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Plotted: 1/22/2016 6:40 PM by Steven Lewis



CITY OF HOMER DWD UPLANDS HOMER ALASKA

THIS PROJECT IS FUNDED THROUGH A LEGISLATIVE GRANT
(11-DC-233) PROVIDED BY THE STATE OF ALASKA.

BID DOCUMENTS 1/22/2016



MAYOR
BETH WYTHE

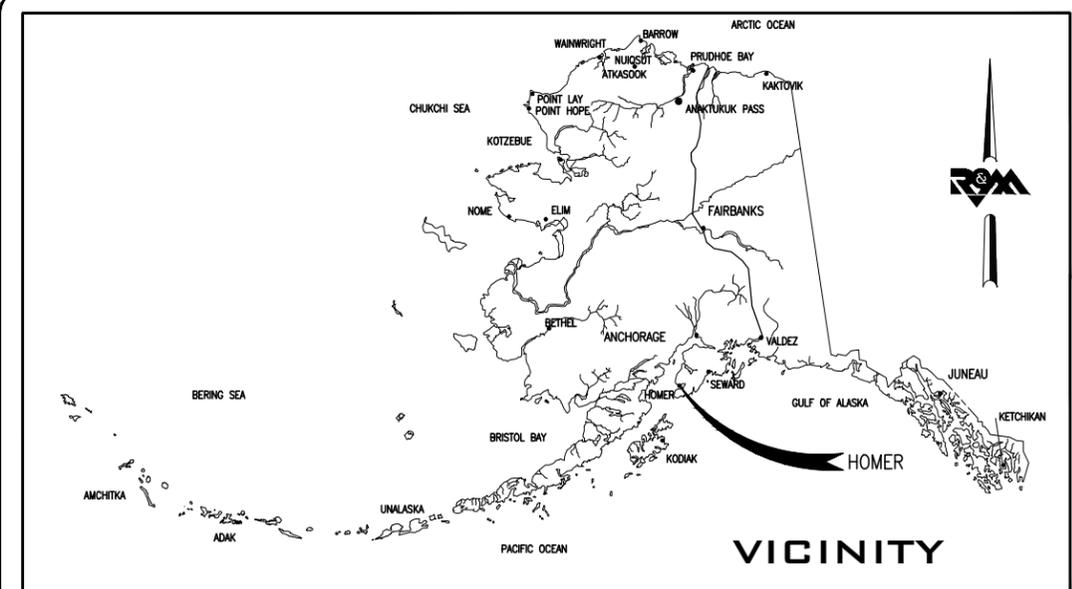
CITY MANAGER
MARY K. KOESTER

CITY COUNCIL MEMBERS

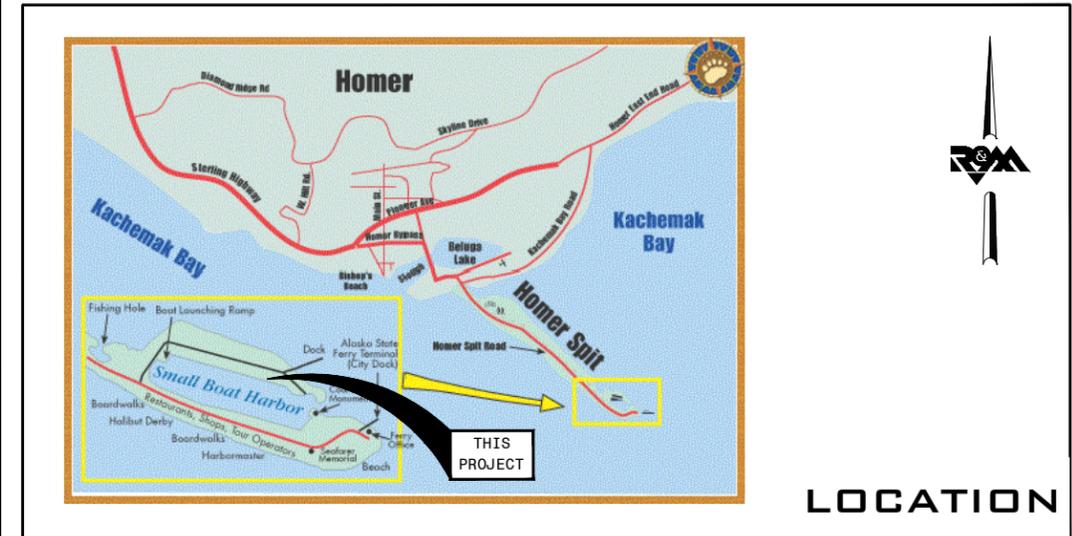
DAVID LEWIS
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PUBLIC WORKS DIRECTOR
CAREY S. MEYERS, P.E.

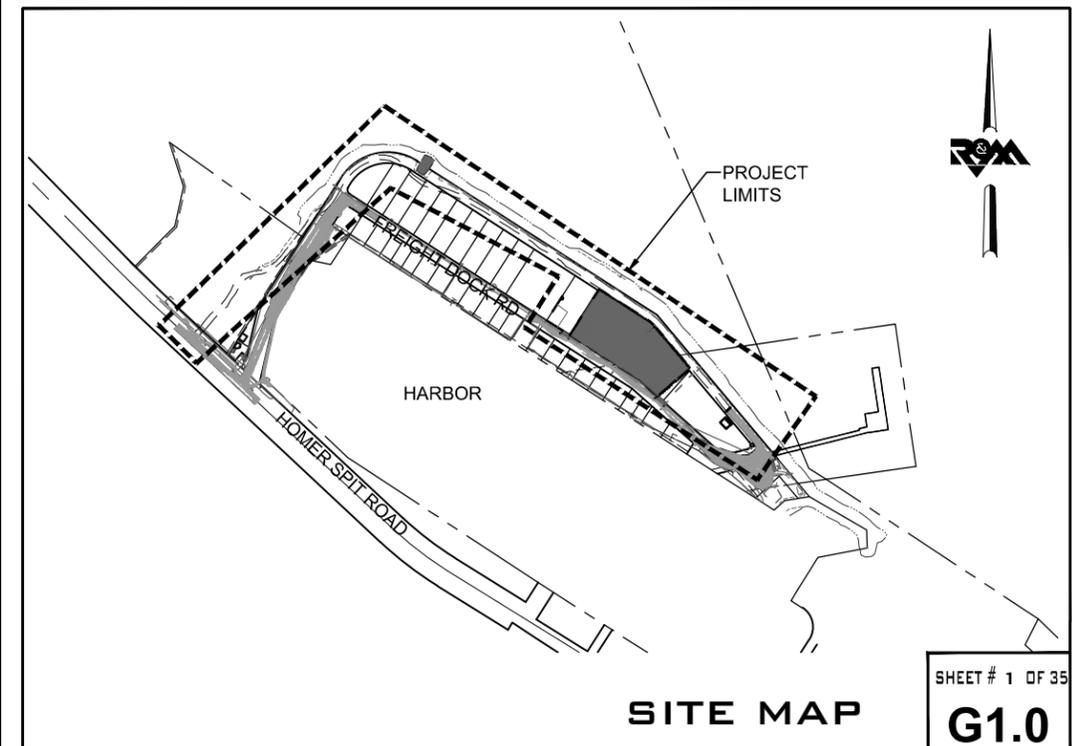
Designed By:



