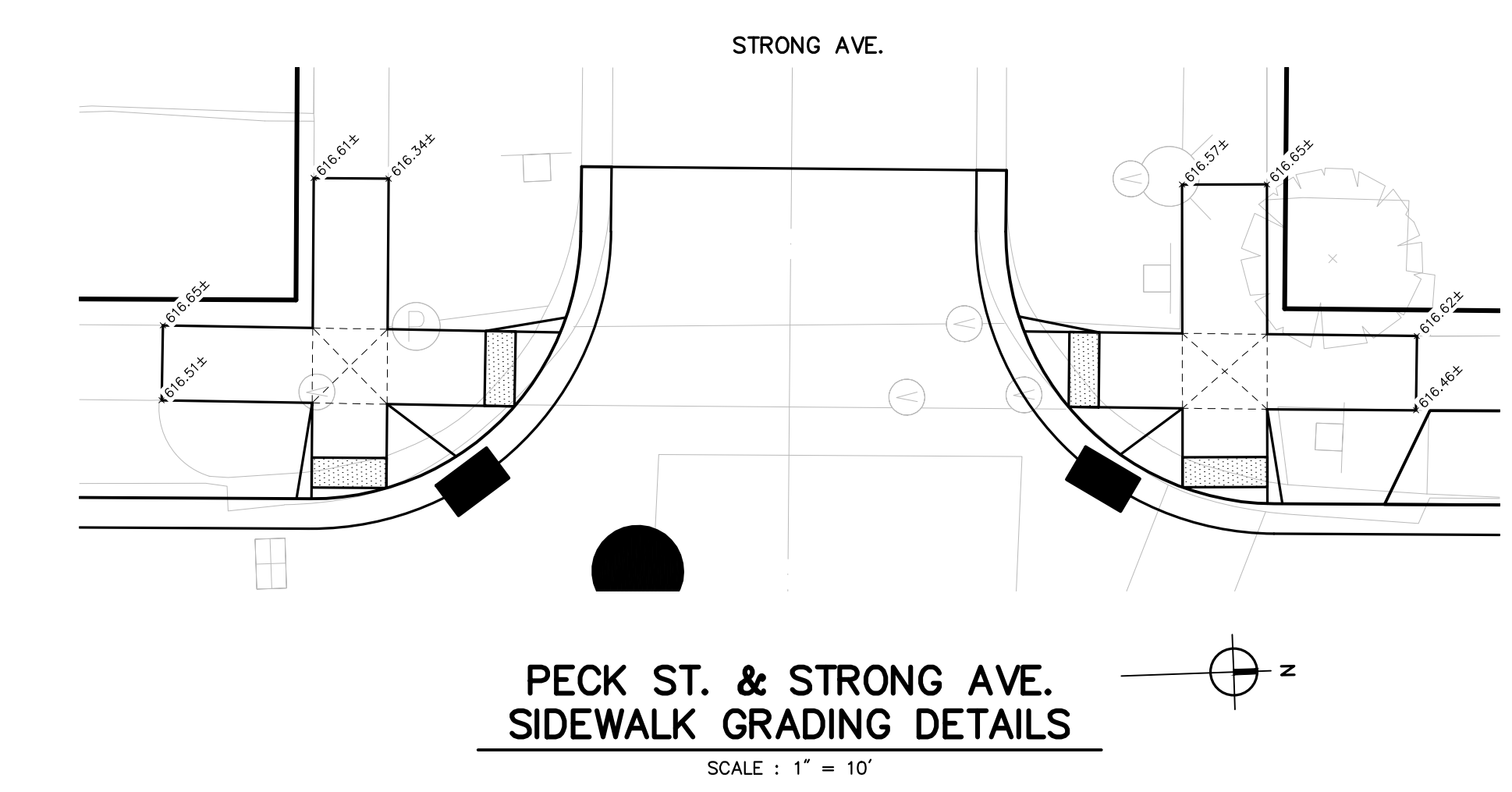
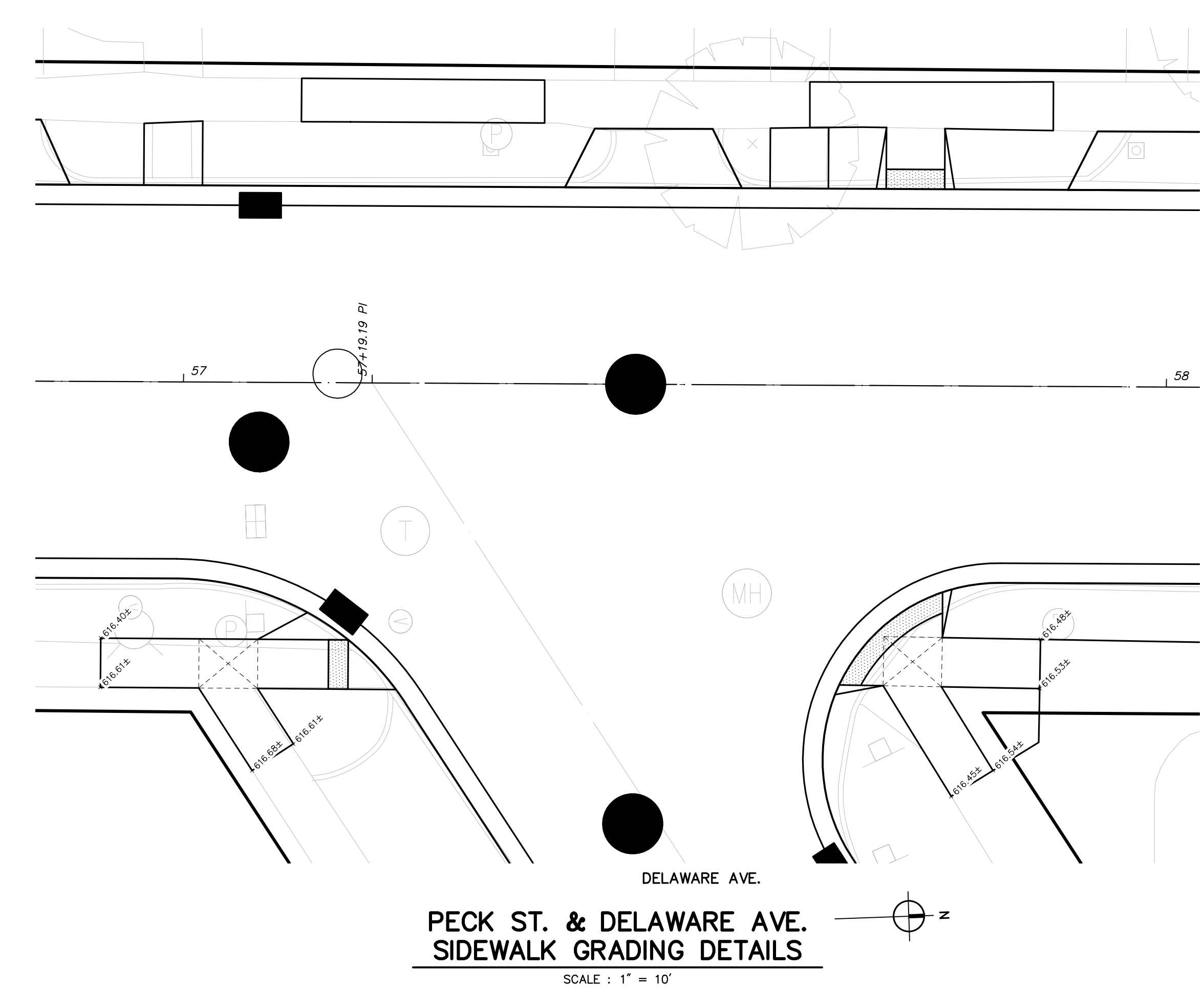
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MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
SIDEWALK GRADING DETAILS