VICINITY



LOCATION



SITE MAP

SHEET # 1 OF 35
G1.0

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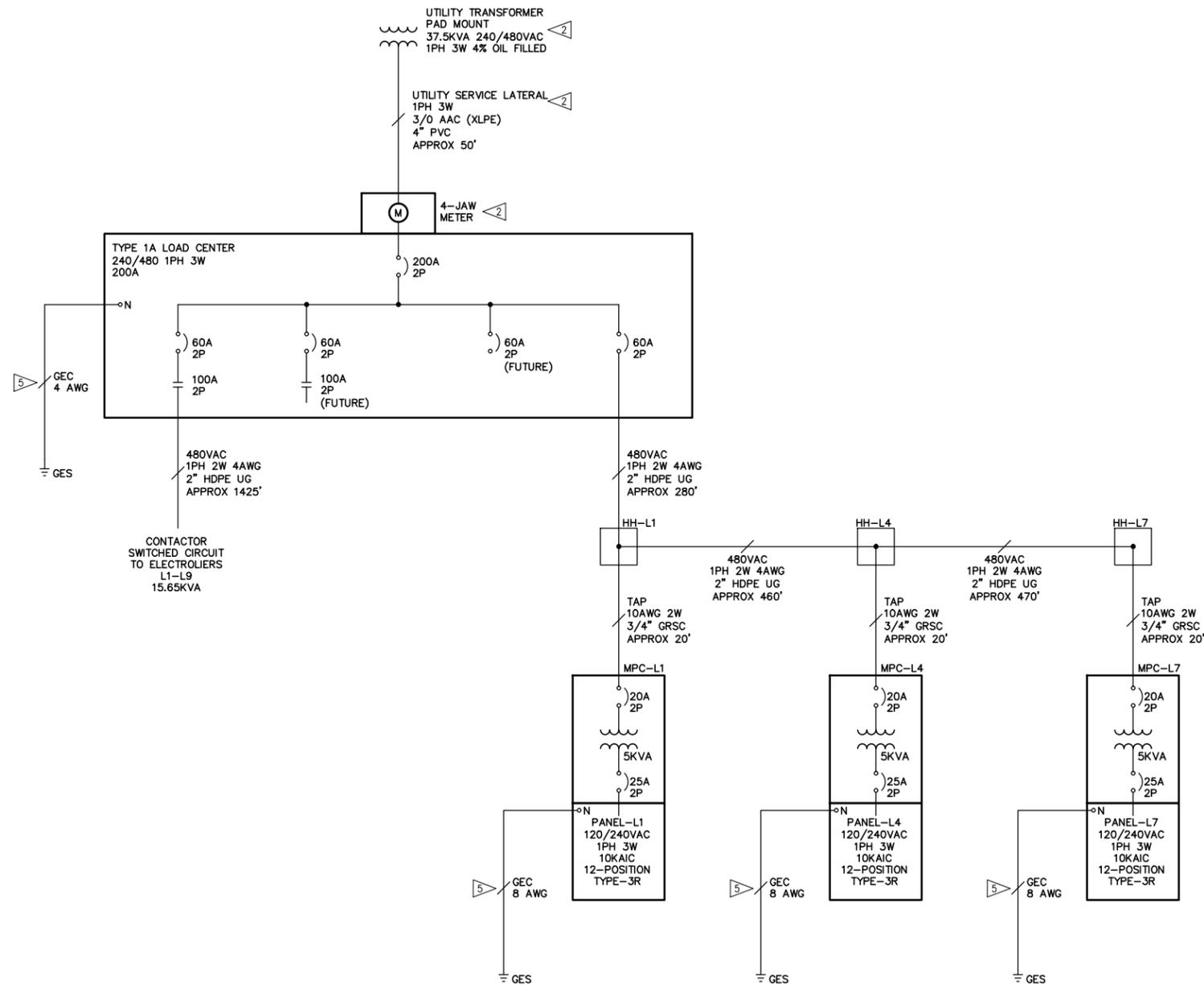
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Drawn By: SL Checked By: JD
 Date: JANUARY 22, 2016
 From: BID DOCUMENTS
 Project No: 1841.05
 SHEET TITLE: SHEET INDEX

SHEET NO:
 2 OF 35
G1.1

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1 POWER SYSTEM ONE-LINE DIAGRAM
Scale: NA

NOTES:

1. PROVIDE EQUIPMENT, CONDUCTORS AND PATHWAYS AS ANNOTATED, OR IF NOT ANNOTATED AS NECESSARY FOR FULLY FUNCTIONAL ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL CONDUCTORS SHALL BE 600V XHHW STRANDED COPPER UNLESS OTHERWISE NOTED.
2. THE ELECTRIC POWER UTILITY IS NOT OBLIGATED TO PROVIDE IN ACCORDANCE WITH THIS DRAWING; THE UTILITY TRANSFORMER AND UTILITY SERVICE LATERAL ARE DESIGNED AND PROVIDED BY THE UTILITY; THE SCHEDULING, INSTALLATION AND SPECIFICATION OF UTILITY EQUIPMENT AND MATERIALS IS AT THE DISCRETION OF THE UTILITY; THE SIZES AND MATERIALS DEPICTED ON THIS DRAWING FOR THE UTILITY TRANSFORMER AND UTILITY SERVICE LATERAL ARE ONLY REPRESENTATIVE OF SIMILAR INSTALLATIONS, AND DO NOT NECESSARILY REPRESENT WHAT THE UTILITY WILL ACTUALLY PROVIDE; THE METER IS PROVIDED BY THE UTILITY, HOWEVER, THE METER BASE IS PROVIDED BY THE OWNER IN ACCORDANCE WITH UTILITY REQUIREMENTS; IT IS THE OWNER'S RESPONSIBILITY TO ARRANGE UTILITY SERVICES.
3. COORDINATE UTILITY SERVICE CONNECTION, METERING REQUIREMENTS, METER INSTALLATION, AND RELATED WORK WITH THE LOCAL ELECTRIC POWER UTILITY; PROVIDE SERVICE EQUIPMENT IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.
4. PROVIDE TYPE 1A LOAD CENTER, MILBANK CP3BSL SERIES, 200A, TYPE-3R RAINPROOF, STAINLESS STEEL ENCLOSURE, PEDESTAL MOUNTING BASE, "SWITCHED" PE-CONTROLLED 4-POLE 100A CONTACTOR, HAND-OFF-AUTO SWITCH, "ALWAYS ON" SECTION, CONTROL POWER CIRCUIT BREAKER, MAIN BREAKER; POPULATE BREAKER AND SWITCHED CIRCUIT POSITIONS IN ACCORDANCE WITH THE ONE-LINE DIAGRAM; COORDINATE WITH POWER UTILITY FOR METER AND TEST SWITCH REQUIREMENTS, AND PROVIDE ACCORDINGLY.
5. PROVIDE GROUNDING ELECTRODE CONDUCTOR (GEC) CONNECTION, AND EARTH ELECTRODES.
6. PROVIDE MINI-POWER CENTER, EATON P48G11S05S6, 316 STAINLESS STEEL ENCLOSURE, 5KVA, 1-PHASE, 480:120/240VAC, EHD2020 PRIMARY CIRCUIT BREAKER, BR225 SECONDARY BREAKER, 12 SINGLE POLE POSITIONS, TYPE-3R ENCLOSURE, WEIGHS 110 LB, SURFACE MOUNT; PROVIDE ALL BRANCH CIRCUIT POSITIONS WITH EATON TYPE BR 15A 1-POLE 10KAIC BREAKERS.



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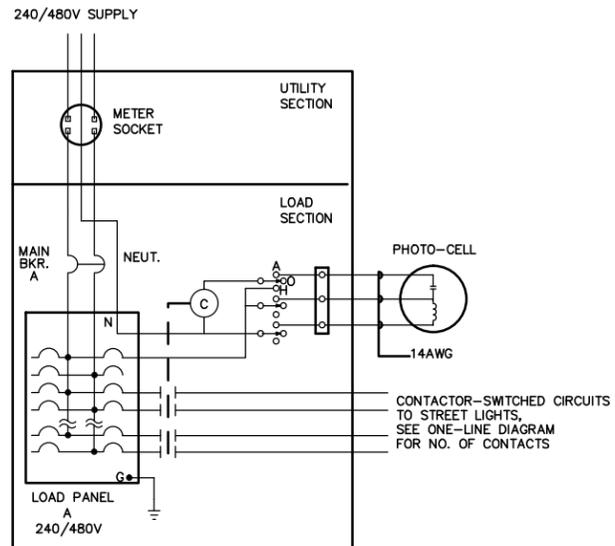
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Drawn By: SL
Checked By: JD
Date: JANUARY 22, 2016
From: BID DOCUMENTS
Project No: 1841.05
SHEET TITLE: POWER SYSTEM ONE-LINE DIAGRAM

SHEET NO: 28OF 35
E1.3

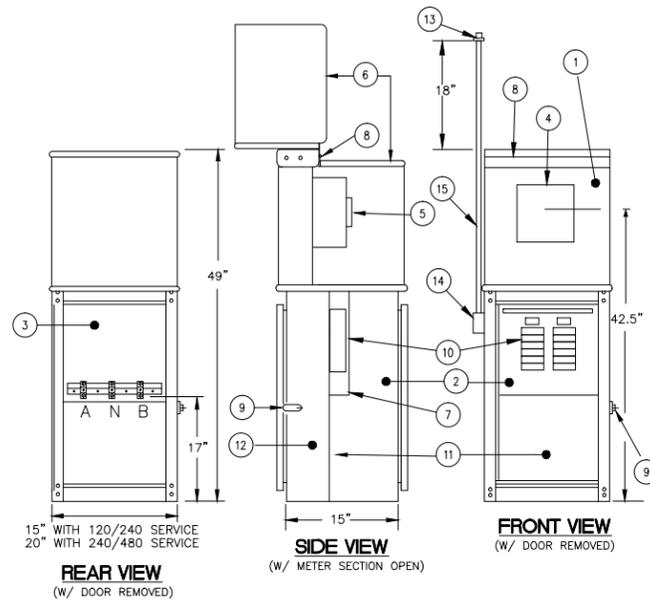
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1 LOAD CENTER WIRING DIAGRAM

Scale: NA



- EQUIPMENT LEGEND/DESCRIPTION**
- | | | |
|--|--|--|
| 1. METERING SECTION | 6. LIFT AWAY METER SECTION COVER | 12. SERVICE PULL SECTION |
| 2. LOAD SECTION | 7. DEADFRONT | 13. PHOTOCCELL |
| 3. UTILITY CONNECTION AND TEST BLOCK SECTION | 8. STAINLESS STEEL PIN HINGE | 14. WEATHERTIGHT LB |
| 4. METER READING WINDOW (8"x8") | 9. PADLOCKING PROVISIONS | 15. 3/4" GRC CONDUIT, STRAP ON 24" CENTERS |
| 5. METER SOCKET W/BYPASS & SAFETY SOCKET | 10. DISTRIBUTION PANEL W/ MAIN BREAKER | |
| | 11. ACCESSORY MOUNTING EQUIPMENT AREA | |

2 LOAD CENTER ENCLOSURE

Scale: NA

NOTES:

1. PROVIDE CONDUCTORS AND PATHWAYS AS ANNOTATED, OR IF NOT ANNOTATED AS NECESSARY FOR FULLY FUNCTIONAL ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL CONDUCTORS SHALL BE 600V XHHW STRANDED COPPER UNLESS OTHERWISE NOTED.
2. PROVIDE LOAD CENTER IN ACCORDANCE WITH THE POWER SYSTEM ONE-LINE DIAGRAM.
3. PROVIDE LOAD CENTER WITH COMPATIBLE COMMERCIAL-OFF-THE-SHELF PRECAST FOUNDATION.



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City of Homer
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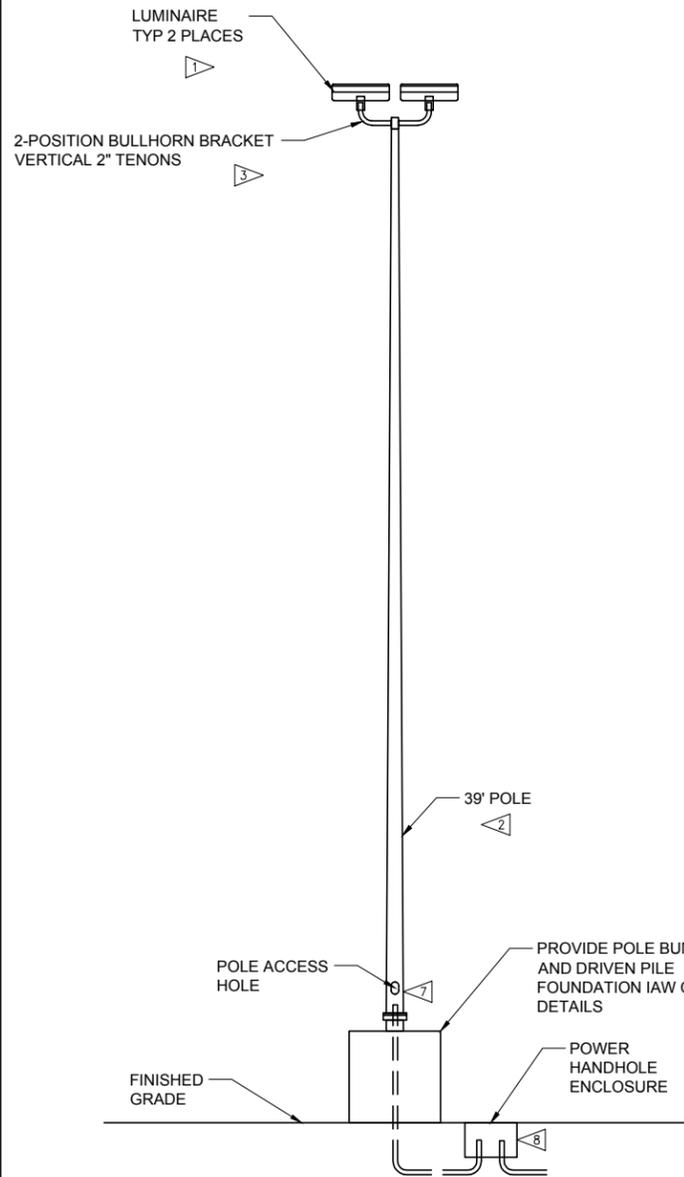
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SHEET NO: 29OF 35