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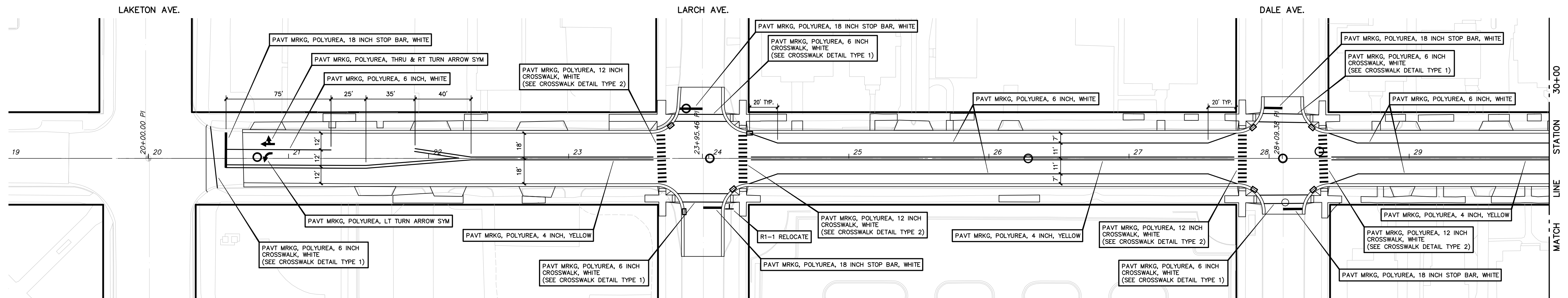
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 DATE: MAR. '20
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 DATE: MAR. '20