E1.4

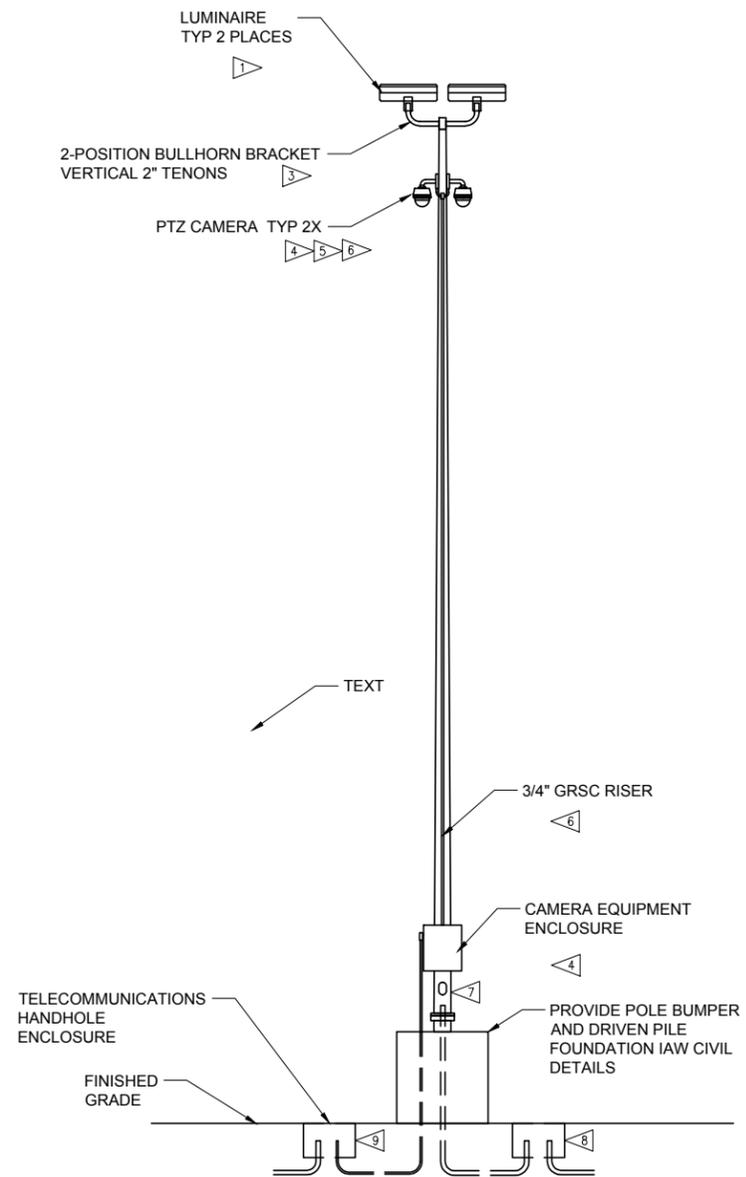
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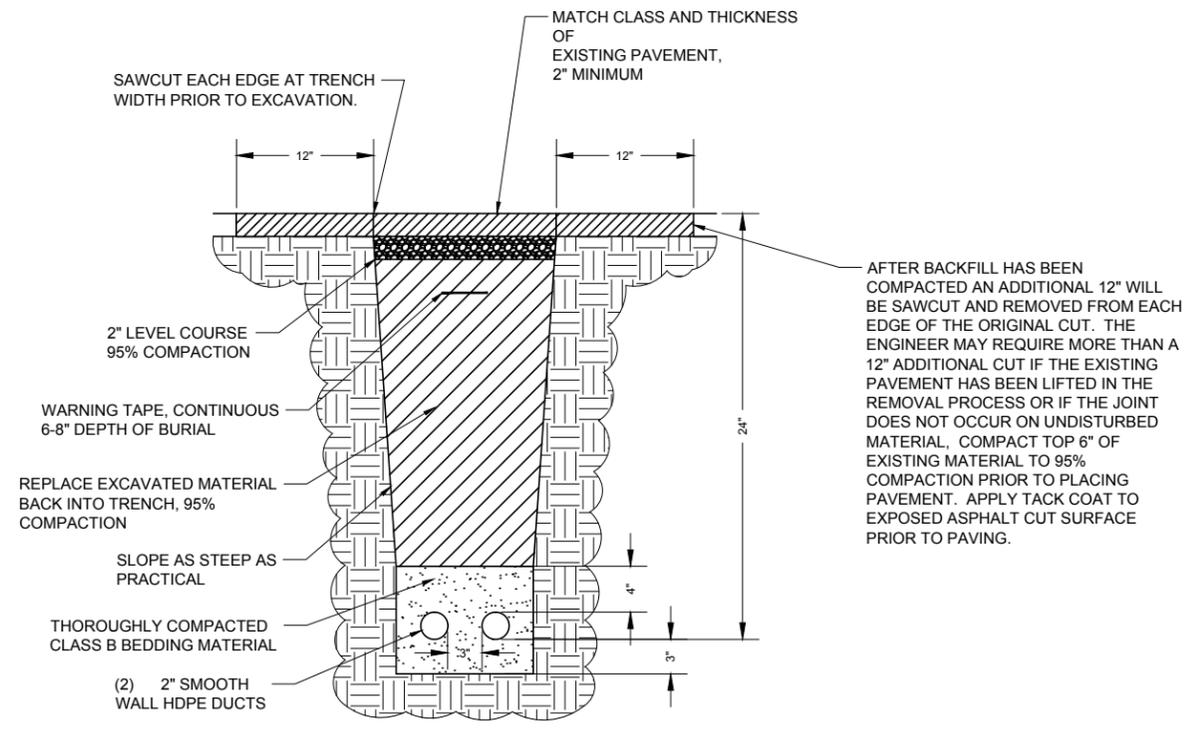
1 TYPICAL ELECTROLIER ELEVATION

SCALE: 1/4" = 1' (D-SIZE)
1/8" = 1' (B-SIZE)



2 TYPICAL CAMERA SITE ELEVATION

SCALE: 1/4" = 1' (D-SIZE)
1/8" = 1' (B-SIZE)



1 TRENCH DETAIL

SCALE: NTS

NOTES

1. PROVIDE LUMINAIRES, CREE EDGE SERIES, CREE ARE-EHO-4MB-V-24-E-UH-SV-1000-50K, TYPE-4 MEDIUM OPTIC WITH BLS, FOR MOUNTING ON VERTICAL 2" TENON, ADJUSTABLE MOUNT, 240 LED, SERIES E, UNIVERSAL 347-480VAC, SILVER COLOR, 1000MA DRIVE CURRENT, 5000 KELVIN COLOR TEMPERATURE, 90 CRI, 831 WATTS, 1.81A, 0.92 100K HOUR CALCULATED LMF; ADJUST EACH LUMINAIRE FOR 10 DEGREES ELEVATION
2. PROVIDE POLE, VALMONT DS210900E389P2GVGVFBCLAB, ROUND TAPERED STEEL POLE, 39', 7GA WALL THICKNESS, 4-BOLT ANCHOR BASE.
3. PROVIDE BULLHORNS, VALMONT MD102, TWO VERTICAL 2" TENONS 36" APART ON-CENTER; COORDINATE COMPATIBILITY AND SIZE OF POLE TOP TENON WITH BULLHORN SOCKET FITTING.
4. PROVIDE CAMERA NODE EQUIPMENT IN ACCORDANCE WITH CAMERA NODE BLOCK DIAGRAM. PROVIDE MINI-POWER CENTER ON POLE, OPPOSITE CAMERA EQUIPMENT ENCLOSURE; PROVIDE MOUNTING CHANNELS AND U-BOLTS.
5. PROVIDE CAMERA MANUFACTURER'S RECOMMENDED POLE-MOUNT BRACKET.
6. PROVIDE 3/4" GRSC PATHWAY BETWEEN CAMERA GROUP AND ENCLOSURE. PROVIDE COMPATIBLE LFMC CONNECTION BETWEEN GRSC AND CAMERAS.
7. PROVIDE FUSED BREAKAWAY, FOR LUMINAIRES, IN BASE OF POLE, SEC 1791-DF, DOUBLE FUSED CONNECTOR KIT; PROVIDE COMPATIBLE 10A FUSES.
8. PROVIDE ELECTRICAL POWER HANDHOLE ENCLOSURE, AND CONDUIT CONNECTION INTO BASE OF POLE; PROVIDE SWITCHED FEEDER CONNECTIONS; PROVIDE UNSWITCHED FEEDER CONNECTIONS TO MINI-POWER CENTER AT CAMERA NODE SITES.
9. AT CAMERA NODE SITES, PROVIDE TELECOMMUNICATIONS HANDHOLE ENCLOSURE, 3/4" GRSC RISER CONNECTION, AND FIBER OPTIC CONNECTIONS TO CAMERA NODE ENCLOSURE.



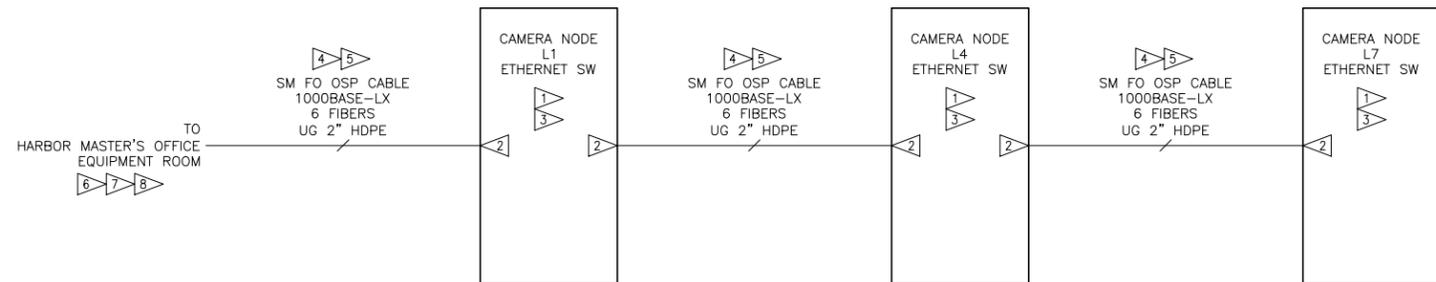
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City of Homer
 DWD UPLANDS

No.	Description	Date

Drawn By: SL Check By: JD
 Date: JANUARY 22, 2016
 Project: BID DOCUMENTS
 Project No: 1841.05
 SHEET TITLE:

ELECTROLIER AND CAMERA NODE ELEVATIONS



1 CAMERA AREA NETWORK DIAGRAM

Scale: NA

NOTES

1. PROVIDE EACH CCTV CAMERA NODE WITH ETHERNET SWITCH, CISCO IE-3000-4TC, FOUR 10/100 ETHERNET PORTS, TWO UPLINK PORTS, AND PWR-IE3000-AC POWER SUPPLY.
2. PROVIDE ETHERNET SWITCH WITH SFP MODULE; CISCO GLC-LX-SM-RGD, 1000BASE-LX/LH, 1310 NANOMETER, INDUSTRIAL OPERATING TEMPERATURE RANGE, TYPE-LC DUPLEX CONNECTOR.
3. PROVIDE CONFIGURATION OF CCTV CAMERA NODE ETHERNET SWITCHES; COORDINATE WITH CITY OF HOMER IT DEPARTMENT FOR IP ADDRESS ASSIGNMENTS, PORT ASSIGNMENTS, AND ANY SPECIAL PORT CONFIGURATIONS.
4. PROVIDE UNDERGROUND (UG) TELECOMMUNICATIONS 2" HDPE PATHWAYS IN ACCORDANCE WITH THE ELECTRICAL PLAN.
5. PROVIDE SINGLE MODE FIBER OPTIC CABLING BETWEEN CAMERA NODES, AND BETWEEN CAMERA NODE L1 AND THE HARBORMASTER'S ELECTRICAL EQUIPMENT ROOM TELECOMMUNICATIONS BACKBOARD; SUPERIOR ESSEX UNIVERSAL DROP FTTP SERIES 5700, ALL DIELECTRIC, (6) SINGLE MODE FIBERS, PFM GEL FILLED LOOSE BUFFER TUBE, CONVENTIONAL GLASS CHEMISTRY.
6. AT THE HARBORMASTER'S OFFICE, IN THE EQUIPMENT ROOM, ON THE EXISTING TELECOMMUNICATIONS BACKBOARD, PROVIDE FIBER OPTIC PATCH PANEL, CORNING SPH-01P SINGLE-PANEL HOUSING (SPH) WITH CLOSET CONNECTOR HOUSING (CCH), CORNING CCH-CPO6-6C, (6) SINGLE MODE TYPE-SC SIMPLEX ADAPTERS WITH CERAMIC INSERTS.
7. PROVIDE TERMINATION OF ALL FIBERS, CORNING UNICAM CONNECTORS, HIGH-PERFORMANCE SINGLE-MODE TYPE-SC NO-EPOXY/NO-POLISH, SINGLE-MODE CONNECTOR HOUSINGS SHALL BE THE COLOR BLUE.
8. PROVIDE TYPE-SC TO TYPE-SC PASS-THROUGH CROSS CONNECT JUMPERS BETWEEN PATCH PANEL AND EXISTING CITY OF HOMER ETHERNET SWITCH; COORDINATE WITH THE CITY OF HOMER IT DEPARTMENT FOR SPECIFIC ETHERNET SWITCH PORT ASSIGNMENTS.



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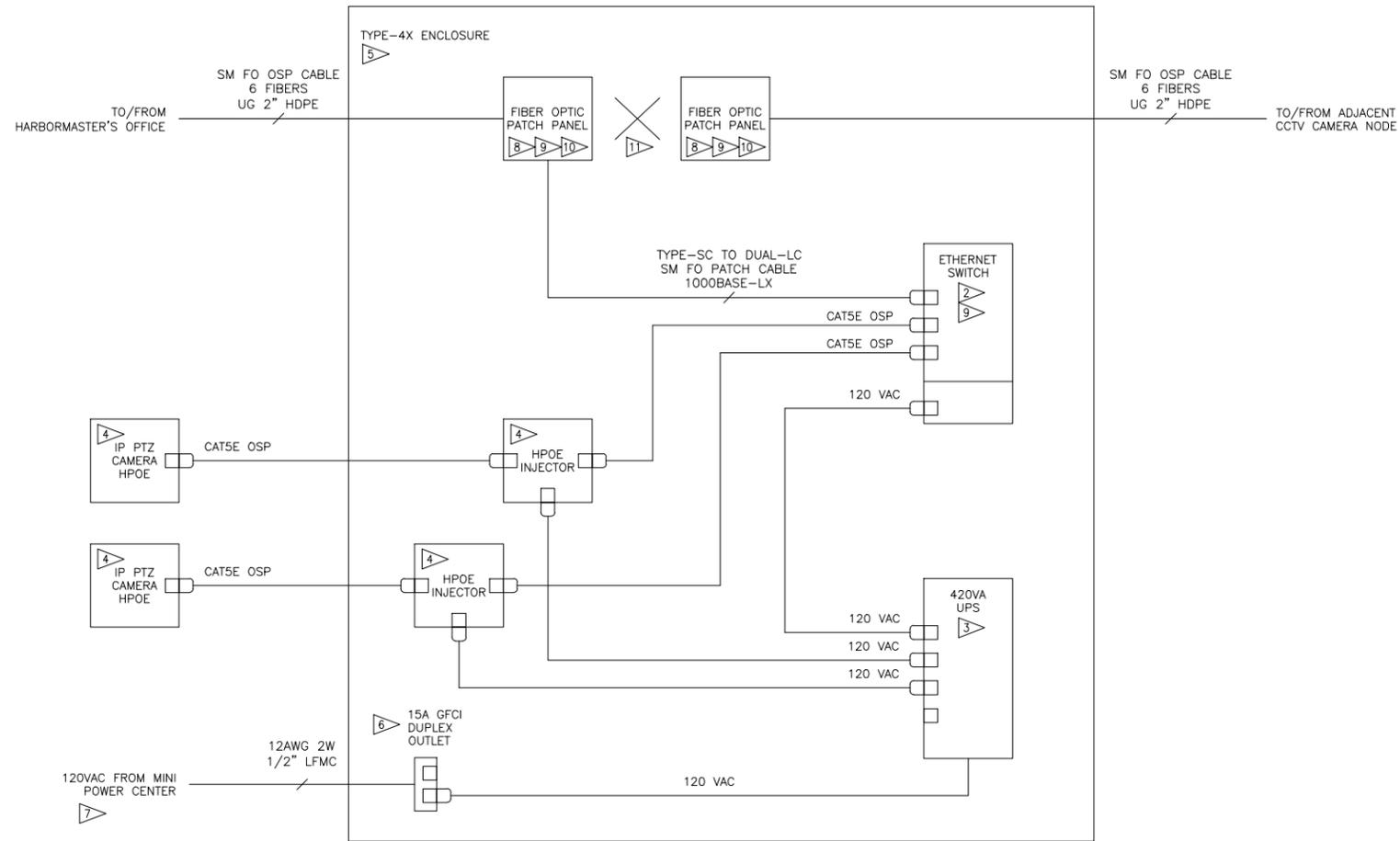
SHEET TITLE:
 CAMERA AREA NETWORK DIAGRAM