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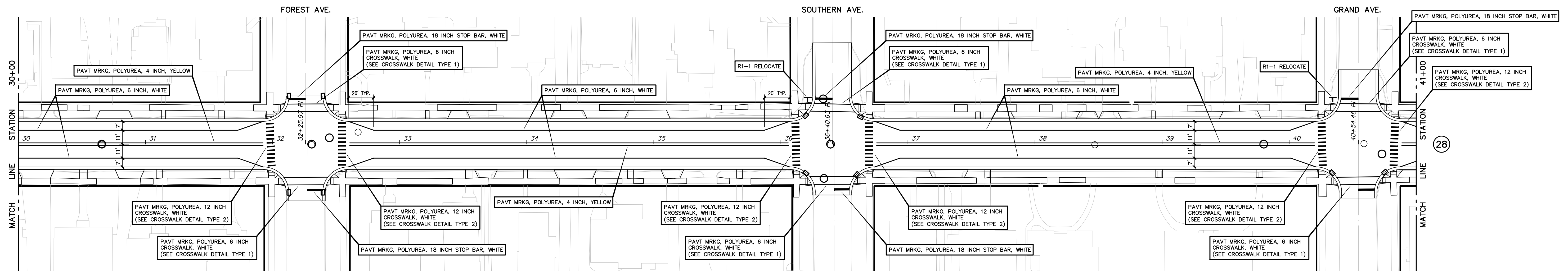
CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 SIDEWALK GRADING DETAILS

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 2190730
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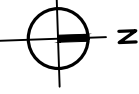
PECK STREET PAVEMENT MARKING & SIGNAGE PLAN

SCALE : 1" = 40'



PECK STREET PAVEMENT MARKING & SIGNAGE PLAN

SCALE : 1" = 40'