SHEET NO:
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E1.6

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Plotted 1/22/2016 6:46 PM by Steven Lewis



1 CAMERA NODE BLOCK DIAGRAM

Scale: NA

NOTES

- CONDUIT PATHWAYS AND UNUSED PORTS ARE NOT DEPICTED. REFER TO THE CAMERA AREA NETWORK DIAGRAM FOR FIBER OPTIC CONNECTIVITY.
- PROVIDE ETHERNET SWITCH IN ACCORDANCE WITH THE CAMERA AREA NETWORK DIAGRAM.
- PROVIDE UPS, APC SMART-UPS SC420, 260W, 420VA, LINE INTERACTIVE TOPOLOGY, STEPPED APPROXIMATION TO SINWAVE, 120VAC NOMINAL OUTPUT VOLTAGE, (4) NEMA 5-15R BATTERY-BACKED RECEPTACLES, SEALED LEAD-ACID BATTERY, 6' CORD WITH NEMA 5-15P PLUG, 6.6"HX4.7"WX14.5"D, 22 LB.
- PROVIDE PAN-TILT-ZOOM IP NETWORK CAMERA AND ASSOCIATED CAT5E OSP RATED CABLING, AXIS Q6045-E, FOR USE WITH 60 HZ POWER SYSTEMS, AUTO FOCUS, H.264 ENCODING, 1080P HIGH DEFINITION, AUTOMATIC DAY/NIGHT, OUTDOOR RATED ENCLOSURE, ARCTIC TEMPERATURE CONTROL, 36X ZOOM, IP66 8P8C CONNECTOR, INCLUDES 74W HPOE MIDSPAN POWER INJECTOR; BE ADVISED THE HARDWARE ON THIS CAMERA IS METRIC; OSP CAT5E CABLING SUPERIOR ESSEX BBDE OR EQUAL.
- PROVIDE TYPE-4X ENCLOSURE, HOFFMAN CSD24208SS6, 24"HX20"WX8"D, 316 STAINLESS STEEL, 1/4-TURN LATCHES; PROVIDE ENCLOSURE WITH CP2420 STEEL PAINTED MOUNTING PANEL.
- PROVIDE 15A GFCI DUPLEX OUTLET IN SINGLE GANG STEEL BOX, ON ENCLOSURE MOUNTING PANEL, IN LOWER LEFT-HAND CORNER.
- PROVIDE MINI-POWER CENTER IN ACCORDANCE WITH THE POWER SYSTEM ONE-LINE DIAGRAM.
- PROVIDE FIBER OPTIC PATCH PANEL, CORNING SPH-01P SINGLE-PANEL HOUSING (SPH) WITH CORNING SHP-DIN-KIT DIN RAIL MOUNT; PROVIDE CLOSET CONNECTOR HOUSING (CCH), CORNING CCH-CP06-6C, (6) SINGLE MODE TYPE-SC SIMPLEX ADAPTERS WITH CERAMIC INSERTS.
- PROVIDE COMMON DIN RAIL FOR MOUNTING OF ETHERNET SWITCH, ETHERNET SWITCH POWER SUPPLY, AND FIBER OPTIC SINGLE-PANEL HOUSING(S).
- PROVIDE TERMINATION OF ALL FIBERS, CORNING UNICAM CONNECTORS, HIGH-PERFORMANCE SINGLE-MODE TYPE-SC NO-EPOXY/NO-POLISH, SINGLE-MODE CONNECTOR HOUSINGS SHALL BE THE COLOR BLUE.
- PROVIDE TYPE-SC TO TYPE-SC SINGLE-MODE FIBER OPTIC PASS-THROUGH CROSS-CONNECT JUMPERS.



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DWD UPLANDS

No.	Description	Date

Drawn By: SL
 Checked By: JD
 Date: JANUARY 22, 2016
 From: BID DOCUMENTS
 Project No: 1841.05
 SHEET TITLE: CAMERA NODE BLOCK DIAGRAM

SHEET NO:
 32OF 35
E1.7



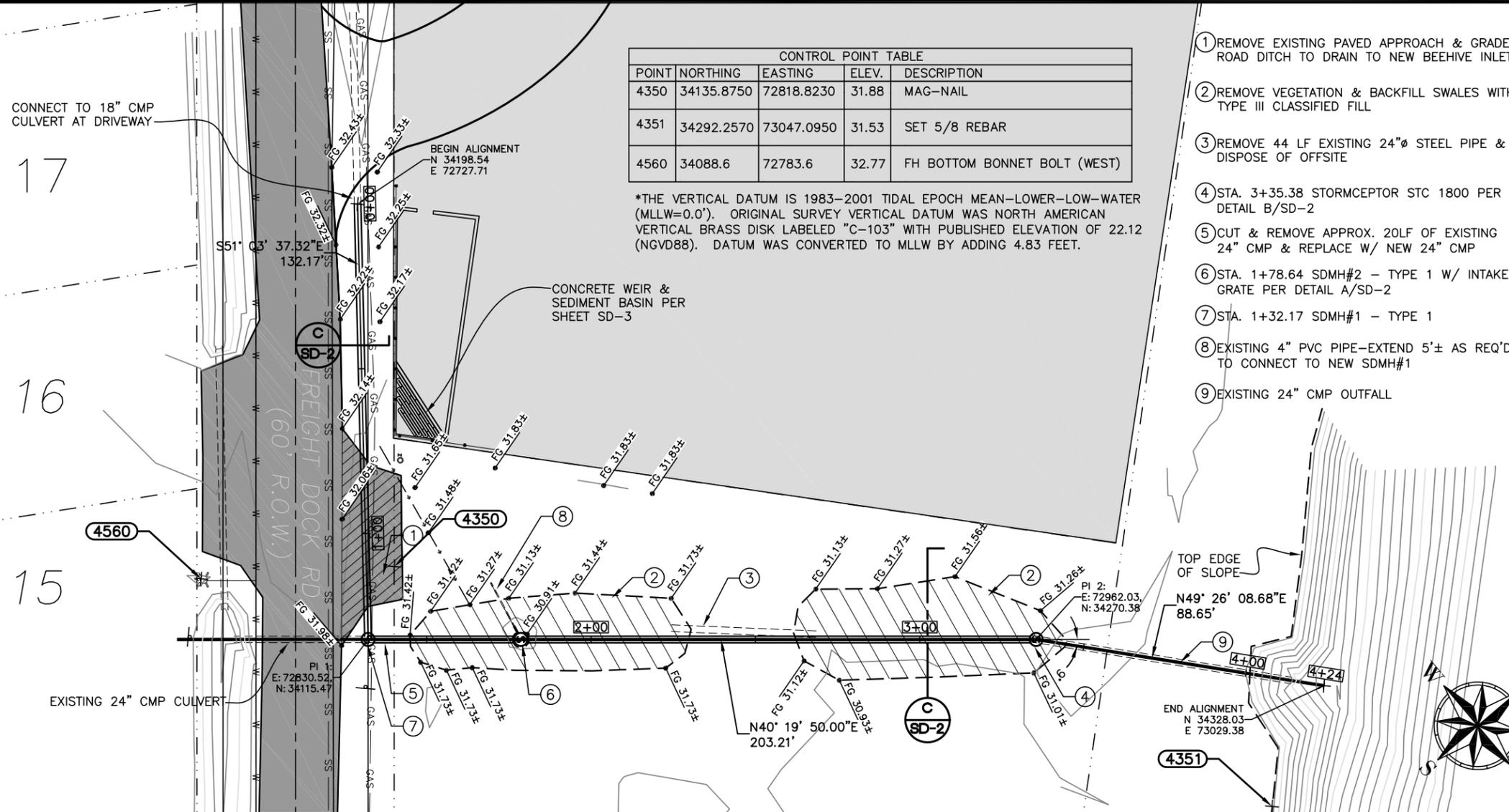
POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
4350	34135.8750	72818.8230	31.88	MAG-NAIL
4351	34292.2570	73047.0950	31.53	SET 5/8 REBAR
4560	34088.6	72783.6	32.77	FH BOTTOM BONNET BOLT (WEST)

*THE VERTICAL DATUM IS 1983-2001 TIDAL EPOCH MEAN-LOWER-LOW-WATER (MLLW=0.0'). ORIGINAL SURVEY VERTICAL DATUM WAS NORTH AMERICAN VERTICAL BRASS DISK LABELED "C-103" WITH PUBLISHED ELEVATION OF 22.12 (NGVD88). DATUM WAS CONVERTED TO MLLW BY ADDING 4.83 FEET.

- REMOVE EXISTING PAVED APPROACH & GRADE ROAD DITCH TO DRAIN TO NEW BEEHIVE INLET
- REMOVE VEGETATION & BACKFILL SWALES WITH TYPE III CLASSIFIED FILL
- REMOVE 44 LF EXISTING 24"Ø STEEL PIPE & DISPOSE OF OFFSITE
- STA. 3+35.38 STORMCEPTOR STC 1800 PER DETAIL B/SD-2
- CUT & REMOVE APPROX. 20LF OF EXISTING 24" CMP & REPLACE W/ NEW 24" CMP
- STA. 1+78.64 SDMH#2 - TYPE 1 W/ INTAKE GRATE PER DETAIL A/SD-2
- STA. 1+32.17 SDMH#1 - TYPE 1
- EXISTING 4" PVC PIPE-EXTEND 5'± AS REQ'D TO CONNECT TO NEW SDMH#1
- EXISTING 24" CMP OUTFALL

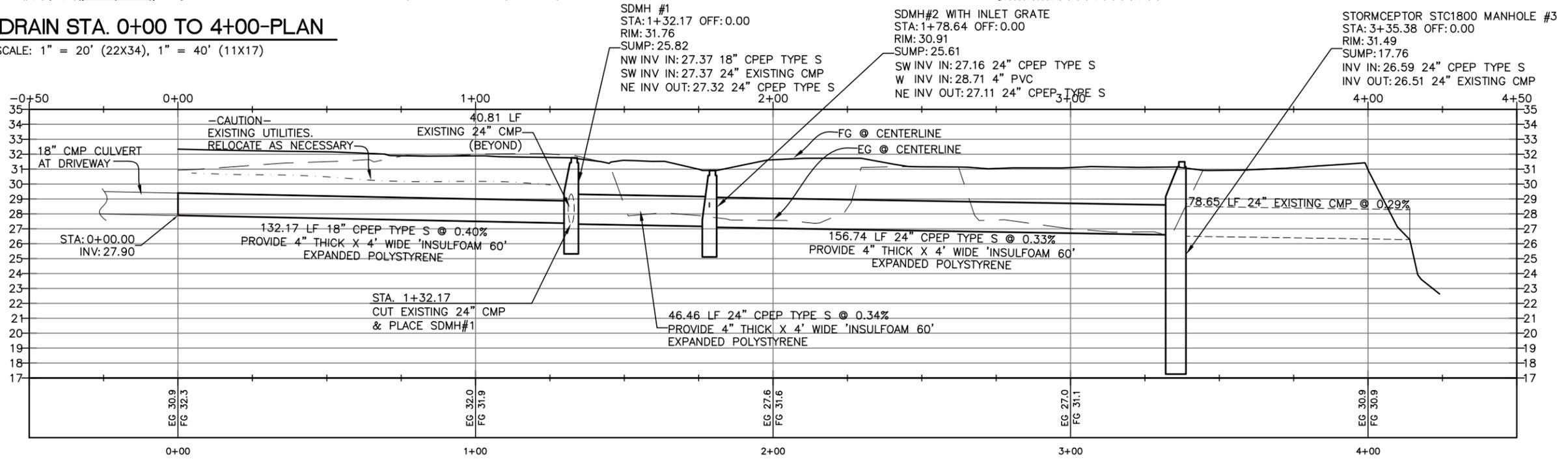
LEGEND

- R.O.W.
- PROPERTY LINE
- CENTERLINE R.O.W.
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- FENCE
- W --- W --- UTILITY - WATER (EXISTING)
- SS --- UTILITY - SANITARY SEWER (EXISTING)
- GAS --- UTILITY - GAS (EXISTING)
- CULVERT (EXISTING)
- CULVERT (PROPOSED)
- SWALE (PROPOSED)
- EXISTING PVC VENT
- ACS PEDESTAL
- GATE VALVE (EXISTING)
- GCI/HEA BOX
- HYDRANT
- MANHOLE
- SIGN
- ASPHALT PAVEMENT (EXISTING)
- ▨ ASPHALT PAVEMENT (TO BE REMOVED)
- CONCRETE (EXISTING)
- ▨ GRAVEL FILL AREA