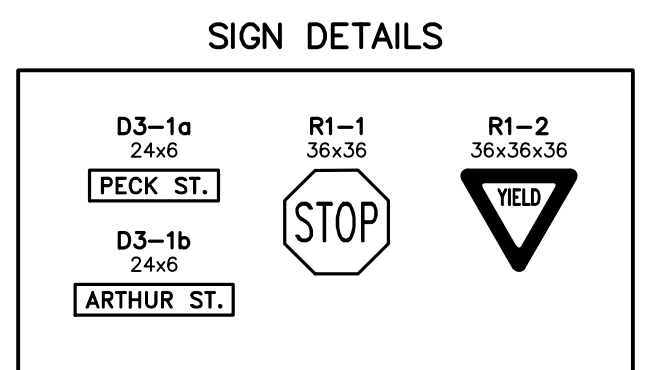
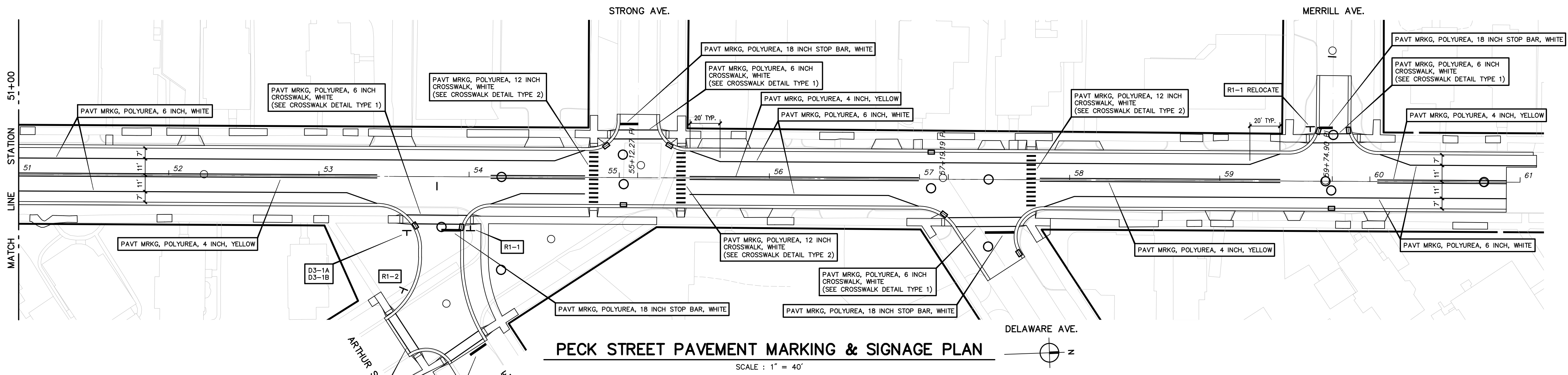
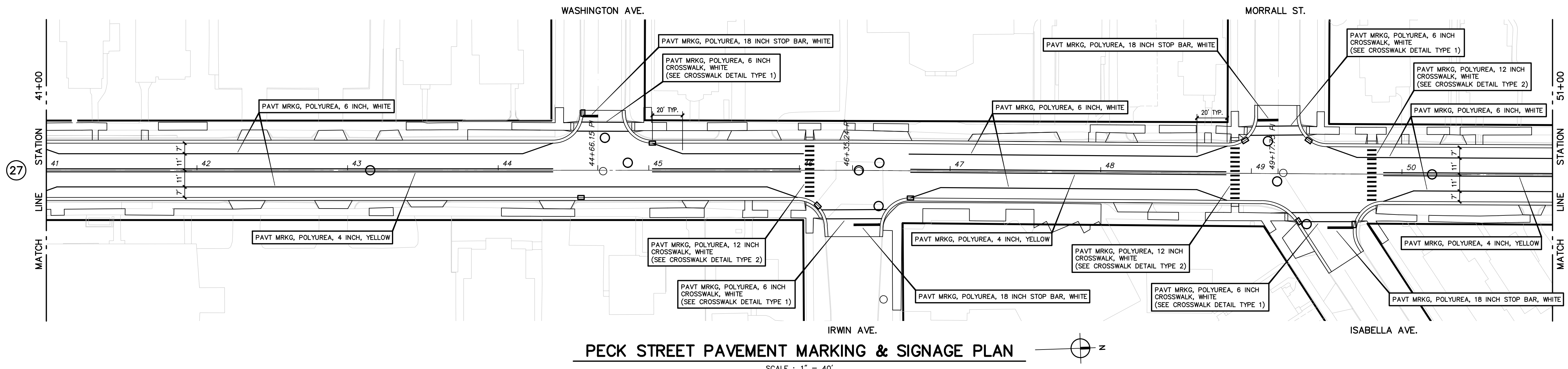
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DRAWN: J.J.S.
 DATE: MAR. '20
 CHECKED: M.R.H.
 DATE: MAR. '20

CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
PAVEMENT MARKING & SIGNAGE PLAN