A STORM DRAIN STA. 0+00 TO 4+00-PLAN

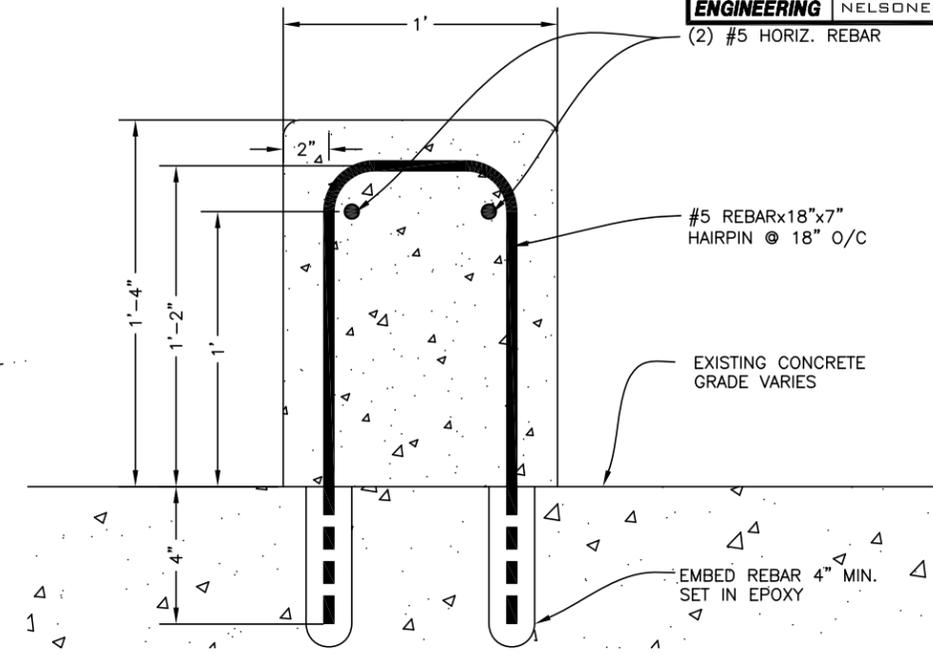
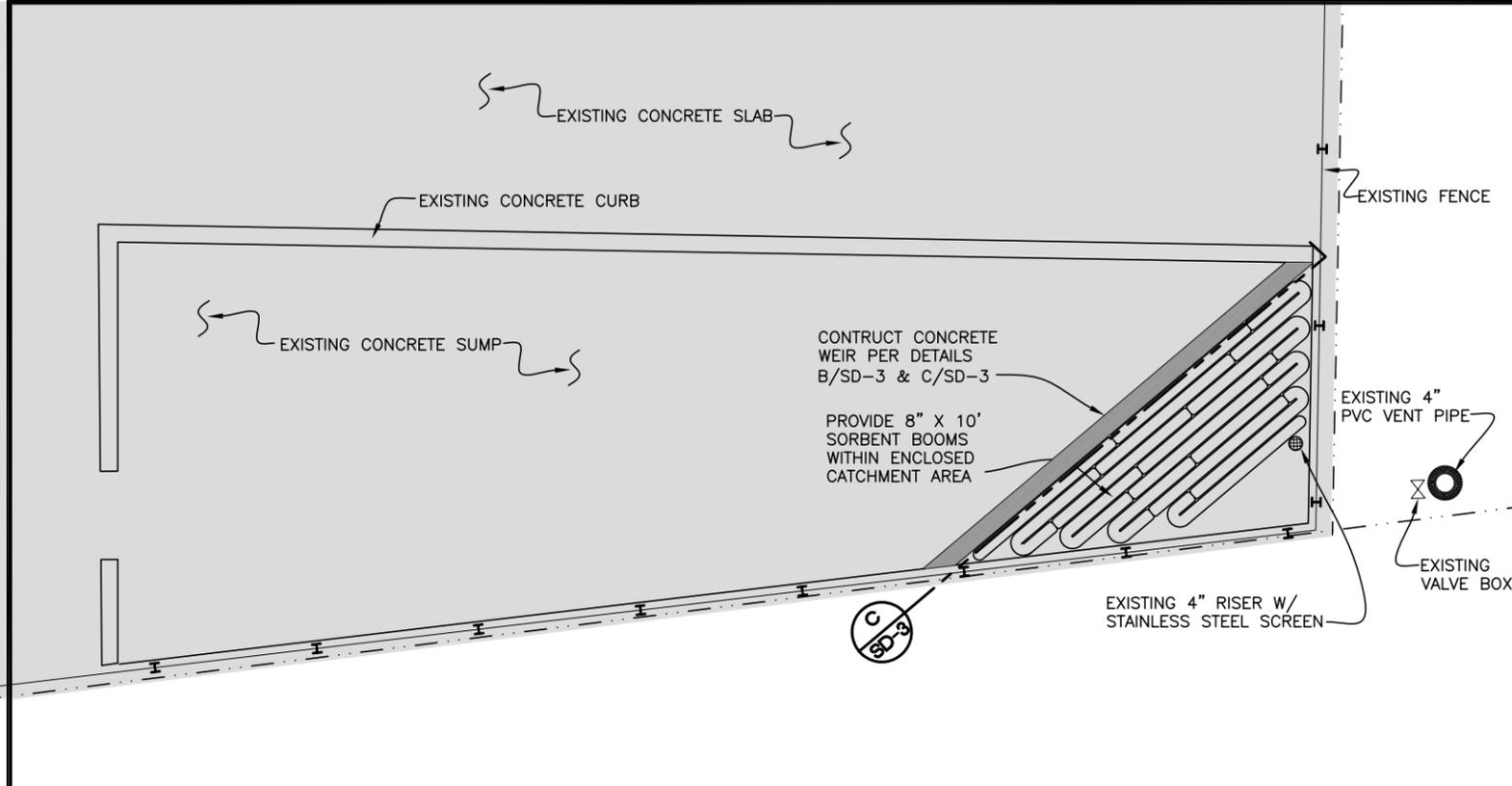
SD-1 HORIZONTAL SCALE: 1" = 20' (22X34), 1" = 40' (11X17)



B STORM DRAIN STA. 0+00 TO 4+00-PROFILE

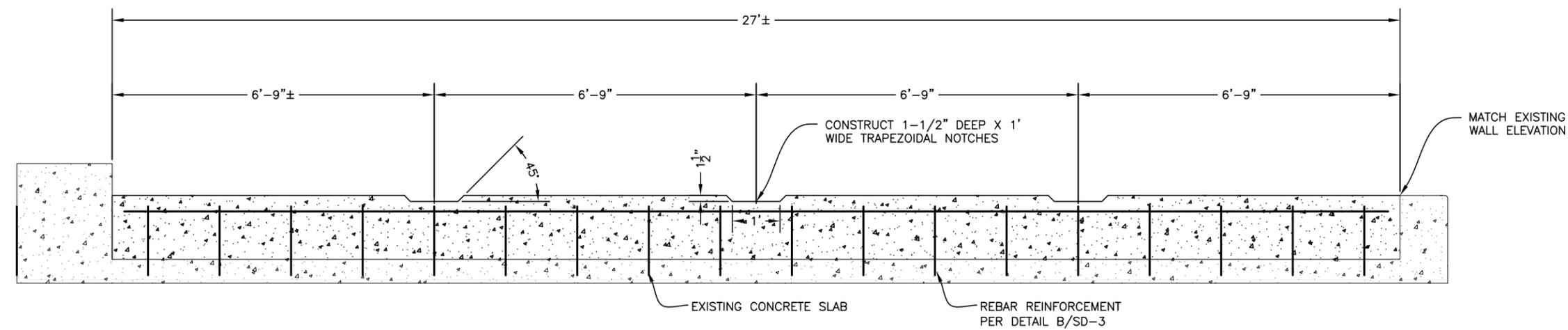
SD-1 HORIZONTAL SCALE: 1" = 20' (22X34), 1" = 40' (11X17); VERTICAL SCALE: 1" = 4' (22X34), 1" = 8' (11X17)

Z:\aa\Projects\2013\1353 Spf Chp Pad Drainage Improvements\Nelson Engineering\Drawings\Chp Pad 012216.dwg
 Plotted 1/21/2016 3:37 PM by mderaeve



A CHIP PAD CATCHMENT AREA
 SD-3 GRAPHIC SCALE: 1" = 5' (22X34), 1" = 10' (11X17)

B CONCRETE WEIR SECTION
 SD-3 GRAPHIC SCALE: 3" = 1' (22X34); 1-1/2" = 1' (11X17)



C SECTION AT CONCRETE WEIR
 SD-3 GRAPHIC SCALE: 3/4" = 1' (22X34), 3/8" = 1' (11X17)

No.	Description	Date

Drawn By: MZD/CAM
 Checked By: WJN
 Date: JANUARY 22, 2016
 Project: BID DOCUMENTS
 Project No: 1353
 SHEET TITLE: STORM DRAIN DETAILS

SHEET NO: 3 OF 3
SD-3

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