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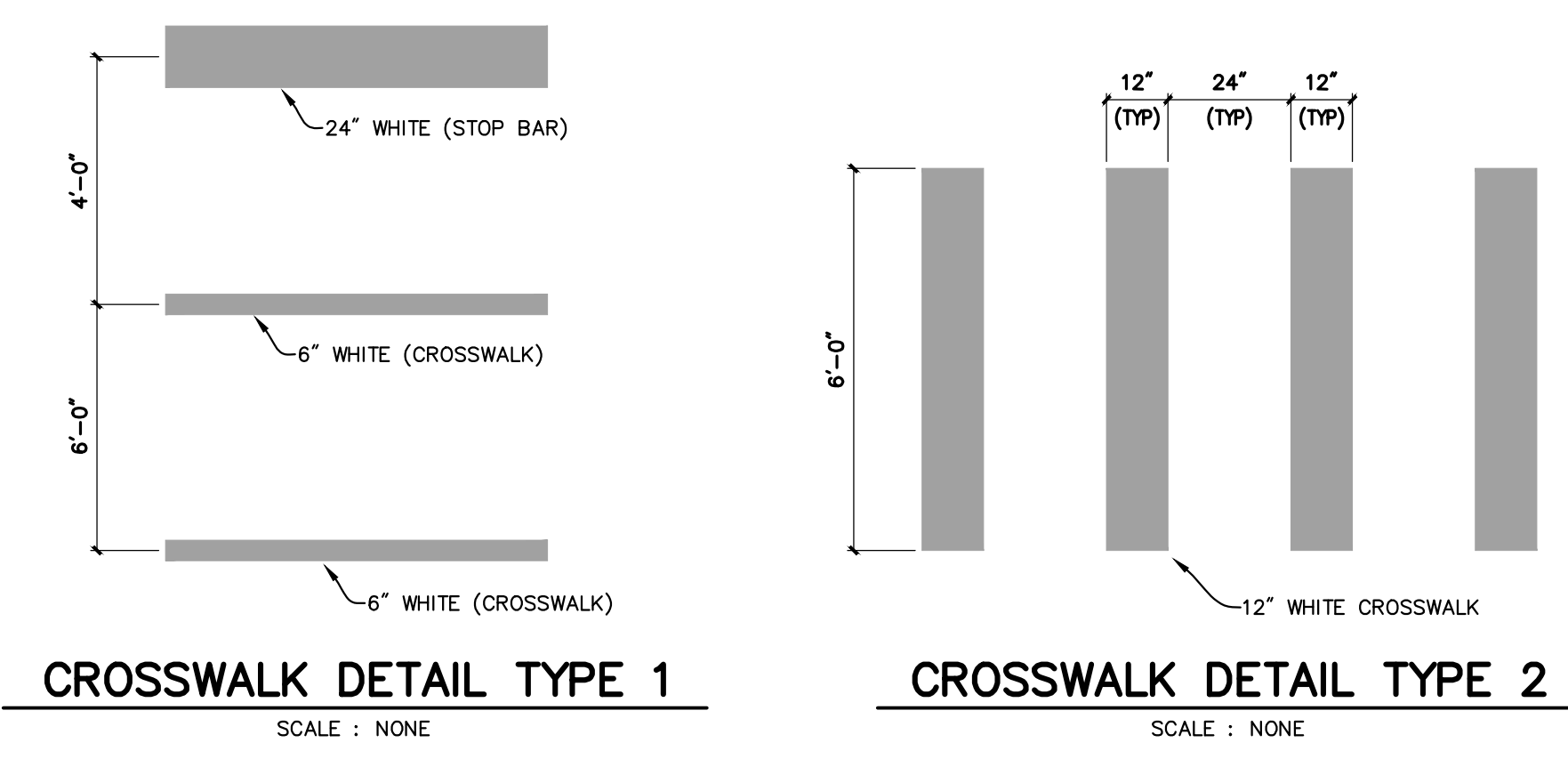


MARKING QUANTITIES

| | |
|---|-----------|
| PAVT MRKG, POLYUREA, LT TURN ARROW SYM | 1 EA |
| PAVT MRKG, POLYUREA, THRU & RT TURN ARROW SYM | 1 EA |
| PAVT MRKG, POLYUREA, 4 INCH, YELLOW | 6,050 FT |
| PAVT MRKG, POLYUREA, 4 INCH, WHITE | 75 FT |
| PAVT MRKG, POLYUREA, 18 INCH, STOP BAR | 285 FT |
| PAVT MRKG, POLYUREA, 6 INCH CROSSWALK, WHITE | 1,220 FT |
| PAVT MRKG, POLYUREA, 12 INCH CROSSWALK, WHITE | 1,225 FT |
| SIGN TYPE III B | 17.25 SFT |
| POST, STEEL, 3 LB | 45 FT |

LIST OF SIGNS

| ITEM | DESCRIPTION | SIZE | QUANTITY | TOTAL |
|-------|-------------|-------------------|----------|----------|
| D3-1a | PECK ST. | 24 INCH X 6 INCH | 1 | 1 SFT |
| D3-1b | ARTHUR ST. | 24 INCH X 6 INCH | 1 | 1 SFT |
| R1-1 | STOP SIGN | 36 INCH X 36 INCH | 1 | 9 SFT |
| R1-2 | YIELD | 30 INCH X 30 INCH | 1 | 6.25 SFT |



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| | | | | MAR. '20 |

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MUSKOGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

PAVEMENT MARKING & SIGNAGE PLAN

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